

03.12-01/19/95-01505

~~03.12-01/19/95-01505~~  
FINAL

**REMEDIAL INVESTIGATION REPORT  
OPERABLE UNIT NO. 7  
(SITES 1, 28, AND 30)**

**MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA**

**CONTRACT TASK ORDER 0231**

**JANUARY 19, 1995**

*Prepared For:*

**DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES  
ENGINEERING COMMAND  
*Norfolk, Virginia***

*Under:*

**LANTDIV CLEAN Program  
Contract N62470-89-D-4814**

*Prepared by:*

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**APPENDIX A**  
**TEST BORING RECORDS**

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# TEST BORING LOG LEGEND

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

**SITE 1**

---

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FLUDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-5801  
 COORDINATES: EAST: 2502106.90 NORTH: 333090.30  
 ELEVATION: SURFACE: 23.95 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |              |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|--------------|--------------------------------|------|
| RIG: <u>B-57</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>3-29-94</u> | <u>19</u>     | <u>SUNNY</u> | <u>17</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: BACKGROUND (BG) HNU = 0.3 ppm

| DRILL RECORD |              |                                      |                                     |                          |           |   | VISUAL DESCRIPTION |                     |   |              |           |
|--------------|--------------|--------------------------------------|-------------------------------------|--------------------------|-----------|---|--------------------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type No. (N = No Samp.) | SPT Blows Per 0.5'<br>RQD (Ft. & %) | Lab. Class.<br>Pen. Rate | PID (ppm) | Classification (Grain Size, Principal Constituents, Etc.) | Color              | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |                                      |                                     |                          |           |   |                    |                     |   |              |           |
| 1            |              |                                      |                                     |                          |           | 1' FILL SAND-FINE AND GRAVEL-F                            |                    |                     |   |              |           |
| 2            | LAB          | S-1                                  | $\frac{1.41}{2}$<br>5               | 01                       | BG        | SAND-FINE TRACE SILT                                      | GRAY               | MED DENSE           | DAMP  |              |           |
| 3            |              |                                      | 71%<br>5                            |                          |           |   | 10" BROWN          |                     |   |              |           |
| 4            |              | S-2                                  | $\frac{1.35}{2}$<br>3               |                          | BG        | SAND-FINE LITTLE SILT                                     | BROWN              | LOOSE               | MOIST   |              |           |
| 5            |              |                                      | 67%<br>5                            |                          |           |   |                    |                     |   |              |           |
| 6            |              | S-3                                  | $\frac{1.5}{2}$<br>4                |                          | BG        | SAND-FINE LITTLE SILT                                     | BROWN              | LOOSE               | MOIST   |              |           |
| 7            |              |                                      | 75%<br>5                            |                          |           |   |                    |                     |   |              |           |
| 8            | LAB          | S-4                                  | $\frac{1.08}{2}$<br>4               | 04                       | BG        | SAND-FINE LITTLE SILT                                     | BROWN<br>+ WHITE   | LOOSE               | MOIST   |              |           |
| 9            |              |                                      | 59%<br>7                            |                          |           |   |                    |                     |   |              |           |
| 10           |              | S-5                                  | $\frac{1.69}{2}$<br>3               |                          | BG        | SAND-FINE TRACE SILT                                      | BROWN              | MED DENSE           | MOIST   |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-5801 SHEET 1 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FCLPA RIIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-15-5801

| 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 |           |
|              |      | S-5                     | 79%              | 7                  |             | CONTINUED   |   |                     |   |   |           |
| 11           |      |                         | $\frac{1.41}{2}$ | 5                  |             | SAND-FINE LITTLE SILT                                     | WHITE   | MED DENSE           | MOIST   |   |           |
| 12           |      | S-6                     |                  | 6                  |             |   | BLACK BANDED  |                     |   |   |           |
| 13           |      |                         | 71%              | 11                 |             |   |   |                     |   |   |           |
| 14           |      | S-7                     | $\frac{1.67}{2}$ | 6                  |             | SAND-FINE LITTLE SILT                                     | BROWN   | MED DENSE           | MOIST   |   |           |
| 15           |      |                         |                  | 7                  |             |   |   |                     |   |   |           |
| 16           |      | S-8                     | 83%              | 13                 |             |   |   |                     |   |   |           |
| 16           | LAB  | S-8                     | $\frac{1.5}{2}$  | 7                  | 08          | SAND-FINE LITTLE SILT                                     | BROWN   | MED DENSE           | MOIST   |   |           |
| 17           |      |                         | 75%              | 14                 |             |   |   |                     |   |   |           |
| 17           |      |                         | $\frac{1.41}{2}$ | 9                  |             | WATER @ 17'   |   |                     |   |   |           |
| 18           |      | S-9                     |                  | 7                  |             | SAND-FINE TRACE SILT                                      | WHITE   | MED DENSE           | WET   |   |           |
| 18           |      |                         |                  | 8                  |             |   |   |                     |   |   |           |
| 19           |      |                         | 71%              | 10                 |             |   |   |                     |   |   | 4.95      |
| 19           |      |                         |                  |                    |             | END OF BORING 19'   |   |                     |   |   |           |
| 0            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 1            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 2            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 3            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 4            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 5            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 6            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 7            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 8            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 9            |      |                         |                  |                    |             |   |   |                     |   |   |           |
| 0            |      |                         |                  |                    |             |   |   |                     |   |   |           |

DRILLING CO.: EMTC

DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-15-5801 SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-15-SB02

COORDINATES: EAST: 2502157.0100

NORTH: 332945.5710

ELEVATION: SURFACE: 21.2680

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

|              |             |        |        |             |        |               |                       |                  |      |
|--------------|-------------|--------|--------|-------------|--------|---------------|-----------------------|------------------|------|
| RIG: # 73    |             |        |        |             |        |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4/4"ID |             | 4-6-94 | 0-17'         | overcast, mild (60's) | 15.0             |      |
| LENGTH       | 2.0'        |        | 5.0'   |             |        |               |                       |                  |      |
| TYPE         | STD.        |        | HSA    |             |        |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |        |             |        |               |                       |                  |      |
| FALL         | 30"         |        |        |             |        |               |                       |                  |      |
| STICK UP     |             |        |        |             |        |               |                       |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. Hsuu background is .4 ppm

**SAMPLE TYPE**

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | N                   | -                  | -          |              | -         | NO SAMPLE   |           |
| 2           | S-1                 | .9<br>2.0          | 22<br>50   | 01           | BG        | SILTY SAND, fine grained. Brown, dense, damp.   |           |
| 3           |                     | 45%                | 2          |              |           |   |           |
| 4           | S-2                 | 1.6<br>2.0         | 16<br>8    |              | BG        |   |           |
| 5           |                     | 80%                | 6          |              |           |   |           |
| 6           | S-3                 | 1.6<br>2.0         | 4<br>5     |              | BG        | SAND, fine grained w/ trace silt. Brown to light brown, loose to medium dense, damp. Oxidation streaks (orange) from 9' (bgs) |           |
| 7           |                     | 80%                | 6          |              |           |   |           |
| 8           | S-4                 | 1.4<br>2.0         | 3<br>6     | 04           | BG        |   |           |
| 9           |                     | 70%                | 6          |              |           |   |           |
|             | S-5                 | 1.9<br>2.0         | 3<br>5     |              | BG        |   |           |
|             |                     | 95%                | 5          |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 1-15-SB02

SHEET 1 OF 2



# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-15-S802

| 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            |                      |                | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |                |  |           |   |           |
| N = No Sample   |                     |                      |                |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11.0            | S-5                 | 95%                  | 6<br>8         |  | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/ trace silt. Brown to dark brown to light brown, medium dense to dense, damp to moist to wet. Oxidation streaks (orange) to 15' (bgs).<br><br>End of Boring TD 17.0' |           |
| 12.0            | S-6                 | 1.5<br>2.0<br>75%    | 7<br>12<br>15  |  | BG        |   |           |
| 13.0            |                     |                      | 9<br>12        |  |           |   |           |
| 14.0            | S-7                 | 1.5<br>2.0<br>75%    | 22             | 07   | BG        |   |           |
| 15.0            |                     |                      | 37             |  |           |   |           |
| 16.0            | S-8                 | 1.0<br>2.0<br>50%    | 12<br>16<br>28 |  | BG        |   |           |
| 17.0            |                     |                      | 32             |  |           |   |           |
| 18.0            |                     |                      |                |  |           |   |           |
| 19.0            |                     |                      |                |  |           |   |           |
| 20.0            |                     |                      |                |  |           |   |           |
| 21.0            |                     |                      |                |  |           |   |           |
| 22.0            |                     |                      |                |  |           |   |           |
| 23.0            |                     |                      |                |  |           |   |           |
| 24.0            |                     |                      |                |  |           |   |           |
| 25.0            |                     |                      |                |  |           |   |           |
| 26.0            |                     |                      |                |  |           |   |           |
| 27.0            |                     |                      |                |  |           |   |           |
| 28.0            |                     |                      |                |  |           |   |           |
| 29.0            |                     |                      |                |  |           |   |           |
|                 |                     |                      |                |  |           | Match to Sheet 3  |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 1-15-S802

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-S-SB03

COORDINATES: EAST: 2502136.88

NORTH: 332743.90

ELEVATION: SURFACE: 20.90

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

|                  |             |        |           |             |         |               |                    |                  |      |
|------------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: MOBILE B-57 |             |        |           |             |         |               |                    |                  |      |
|                  | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | 1-3/8" ID   |        | 4 1/4" ID |             | 3-30-94 | 0.0-17.0      | PARTLY CLOUDY ±60° | 15.0'            |      |
| LENGTH           | 2.0'        |        | 5.0       |             |         |               |                    |                  |      |
| TYPE             | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.       | 140#        |        |           |             |         |               |                    |                  |      |
| FALL             | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP         |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. HNu background = 0.2

|  |   |
|--|---|
| <p><b>SAMPLE TYPE</b></p> <p>S = Split Spoon    A = Auger<br/>         T = Shelby Tube    W = Wash<br/>         R = Air Rotary    C = Core<br/>         D = Denison    P = Piston<br/>         N = No Sample</p> | <p><b>DEFINITIONS</b></p> <p>SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br/>         RQD = Rock Quality Designation (%)<br/>         PID = Photoionization Detector</p> |
|--|---|

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     |                    |            |              |           | SAND fine grained, some crushed stone AUGERED TO 1.6'  |           |
| 2           | S-1                 | 1.0 / 2.0          | 8 / 11     | 01           | EG        | SAND fine grained, trace silt, light brown to brown, medium dense, damp                          |           |
| 3           |                     | 50%                | 11         |              |           | SILT, trace sand, trace clay from 2.5'-3.0'  |           |
| 4           | S-2                 | 2.0 / 2.0          | 5 / 5      |              | EG        | SAND, fine grained, little silt, brown, medium dense, damp                                       |           |
| 5           |                     | 100%               | 8          |              |           |  |           |
| 6           | S-3                 | 2.0 / 2.0          | 5 / 6      | 03           | EG        | SAND, fine grained, little silt, brown to white, medium dense, damp                              |           |
| 7           |                     | 100%               | 8          |              |           |  |           |
| 8           | S-4                 | 1.3 / 2.0          | 4 / 5      |              | EG        | SAND, fine grained, little silt, orangish brown, medium dense, damp                              |           |
| 9           |                     | 65%                | 7          |              |           |  |           |
|             | S-5                 | 1.6 / 2.0          | 6 / 7      |              | EG        | SAND, fine grained, little silt, orangish brown to light brown to dark brown, medium dense, damp |           |
|             |                     | 80%                |            |              |           |  |           |

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-S-SB03

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-S-SB03

| SAMPLE TYPE      |                     |                      |                    |              |           | DEFINITIONS   |  | Elevation |
|------------------|---------------------|----------------------|--------------------|--------------|-----------|---|--|-----------|
| Depth (Ft.)      | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD         | Samp. Desig. | PID (ppm) | Visual Description  |  |           |
| 11.0             |                     |                      | 11<br>8            |              |           | Continued from Sheet 1  |  |           |
| 12.0             | S-6                 | 1.1<br>2.0<br>55%    | 7<br>7<br>11<br>11 | 00           | EG        | SAND, fine grained, little silt, dark brown to white, medium dense, damp to moist |  |           |
| 13.0             |                     | 0.0<br>2.0           | 4<br>5             |              |           | NO RECOVERY<br>BOTTOM OF SPLIT SPOON WET  |  |           |
| 14.0             | S-7                 | 0.0<br>2.0           | 8<br>8             |              |           |   |  |           |
| 15.0             |                     | 0.0<br>2.0           | 8<br>5<br>7        |              |           | SAND, fine grained, little silt, white, medium dense, wet                         |  |           |
| 16.0             | S-8                 | 1.1<br>2.0<br>55%    | 5<br>5<br>7<br>10  |              | EG        |   |  | 3.90      |
| 17.0             |                     |                      |                    |              |           | END OF BORING<br>TOTAL DEPTH = 17.0'  |  |           |
| 18               |                     |                      |                    |              |           |   |  |           |
| 19               |                     |                      |                    |              |           |   |  |           |
| 20               |                     |                      |                    |              |           |   |  |           |
| 21               |                     |                      |                    |              |           |   |  |           |
| 22               |                     |                      |                    |              |           |   |  |           |
| 23               |                     |                      |                    |              |           |   |  |           |
| 24               |                     |                      |                    |              |           |   |  |           |
| 25               |                     |                      |                    |              |           |   |  |           |
| 26               |                     |                      |                    |              |           |   |  |           |
| 27               |                     |                      |                    |              |           |   |  |           |
| 28               |                     |                      |                    |              |           |   |  |           |
| 29               |                     |                      |                    |              |           |   |  |           |
| Match to Sheet 3 |                     |                      |                    |              |           |   |  |           |

DRILLING CO.: EMTC

DRILLER: J. MARCH

BAKER REP.: MARTIN G. TAUSE

BORING NO.: 1-S-SB03

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-58-04  
 COORDINATES: EAST: 2502128.80 NORTH: 332525.21  
 ELEVATION: SURFACE: 21.84 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |               |               |              |                  |      |
|------------------|------------------|--------|----------------|-------------|---------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                |             |               |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS         | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3/4" ID</u> |             | <u>4-5-94</u> | <u>15</u>     | <u>SUNNY</u> | <u>15</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: BACKGROUND (BG) HNU ≈ 0.2 PPM

| 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   |                     |                    |               |                          |           |  |  |  |          |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD    | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description   |  |  | Elevatic |
| 1               |                     |                    |               |                          |           | 1' Fill - SAND-FINE AND GRAVEL-F                             |  |  |          |
| 2               | LAB 5-1             | 1.25<br>2          | 8<br>18<br>14 |                          | BG        | CLAY SOME SAND-FINE<br>DRY. BLACK. DENSE                     |  |  |          |
| 3               |                     | 63%                | 15            |                          |           |  |  |  |          |
| 4               | 5-2                 | 1.33<br>2          | 8<br>8<br>9   |                          | BG        | SAND-FINE AND SILT<br>DRY. LT. GRAY. MED DENSE               |  |  |          |
| 5               |                     | 67%                | 10            |                          |           |  |  |  |          |
| 6               | 5-3                 | 1.63<br>2          | 6<br>6<br>9   |                          | BG        | SAND-FINE TRACE SILT<br>DRY. TAN. MED DENSE                  |  |  |          |
| 7               |                     | 83%                | 9             |                          |           |  |  |  |          |
| 8               | LAB 5-4             | 1.63<br>2          | 4<br>5<br>6   |                          | BG        | SAND-FINE LITTLE SILT<br>DRY. ORANGE. MED DENSE              |  |  |          |
| 9               |                     | 83%                | 6             |                          |           |  |  |  |          |
| 10              | 5-5                 | 1.60<br>2          | 6<br>7        |                          | BG        | SAND-FINE TRACE SILT<br>DAMP. BROWN AND WHITE<br>MED DENSE   |  |  |          |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-58-04 SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: SITE 1 - FLIDA RIFES MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-SB-04

| 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   |                     |                      |            |                          |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description   | Elevation |
|                 |                     |                      | 14         |                          |           | CONTINUED  |           |
| 11              | S-5                 | 79%                  | 14         |                          | BB        |  |           |
| 12              | LAB S-6             | $\frac{1.60}{2}$     | 7          |                          |           | SAND-FINE TRACE SILT   |           |
|                 |                     |                      | 9          |                          |           | DAMP. BROWN. MED DENSE                                       |           |
| 13              |                     | 79%                  | 10         | OO                       | BB        |  |           |
| 14              | S-7                 | $\frac{1.6}{2}$      | 12         |                          |           | SAND-FINE TRACE SILT   |           |
|                 |                     |                      | 11         |                          |           | MOIST TO WET. BROWN  |           |
|                 |                     |                      | 10         |                          | BB        | MED DENSE  |           |
| 15              |                     | 88%                  | 13         |                          |           | WATER @ 15'  | 6.84      |
|                 |                     |                      |            |                          |           | END OF BORING 15'  |           |
| 16              |                     |                      |            |                          |           |  |           |
| 17              |                     |                      |            |                          |           |  |           |
| 18              |                     |                      |            |                          |           |  |           |
| 19              |                     |                      |            |                          |           |  |           |
| 20              |                     |                      |            |                          |           |  |           |
| 21              |                     |                      |            |                          |           |  |           |
| 22              |                     |                      |            |                          |           |  |           |
| 23              |                     |                      |            |                          |           |  |           |
| 24              |                     |                      |            |                          |           |  |           |
| 25              |                     |                      |            |                          |           |  |           |
| 26              |                     |                      |            |                          |           |  |           |
| 27              |                     |                      |            |                          |           |  |           |
| 28              |                     |                      |            |                          |           |  |           |
| 29              |                     |                      |            |                          |           |  |           |
| 30              |                     |                      |            |                          |           |  |           |

DRILLING CO.: EMTL

DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-SB-04

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-S-SB05

COORDINATES: EAST: 2502098.63

NORTH: 332369.54

ELEVATION: SURFACE: 23.71

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

|                  |             |        |         |             |         |               |                   |                  |      |
|------------------|-------------|--------|---------|-------------|---------|---------------|-------------------|------------------|------|
| RIG: MOBILE B-61 |             |        |         |             | DATE    | PROGRESS (FT) | WEATHER           | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | 3-30-94 | 0.0-19.0      | PARTLY SUNNY 170° | 18.0             |      |
| LENGTH           | 2.0'        |        | 3/4" ID |             |         |               |                   |                  |      |
| TYPE             | STD.        |        | 5.0'    |             |         |               |                   |                  |      |
| HAMMER WT.       | 140#        |        | HSA     |             |         |               |                   |                  |      |
| FALL             | 30"         |        |         |             |         |               |                   |                  |      |
| STICK UP         |             |        |         |             |         |               |                   |                  |      |

REMARKS: Boring sampled to 19.0' and grouted to surface. HNU BG = 0.4 ppm

**SAMPLE TYPE**

S = Split Spoon      A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary      C = Core  
 D = Denison        P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           |                     |                    |            |              |           | SAND, fine grained, and crushed stone, brown, damp (AUGERED 0.0' TO 1.0')                 |           |
| 2           | S-1                 | 1.1<br>2.0         | 16<br>23   | 01           | BG        | SAND, fine grained, some silt, brown, dense, damp   |           |
| 3           |                     | 55%                | 17         |              |           |   |           |
| 4           | S-2                 | 1.5<br>2.0         | 12<br>13   |              | BG        | SAND, fine grained, some silt, brown, medium dense, damp                                  |           |
| 5           |                     | 75%                | 15         |              |           |   |           |
| 6           | S-3                 | 1.3<br>2.0         | 7<br>10    |              | BG        | SAND, fine grained, trace silt, brown to light brown with white zones, medium dense, damp |           |
| 7           |                     | 65%                | 12         |              |           |   |           |
| 8           | S-4                 | 1.2<br>2.0         | 6<br>11    | 04           | BG        | SAND, fine grained, trace silt, white, medium dense, damp                                 |           |
| 9           |                     | 60%                | 13         |              |           |   |           |
|             | S-5                 | 1.5<br>2.0         | 6<br>8     |              | BG        | SAND, fine grained, trace silt, white, medium dense, damp                                 |           |
|             |                     | 75%                |            |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUTSE

BORING NO.: 1-S-SB05

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-S-SB05

| 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            |                           |                |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                           |                |              |           |   |           |
| N = No Sample   |                     |                           |                |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %)      | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11              |                     |                           | 8<br>10        |              |           | Continued from Sheet 1  |           |
| 12              | S-6                 | $\frac{1.4}{2.0}$<br>70%  | 7<br>9<br>10   |              | BG        | SAND, fine grained, trace silt, white, medium dense, damp   |           |
| 13              |                     |                           | 11             |              |           |   |           |
| 14              | S-7                 | $\frac{1.6}{2.0}$<br>80%  | 40<br>32<br>45 |              | BG        | SAND, fine grained, trace silt, white to yellowish brown, medium dense, damp  |           |
| 15              |                     |                           | 57             |              |           | DRIVE 3" OD SALT SPOON FROM 13.0'-15.0'   |           |
| 16              | S-8                 | $\frac{1.3}{2.0}$<br>65%  | 7<br>10<br>15  | OB           | BG        | SAND, fine grained, trace silt, white, medium dense, moist  |           |
| 17              |                     |                           | 21             |              |           |   |           |
| 18              | S-9                 | $\frac{2.0}{2.0}$<br>100% | 5<br>7<br>6    |              | BG        | SAND, fine grained, little silt, yellowish brown to orangish brown with gray mottling, medium dense, moist to wet. SILT seams present throughout. |           |
| 19              |                     |                           | 7              |              |           | END OF BORING<br>TOTAL DEPTH = 19.0'  | 4.71      |
| 20              |                     |                           |                |              |           |   |           |
| 21              |                     |                           |                |              |           |   |           |
| 22              |                     |                           |                |              |           |   |           |
| 23              |                     |                           |                |              |           |   |           |
| 24              |                     |                           |                |              |           |   |           |
| 25              |                     |                           |                |              |           |   |           |
| 26              |                     |                           |                |              |           |   |           |
| 27              |                     |                           |                |              |           |   |           |
| 28              |                     |                           |                |              |           |   |           |
| 29              |                     |                           |                |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-S-SB05

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 1 - FCLDA RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-5806  
 COORDINATES: EAST: 2502319.96 NORTH: 332332.57  
 ELEVATION: SURFACE: 25.61 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |               |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|---------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             | DATE          | PROGRESS (FT) | WEATHER      | 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>4-5-94</u> | <u>21</u>     | <u>SUNNY</u> | <u>18</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: BACKGROUND (BG) HNU ≈ 0.2 PPM

| 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   |                     |                    |            |                          |           |  |  |  |          |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description   |  |  | Elevatic |
| 1               |                     |                    |            |                          |           | 1' Fill - SAND-FINE AND GRAVEL - F                           |  |  |          |
| 2               | LAB S-1             | $\frac{1.25}{2}$   | 8          | 01                       | BG        | CLAY TRACE SAND-FINE<br>DRY. BROWN. STIFF                    |  |  |          |
| 3               |                     | 65%                | 8          |                          |           |  |  |  |          |
| 4               | S-2                 | $\frac{1.5}{2}$    | 6          |                          | BG        | SILT TRACE CLAY TRACE SAND-FINE<br>DRY. BROWN. MED DENSE     |  |  |          |
| 5               |                     | 75%                | 7          |                          |           |  |  |  |          |
| 6               | S-3                 | $\frac{1.41}{2}$   | 4          |                          | BG        | SILT SOME SAND-FINE<br>DAMP. BROWN. MED DENSE                |  |  |          |
| 7               |                     | 71%                | 8          |                          |           |  |  |  |          |
| 8               | LAB S-4             | $\frac{1.83}{2}$   | 6          | 04                       | BG        | SAND-FINE TRACE SILT<br>DAMP. ORANGE. MED. DENSE             |  |  |          |
| 9               |                     | 92%                | 10         |                          |           | 5" SAND-FINE. WHITE  |  |  |          |
| 10              | S-5                 | $\frac{1.41}{2}$   | 8          |                          | BG        | SAND-FINE TRACE SILT<br>DAMP. LT. BROWN. MED DENSE           |  |  |          |
|                 |                     |                    | 7          |                          |           |  |  |  |          |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-5806 SHEET 1 OF 2



# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-5806

| SAMPLE TYPE     |                     |                      |            |  |           | DEFINITIONS  |           |
|-----------------|---------------------|----------------------|------------|--|-----------|--|-----------|
| S = Split Spoon |                     | A = Auger            |            | SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') |           | RQD = Rock Quality Designation (%)                           |           |
| T = Shelby Tube |                     | W = Wash             |            | Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)    |           | Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis |           |
| 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   | Elevation |
|                 |                     |                      | 10         |  |           | CONTINUED  |           |
| 11              | S-5                 | 71%                  | 10         |  | BG        |  |           |
|                 |                     | 1.41<br>2            | 11         |  |           | SAND-FINE TRACE S+T  |           |
|                 |                     |                      | 14         |  |           | DAMP. WHITE, MED DENSE                                       |           |
| 12              | S-6                 |                      | 13         |  | BG        |  |           |
|                 |                     | 71%                  | 18         |  |           |  |           |
| 13              |                     | 1.60<br>2            | 10         |  |           | SAND-FINE TRACE S+T  |           |
|                 |                     |                      | 6          |  |           | DAMP. WHITE, MED DENSE                                       |           |
| 14              | S-7                 |                      | 14         |  | BG        |  |           |
|                 |                     | 79%                  | 16         |  |           |  |           |
| 15              |                     | 1.67<br>2            | 11         |  |           | SAND-FINE TRACE S+T  |           |
|                 |                     |                      | 14         |  |           | DAMP. WHITE, MED DENSE                                       |           |
| 16              | LAB S-8             | 83%                  | 15         | 08   | BG        |  |           |
|                 |                     |                      | 18         |  |           |  |           |
| 17              |                     | 1.67<br>2            | 7          |  |           | SAND-FINE TRACE S+T  |           |
|                 |                     |                      | 7          |  |           | MOIST. LT. GRAY  |           |
| 18              | S-9                 |                      | 9          |  | BG        | WATER @ 18'  |           |
|                 |                     | 83%                  | 11         |  |           | MOTTLED  |           |
|                 |                     |                      |            |  |           | MED DENSE  |           |
| 19              |                     | 2<br>2               | 2          |  |           | CLAY TRACE SAND-FINE   |           |
|                 |                     |                      | 3          |  |           | MOIST. TO WET.   |           |
| 20              | S-10                |                      | 4          |  | BG        | ORANGE.  |           |
|                 |                     | 100%                 | 5          |  |           | MED STIFF  |           |
| 21              |                     |                      |            |  |           | END OF BORING 21'  | 4.61      |
| 22              |                     |                      |            |  |           |  |           |
| 23              |                     |                      |            |  |           |  |           |
| 24              |                     |                      |            |  |           |  |           |
| 25              |                     |                      |            |  |           |  |           |
| 26              |                     |                      |            |  |           |  |           |
| 27              |                     |                      |            |  |           |  |           |
| 28              |                     |                      |            |  |           |  |           |
| 29              |                     |                      |            |  |           |  |           |
| 30              |                     |                      |            |  |           |  |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-5806 SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-B-5B07

COORDINATES: EAST: 2502262.6200

NORTH: 332490.8160

ELEVATION: SURFACE: 22.9

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

|                         |             |        |           |             |         |               |                           |                  |      |
|-------------------------|-------------|--------|-----------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: <u>MOBILE B-57</u> |             |        |           |             |         |               |                           |                  |      |
|                         | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)            | 1-3/8" ID   |        | 4 1/4" ID |             | 3-30-94 | 0.0-17.0      | <u>PARTLY CLOUDY 160°</u> | 15.0             |      |
| LENGTH                  | 2.0'        |        | 5.0'      |             |         |               |                           |                  |      |
| TYPE                    | STD.        |        | HSA       |             |         |               |                           |                  |      |
| HAMMER WT.              | 140#        |        |           |             |         |               |                           |                  |      |
| FALL                    | 30"         |        |           |             |         |               |                           |                  |      |
| STICK UP                |             |        |           |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface HNU BG = 0.2 PPM

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube      W = Wash
- R = Air Rotary      C = Core
- D = Denison          P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD    | Samp. Desig. | PID (ppm) | Visual Description   | Elevation        |
|-------------|---------------------|--------------------|---------------|--------------|-----------|--|------------------|
| 1           |                     |                    |               |              |           | 0.0-0.2 ASPHALT WEARING / BINDER COURSE<br>0.2-1.0 SAND, SOME CRUSHED STONE (BASE CRS)       |                  |
| 2           | S-1                 | 1.1<br>2.0<br>55%  | 3<br>16<br>18 | 01           | BG        | SAND, fine grained, trace silt, brown, dense, damp.<br>NOTICEABLE ODOR - POSSIBLY PETROLEUM. |                  |
| 3           |                     |                    | 12            |              |           |  |                  |
| 4           | S-2                 | 1.3<br>2.0<br>65%  | 4<br>4<br>5   |              | BG        | SAND, fine grained, little silt, brown, loose; damp to moist                                 |                  |
| 5           |                     |                    | 8             |              |           |  |                  |
| 6           | S-3                 | 1.1<br>2.0<br>55%  | 5<br>5<br>5   |              | BG        | SAND, fine grained, little silt, brown, medium dense, damp                                   |                  |
| 7           |                     |                    | 6             |              |           |  |                  |
| 8           | S-4                 | 1.3<br>2.0<br>65%  | 4<br>5<br>8   | 04           | BG        | SAND, fine grained, little silt, yellowish brown, medium dense, damp                         |                  |
| 9           |                     |                    | 8             |              |           |  |                  |
|             | S-5                 | 1.9<br>2.0<br>95%  | 4<br>6        |              | BG        | SAND, fine grained, trace silt, yellowish brown and white, medium dense, damp                | Match to Sheet 2 |

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-B-5B07

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-S-5807

| 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            |                      |                   | PID = Photoionization Detector                             |           |  |           |
| D = Denison     | P = Piston          |                      |                   |  |           |  |           |
| N = No Sample   |                     |                      |                   |  |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD        | Samp. Desig.   | PID (ppm) | Visual Description   | Elevation |
| 11.0            |                     |                      | 8<br>9            |  |           | Continued from Sheet 1   |           |
| 12.0            | S-6                 | 1.5<br>2.0<br>75%    | 3<br>6<br>9<br>11 |  | BG        | SAND, fine grained, trace silt yellowish brown to dark brown, medium dense, damp |           |
| 13.0            |                     |                      |                   |  |           |  |           |
| 14.0            | S-7                 | 2.0<br>2.0<br>100%   | 5<br>5<br>8<br>8  | 07   | BG        | SAND, fine grained, trace silt dark brown to light brown, medium dense, moist    |           |
| 15.0            |                     |                      |                   |  |           |  |           |
| 16.0            | S-8                 | 1.2<br>2.0<br>60%    | 5<br>6<br>6<br>7  |  | BG        | SAND, fine grained, trace silt light brown to white, medium dense, wet           |           |
| 17.0            |                     |                      |                   |  |           | END OF BORING<br>TOTAL DEPTH = 17.0'   |           |
| 18              |                     |                      |                   |  |           |  |           |
| 19              |                     |                      |                   |  |           |  |           |
| 20              |                     |                      |                   |  |           |  |           |
| 21              |                     |                      |                   |  |           |  |           |
| 22              |                     |                      |                   |  |           |  |           |
| 23              |                     |                      |                   |  |           |  |           |
| 24              |                     |                      |                   |  |           |  |           |
| 25              |                     |                      |                   |  |           |  |           |
| 26              |                     |                      |                   |  |           |  |           |
| 27              |                     |                      |                   |  |           |  |           |
| 28              |                     |                      |                   |  |           |  |           |
| 29              |                     |                      |                   |  |           |  |           |
| 30              |                     |                      |                   |  |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-S-5807

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-5-5808

COORDINATES: EAST: 2502213.69

NORTH: 332573.45

ELEVATION: SURFACE: 21.90

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

| RIG:         |           |        |             |  | DATE   | PROGRESS (FT) | WEATHER           | WATER DEPTH (FT) | TIME |
|--------------|-----------|--------|-------------|--|--------|---------------|-------------------|------------------|------|
| SPLIT SPOON  | CASING    | AUGERS | CORE BARREL |  |        |               |                   |                  |      |
| SIZE (DIAM.) | 1-3/8" ID |        | 3/4" ID     |  | 4-5-94 | 0.0-15.0      | PARTLY SUNNY ±75° | 14.5             |      |
| LENGTH       | 2.0'      |        | 5.0         |  |        |               |                   |                  |      |
| TYPE         | STD.      |        | HSA         |  |        |               |                   |                  |      |
| HAMMER WT.   | 140#      |        |             |  |        |               |                   |                  |      |
| FALL         | 30"       |        |             |  |        |               |                   |                  |      |
| STICK UP     |           |        |             |  |        |               |                   |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. HNu BGR = 0.2 PPM

**SAMPLE TYPE**

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     |                    |            |              |           | SAND, fine grained, little crushed stone, brown, damp (AUGERED FROM 0.0'-1.0')   |           |
| 2           | S-1                 | 1.7 / 2.0          | 14 / 23    | 01           | BG        | SAND, fine grained, trace silt, brown, medium dense, damp  |           |
| 3           |                     | 85%                | 15         |              |           | NOTE: DROVE 3" O.D. SPLIT SPOON  |           |
| 4           | S-2                 | 0.1 / 2.0          | 3 / 3      |              | BG        | SAND, fine grained, trace silt, light brown, loose, damp   |           |
| 5           |                     | 5%                 | 6          |              |           |  |           |
| 6           |                     |                    |            |              | BG        | SAND, fine grained, trace silt light brown, damp (DESCRIPTION BASED ON INSPECTION OF RETURNS, DRILLER MISTAKENLY AUGERED THROUGH INTERVAL) |           |
| 7           |                     |                    |            |              |           |  |           |
| 8           | S-3                 | 1.4 / 2.0          | 6 / 5      | 04           | BG        | SAND, fine grained, trace to little silt, light brown, medium dense, damp  |           |
| 9           |                     | 70%                | 8          |              |           |  |           |
|             | S-4                 | 1.4 / 2.0          | 4 / 6      |              | BG        | SAND fine grained, trace silt, light brown to white, medium dense, damp  |           |

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-5-5808

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-15-5B08

| 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            |                      |                      | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |                      |  |           |   |           |
| N = No Sample   |                     |                      |                      |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD           | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11.0            |                     |                      | 6<br>7               |  |           | Continued from Sheet 1  |           |
| 12.0            | S5                  | 1.9<br>2.0           | 6<br>7<br>9<br>10    |  | BG        | SAND, fine grained, trace silt, light brown to dark brown, medium dense, damp   |           |
| 13.0            |                     | 95%                  |                      |  |           |   |           |
| 14.0            | S6                  | 2.0<br>2.0           | 32<br>19<br>21<br>19 | 07   | BG        | SAND, fine grained, trace silt, dark brown, medium dense, damp (13.0' to 13.2') to moist (13.2' to 14.5') to wet (below 14.5')<br>DROVE 3" O.D. SPLIT SPOON, SAMPLE COLLECTED FROM 13.2' to 14.2' |           |
| 15.0            |                     | 100%                 |                      |  |           | End of Boring<br>TD: 15.0'  | 6.90      |
| 16              |                     |                      |                      |  |           |   |           |
| 18              |                     |                      |                      |  |           |   |           |
| 19              |                     |                      |                      |  |           |   |           |
| 20              |                     |                      |                      |  |           |   |           |
| 21              |                     |                      |                      |  |           |   |           |
| 22              |                     |                      |                      |  |           |   |           |
| 23              |                     |                      |                      |  |           |   |           |
| 24              |                     |                      |                      |  |           |   |           |
| 25              |                     |                      |                      |  |           |   |           |
| 26              |                     |                      |                      |  |           |   |           |
| 27              |                     |                      |                      |  |           |   |           |
| 28              |                     |                      |                      |  |           |   |           |
| 29              |                     |                      |                      |  |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-15-5B08

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-15-S 1309

COORDINATES: EAST: 2502352.65

NORTH: 332573.75

ELEVATION: SURFACE: 23.03

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

|                          |             |        |           |             |        |               |                   |                  |      |
|--------------------------|-------------|--------|-----------|-------------|--------|---------------|-------------------|------------------|------|
| RIG: <u>MOBILE 13-57</u> |             |        |           |             |        |               |                   |                  |      |
|                          | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER           | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)             | 1-3/8" ID   |        | 3 1/4" ID |             | 4-5-99 | 0.0-17.0      | PARTLY SUNNY ±75° | 16.0             |      |
| LENGTH                   | 2.0'        |        | 5.0'      |             |        |               |                   |                  |      |
| TYPE                     | STD.        |        | HSA       |             |        |               |                   |                  |      |
| HAMMER WT.               | 140#        |        |           |             |        |               |                   |                  |      |
| FALL                     | 30"         |        |           |             |        |               |                   |                  |      |
| STICK UP                 |             |        |           |             |        |               |                   |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. HNU BQ = 0.2 ppm

**SAMPLE TYPE**  
 S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison        P = Piston  
 N = No Sample

**DEFINITIONS**  
 SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description   | Elevation        |
|-------------|---------------------|--------------------|----------------|--------------|-----------|--|------------------|
| 1           |                     |                    |                |              |           | SAND, fine grained and crushed stone, brown, very dense, damp (AUGERED 0.0-1.0)            |                  |
| 2           | S-1                 | 1.2<br>2.0<br>60%  | 13<br>31<br>55 | 01           | BG        | SAND, fine grained, trace silt, dark brown, very dense, damp                               |                  |
| 3           |                     |                    | 27             |              |           |  |                  |
| 4           | S-2                 | 1.2<br>2.0<br>60%  | 5<br>5<br>5    |              | BG        | SAND, fine grained, little silt, brown, medium dense, damp                                 |                  |
| 5           |                     |                    |                |              |           |  |                  |
| 6           | S-3                 | 1.1<br>2.0<br>55%  | 4<br>4<br>5    |              | BG        | SAND, fine grained, little silt, brown, loose, damp  |                  |
| 7           |                     |                    | 4              |              |           |  |                  |
| 8           | S-4                 | 1.5<br>2.0<br>75%  | 3<br>3<br>6    | 04           | BG        | SAND, fine grained, trace silt, light brown, loose, damp                                   |                  |
| 9           |                     |                    | 6              |              |           |  |                  |
|             | S-5                 | 2.0<br>2.0<br>100% | 4<br>5         |              | BG        | SAND, fine grained, trace silt, light brown to dark brown to light brown, med. dense, damp | Match to Sheet 2 |

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-15-S 1309

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-B-SB09

| 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            |                      |                  | PID = Photoionization Detector                             |           |  |           |
| D = Denison     | P = Piston          |                      |                  |  |           |  |           |
| N = No Sample   |                     |                      |                  |  |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD       | Samp. Desig.   | PID (ppm) | Visual Description   | Elevation |
| 11.0            |                     |                      | 5                |  |           | Continued from Sheet 1   |           |
| 12.0            | S-6                 | 1.5<br>2.0<br>75%    | 5<br>5<br>6<br>8 |  |           | SAND, fine grained, trace silt, light brown, medium dense, damp                                  |           |
| 13.0            |                     |                      |                  |  |           |  |           |
| 14.0            | S-7                 | 1.5<br>2.0<br>75%    | 3<br>6<br>8      | 07   |           | SAND, fine grained, trace silt, brown, medium dense, damp  |           |
| 15.0            |                     |                      |                  |  |           |  |           |
| 16.0            | S-8                 | 2.0<br>2.0<br>100%   | 6<br>7<br>6<br>8 |  |           | SAND, fine grained, trace silt, dark brown, medium dense, damp to moist to wet (wet below 16.0') |           |
| 17.0            |                     |                      |                  |  |           | END OF BORING<br>TOTAL DEPTH = 17.0'   | 6.03      |
| 18              |                     |                      |                  |  |           |  |           |
| 19              |                     |                      |                  |  |           |  |           |
| 20              |                     |                      |                  |  |           |  |           |
| 21              |                     |                      |                  |  |           |  |           |
| 22              |                     |                      |                  |  |           |  |           |
| 23              |                     |                      |                  |  |           |  |           |
| 24              |                     |                      |                  |  |           |  |           |
| 25              |                     |                      |                  |  |           |  |           |
| 26              |                     |                      |                  |  |           |  |           |
| 27              |                     |                      |                  |  |           |  |           |
| 28              |                     |                      |                  |  |           |  |           |
| 29              |                     |                      |                  |  |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-B-SB09

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FCLDA RIFES CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-SB10  
 COORDINATES: EAST: 2502485.70 NORTH: 332682.23  
 ELEVATION: SURFACE: 22.81 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |                |               |              |                                |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|--------------|--------------------------------|------|
| RIG: <u>8-57</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>3-29-94</u> | <u>19</u>     | <u>SUNNY</u> | <u>17</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: BACKGROUND (Bg) HNU = 0.2 ppm

| DRILL RECORD |              |                                      |                      |                    |             |           | VISUAL DESCRIPTION  |              |                     |   |              |           |
|--------------|--------------|--------------------------------------|----------------------|--------------------|-------------|-----------|---|--------------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>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<br>ROCK | ELEVATION |
|              |              |                                      |                      | RQD (Ft. & %)      | Pen. Rate   |           | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color        | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |              |           |
| 1            |              |                                      |                      |                    |             |           | <u>1' Fill - SAND-FINE AND GRAVEL - 71</u>                      |              |                     |   |              |           |
| 2            | <u>LAB</u>   | <u>S-1</u>                           | <u>83%<br/>2</u>     | <u>10</u>          | <u>01</u>   | <u>BG</u> | <u>SAND-FINE TRACE Silt</u>                                     | <u>BROWN</u> | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 3            |              |                                      | <u>42%<br/>2</u>     | <u>28</u>          |             |           |   |              |                     |   |              |           |
| 4            |              | <u>S-2</u>                           | <u>2%<br/>2</u>      | <u>27</u>          |             | <u>BG</u> | <u>SAND-FINE TRACE Silt</u>                                     | <u>BROWN</u> | <u>MED DENSE</u>    | <u>DRY</u>  |              |           |
| 5            |              |                                      | <u>100%<br/>2</u>    | <u>4</u>           |             |           |   |              |                     |   |              |           |
| 6            |              | <u>S-3</u>                           | <u>1.41%<br/>2</u>   | <u>6</u>           |             | <u>BG</u> | <u>SAND-FINE TRACE Silt</u>                                     | <u>BROWN</u> | <u>LOOSE</u>        | <u>DAMP</u>   |              |           |
| 7            |              |                                      | <u>71%<br/>2</u>     | <u>3</u>           |             |           |   |              |                     |   |              |           |
| 8            | <u>LAB</u>   | <u>S-4</u>                           | <u>1.16%<br/>2</u>   | <u>3</u>           | <u>02</u>   | <u>BG</u> | <u>SAND-FINE TRACE Silt</u>                                     | <u>BROWN</u> | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 9            |              |                                      | <u>58%<br/>2</u>     | <u>12</u>          |             |           |   |              |                     |   |              |           |
| 10           |              | <u>SS</u>                            | <u>1.16%<br/>2</u>   | <u>23</u>          |             | <u>BG</u> | <u>SAND-FINE LITTLE Silt</u>                                    | <u>BROWN</u> | <u>VERY DENSE</u>   | <u>DAMP</u>   |              |           |
|              |              |                                      | <u>24</u>            | <u>29</u>          |             |           |   |              |                     |   |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-SB10 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 |           |
|              |      | S-5                     | 58%        | 33<br>36           |              | BG        | CONTINUED   |           |                     |   |      |           |
| 11           |      |                         | 1.83<br>2  | 6<br>10            |              |           | SAND-FINE LITHE SITT  | LT. BROWN | MED DENSE           | DAMP  |      |           |
| 12           |      | S-6                     | 92%        | 12<br>14           |              | BG        |   |           |                     |   |      |           |
| 13           |      |                         | 1.91<br>2  | 7<br>10            |              |           | SAND-FINE LITHE SITT  | WHITE     | MED DENSE           | MOIST   |      |           |
| 14           |      | S-7                     | 96%        | 12<br>17           |              | BG        |   |           |                     |   |      |           |
| 15           |      |                         | 1.25<br>2  | 4<br>5             |              |           | SAND-FINE LITHE SITT  | WHITE     | MED DENSE           | MOIST   |      |           |
| 16           | LAB  | S-8                     | 63%        | 11<br>15           | 03           | BG        |   |           |                     | MOTTLED   |      |           |
| 17           |      |                         | 1.25<br>2  | 4<br>5             |              |           | WATER @ 17'   |           |                     |   |      |           |
| 18           |      | S-9                     | 63%        | 5<br>4             |              | BG        | SAND-F LITHE SITT   | BROWN     | MED DENSE           | MOIST   |      |           |
| 19           |      |                         |            |                    |              |           | END OF BORING 19'   |           |                     |   |      | 3.8       |
| 0            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 1            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 2            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 3            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 4            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 5            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 6            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 7            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 8            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 9            |      |                         |            |                    |              |           |   |           |                     |   |      |           |
| 0            |      |                         |            |                    |              |           |   |           |                     |   |      |           |

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FLUDA RELIEF MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-SB11  
 COORDINATES: EAST: 2502299.55 NORTH: 332686.38  
 ELEVATION: SURFACE: 21.90 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |              |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|--------------|--------------------------------|------|
| RIG: <u>B-57</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>3-30-94</u> | <u>15</u>     | <u>SUNNY</u> | <u>13</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: BACKGROUND (BG) HNU = 0.2 PPM

| DRILL RECORD |              |   |                              |                                     |             |           | VISUAL DESCRIPTION   |        |                     |   |              |           |
|--------------|--------------|---|------------------------------|-------------------------------------|-------------|-----------|--|--------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No Samp.) | Samp. Rec.<br>(Ft. &<br>& %) | SPT Blows Per 0.5'<br>RQD (Ft. & %) | Lab. Class. |           | Classification<br>(Grain Size, Principal Constituents, Etc.)       | Color  | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                              |                                     | Pen. Rate   | PID (ppm) | Classification<br>(Name, Grain Size, Principal Constituents, Etc.) | Color  | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |              |           |
| 1            |              |   |                              |                                     |             |           | 1' Fill - SAND-FINE<br>GRAVEL - FINE                               |        |                     |   |              |           |
| 2            | LAB          | S-1   | $\frac{.67}{2}$              | 6                                   | 01          | BG        | SAND-FINE TRACE SILT   | BROWN  | VERY DENSE          | DRY   |              |           |
| 3            |              |   | $\frac{33.9}{10}$            | 12                                  |             |           |  |        |                     |   |              |           |
| 4            |              | S-2   | $\frac{1.08}{2}$             | 3                                   |             | BG        | CLAY SOME SILT TRACE<br>SAND-FINE                                  | BROWN  | MED DENSE           | DRY   |              |           |
| 5            |              |   | $\frac{54.9}{10}$            | 6                                   |             |           |  |        |                     |   |              |           |
| 6            | LAB          | S-3   | $\frac{1.33}{2}$             | 3                                   | 03          | BG        | CLAY SOME SILT<br>TRACE SAND-FINE                                  | BROWN  | VERY STIFF          | DRY   |              |           |
| 7            |              |   | $\frac{67}{10}$              | 10                                  |             |           | 3" SAND-FINE TRACE SILT  | WHITE  |                     | DRY   |              |           |
| 8            |              | S-4   | $\frac{1.41}{2}$             | 3                                   |             | BG        | SAND-FINE TRACE SILT   | ORANGE | MED DENSE           | DRY   |              |           |
| 9            |              |   | $\frac{71.9}{10}$            | 9                                   |             |           |  |        |                     |   |              |           |
| 10           |              | S-5   | $\frac{1.08}{2}$             | 5                                   |             | BG        | SAND-FINE TRACE SILT   | ORANGE | MED DENSE           | DRY   |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-SB11 SHEET 1 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 1 - FGLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-SB11

| DRILL RECORD |      |                         |            |                    |             |           | VISUAL DESCRIPTION  |       |                     |   |      |           |
|--------------|------|-------------------------|------------|--------------------|-------------|-----------|---|-------|---------------------|---|------|-----------|
| DEPTH        | SOIL | Sample ID               | Samp. Rec. | SPT Blows Per 0.5' | Lab. Class. |           | Classification (Grain Size, Principal Constituents, Etc.)       | Color | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL | ELEVATION |
|              | ROCK | Type-No. (N = No Samp.) | (Ft. & %)  | RQD (Ft. & %)      | Pen. Rate   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               | ROCK |           |
| 11           |      | S-5                     | 54%        | 9                  |             | BG        |   |       |                     |   |      |           |
| 12           | LAB  | S-6                     | 1.08<br>2  | 4                  | OG          | BG        | SILT TRACE SAND-FINE  | BLACK | MED DENSE           | DAMP  |      |           |
| 13           |      |                         | 54%        | 11                 |             |           | WATER @ 13'<br>SILT TRACE SAND-FINE                             | BLACK | LOOSE               | WET   |      |           |
| 14           |      | S-7                     | 1.5<br>2   | 6                  |             | BG        |   |       |                     |   |      |           |
| 15           |      |                         | 75%        | 4                  |             |           | END OF BORING 15'   |       |                     |   |      | 6.90      |
| 16           |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 1            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 2            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 3            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 4            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |       |                     |   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TLIA  
 BORING NO.: 1-15-SB11 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 1 - FCLDA RT/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-12  
 COORDINATES: EAST: 2502183.27 NORTH: 332722.42  
 ELEVATION: SURFACE: 21.05 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |               |               |                 |                  |      |
|------------------|------------------|--------|----------------|-------------|---------------|---------------|-----------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                |             | DATE          | PROGRESS (FT) | WEATHER         | WATER DEPTH (FT) | TIME |
|                  | SPLIT SPOON      | CASING | AUGERS         | CORE BARREL |               |               |                 |                  |      |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3/4" ID</u> |             | <u>4-6-94</u> | <u>15</u>     | <u>OVERCAST</u> | <u>15</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: BACKGROUND (BG) HNU ≥ 0.2 PPM

|  |  |
|--|--|
| <p><b>SAMPLE TYPE</b></p> <p>S = Split Spoon    A = Auger<br/>       T = Shelby Tube    W = Wash<br/>       R = Air Rotary    C = Core<br/>       D = Denison    P = Piston<br/>       N = No Sample</p> | <p><b>DEFINITIONS</b></p> <p>SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br/>       RQD = Rock Quality Designation (%)<br/>       Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)<br/>       Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis</p> |
|--|--|

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD  | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description                                       | Elevatic |
|-------------|---------------------|--------------------|-------------|--------------------------|-----------|--|----------|
| 1           |                     |                    |             |                          |           | 1' Fill - SAND-FINE AND GRAVEL-F                         |          |
| 2           | LAB S-1             | 1.16 / 2           | 9<br>20     | 01                       | BG        | SAND-FINE TRACE SILT<br>DRY. LT. BROWN, DENSE            |          |
| 3           |                     | 58%                | 8           |                          |           |  |          |
| 4           | S-2                 | .92 / 2            | 3<br>3<br>5 |                          | BG        | SAND-FINE TRACE CLAY TRACE SILT<br>DRY. BROWN. MED STIFF |          |
| 5           |                     | 46%                | 6           |                          |           |  |          |
| 6           | S-3                 | 1.60 / 2           | 5<br>6      |                          | BG        | SAND-FINE LITTLE SILT<br>DAMP. BROWN. MED DENSE          |          |
| 7           |                     | 79%                | 7           |                          |           |  |          |
| 8           | LAB S-4             | .8 / 2             | 5<br>7<br>8 | 04                       | BG        | SAND-FINE TRACE SILT<br>DAMP. ORANGE/BROWN. MED. DENSE   |          |
| 9           |                     | 100%               | 8           |                          |           |  |          |
| 10          | S-5                 | 1.60 / 2           | 8<br>8      |                          | BG        | SAND-FINE TRACE SILT<br>DAMP. BROWN & WHITE. MED DENSE   |          |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-5812 SHEET 1 OF 1



# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: SITE 1 - FLIDA RIFES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-D-3B12

| 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   |                     |                         |                     |                          |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %)    | SPT or RQD          | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description   | Elevation |
|                 |                     |                         |                     |                          |           | CONTINUED  |           |
| 11              | S-5                 | 79%                     | 8<br>7              |                          | BG        |  |           |
| 12              | S-6                 | $\frac{1.83}{2}$<br>92% | 8<br>10<br>10<br>12 |                          | BG        | SAND-FINE TRACE SILT<br>DARK LT. BROWN, MED DENSE            |           |
| 13              |                     | $\frac{2}{2}$           | 13                  |                          |           | SAND-FINE TRACE SILT<br>MOIST TO WET. GRAY<br>MED DENSE      |           |
| 14              | LAB S-7             | 100%                    | 11<br>12<br>10      | 07                       | BG        | BOTTOM 2" SATURATED<br>WATER @ 15'                           |           |
| 15              |                     |                         |                     |                          |           | END OF BORING 15'  | G.O.S     |
| 16              |                     |                         |                     |                          |           |  |           |
| 17              |                     |                         |                     |                          |           |  |           |
| 18              |                     |                         |                     |                          |           |  |           |
| 19              |                     |                         |                     |                          |           |  |           |
| 20              |                     |                         |                     |                          |           |  |           |
| 21              |                     |                         |                     |                          |           |  |           |
| 22              |                     |                         |                     |                          |           |  |           |
| 23              |                     |                         |                     |                          |           |  |           |
| 24              |                     |                         |                     |                          |           |  |           |
| 25              |                     |                         |                     |                          |           |  |           |
| 26              |                     |                         |                     |                          |           |  |           |
| 27              |                     |                         |                     |                          |           |  |           |
| 28              |                     |                         |                     |                          |           |  |           |
| 29              |                     |                         |                     |                          |           |  |           |
| 30              |                     |                         |                     |                          |           |  |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-3B12 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-15-SB13

COORDINATES: EAST: 2502351.69

NORTH: 332762.54

ELEVATION: SURFACE: 21.66

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

|                  |                  |        |                |             |               |               |               |                  |      |
|------------------|------------------|--------|----------------|-------------|---------------|---------------|---------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                |             |               |               |               |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS         | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER       | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3/4" ID</u> |             | <u>4-6-94</u> | <u>17</u>     | <u>Cloudy</u> | <u>15</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: BACKGROUND (BG) HNU ≥ 0.2 PPM

| 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   |                     |                    |            |                          |           |   |           |  |  |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description  | Elevation |  |  |
| 1               |                     |                    |            |                          |           | <u>1' Fill - SAND-FINE AND GRAVEL-F</u>                                       |           |  |  |
| 2               | <u>LAB S-1</u>      | <u>1.71 / 2</u>    | <u>11</u>  | <u>01</u>                | <u>BG</u> | <u>SILT AND SAND-FINE</u><br><u>DRY. BROWN. DENSE</u>                         |           |  |  |
| 3               |                     | <u>71%</u>         | <u>12</u>  |                          |           |   |           |  |  |
| 4               | <u>S-2</u>          | <u>.75 / 2</u>     | <u>7</u>   |                          | <u>BG</u> | <u>SILT AND SAND-FINE</u><br><u>DRY. BROWN. LOOSE</u>                         |           |  |  |
| 5               |                     | <u>37%</u>         | <u>3</u>   |                          |           |   |           |  |  |
| 6               | <u>S-3</u>          | <u>1.60 / 2</u>    | <u>3</u>   |                          | <u>BG</u> | <u>SAND-FINE SOME SILT.</u><br><u>DRY. WHITE. LOOSE</u>                       |           |  |  |
| 7               |                     | <u>79%</u>         | <u>5</u>   |                          |           |   |           |  |  |
| 8               | <u>LAB S-4</u>      | <u>1.08 / 2</u>    | <u>2</u>   | <u>04</u>                | <u>BG</u> | <u>SAND-FINE LITTLE SILT.</u><br><u>DRY. WHITE. LOOSE</u>                     |           |  |  |
| 9               |                     | <u>54%</u>         | <u>3</u>   |                          |           |   |           |  |  |
| 10              | <u>S-5</u>          | <u>1.14 / 3</u>    | <u>3</u>   |                          | <u>BG</u> | <u>SAND-FINE TRACE SILT.</u><br><u>DRY. WHITE. LOOSE.</u><br><u>4" BROWN.</u> |           |  |  |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 1-15-SB13

SHEET 1 OF

# TEST BORING RECORD

PROJECT: SITE 1 - FLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-SB3

| SAMPLE TYPE     |                     |                         |                    |  |           | DEFINITIONS  |           |
|-----------------|---------------------|-------------------------|--------------------|--|-----------|--|-----------|
| S = Split Spoon |                     | A = Auger               |                    | SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') |           | RQD = Rock Quality Designation (%)                             |           |
| T = Shelby Tube |                     | W = Wash                |                    | Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)    |           | Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis   |           |
| R = Air Rotary  |                     | C = Core                |                    | D = Denison  |           | P = Piston   |           |
| 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   | Elevation |
|                 |                     |                         |                    |  |           | CONTINUED  |           |
| 11              | S-5                 | 58%<br>$\frac{1.33}{2}$ | 4<br>3             |  | BG        |  |           |
| 12              | S-6                 | 67%<br>$\frac{1.16}{2}$ | 4<br>4<br>6<br>5   |  | BG        | SAND-FINE TRACE SILT<br>DAMP. LT. BROWN. MED DENSE             |           |
| 13              |                     |                         |                    |  |           |  |           |
| 14              | LAB S-7             | 58%<br>$\frac{1.25}{2}$ | 4<br>10<br>10      | 05   | BG        | SAND-FINE LITTLE SILT<br>TRACE CLAY. DAMP. LT. BROWN           |           |
| 15              |                     |                         |                    |  |           |  |           |
| 16              | S-8                 | 63%<br>$\frac{1.25}{2}$ | 4<br>8<br>10<br>16 |  | BG        | WATER @ 15'<br>SAND-FINE LITTLE SILT<br>WET. WHITE. MED DENSE. |           |
| 17              |                     |                         |                    |  |           | END OF BORING 17'  | 4.66      |
| 18              |                     |                         |                    |  |           |  |           |
| 19              |                     |                         |                    |  |           |  |           |
| 20              |                     |                         |                    |  |           |  |           |
| 21              |                     |                         |                    |  |           |  |           |
| 22              |                     |                         |                    |  |           |  |           |
| 23              |                     |                         |                    |  |           |  |           |
| 24              |                     |                         |                    |  |           |  |           |
| 25              |                     |                         |                    |  |           |  |           |
| 26              |                     |                         |                    |  |           |  |           |
| 27              |                     |                         |                    |  |           |  |           |
| 28              |                     |                         |                    |  |           |  |           |
| 29              |                     |                         |                    |  |           |  |           |
| 30              |                     |                         |                    |  |           |  |           |

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-15-5B14

COORDINATES: EAST: 2502265.05

NORTH: 332861.69

ELEVATION: SURFACE: 21.21

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

|              |             |        |           |             |        |               |                      |                  |      |
|--------------|-------------|--------|-----------|-------------|--------|---------------|----------------------|------------------|------|
| RIG: #73     |             |        |           |             |        |               |                      |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER              | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 4-6-93 | 0-15.0        | overcast mild (60's) | 14.0             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |        |               |                      |                  |      |
| TYPE         | STD.        |        | HSA       |             |        |               |                      |                  |      |
| HAMMER WT.   | 140#        |        |           |             |        |               |                      |                  |      |
| FALL         | 30"         |        |           |             |        |               |                      |                  |      |
| STICK UP     |             |        |           |             |        |               |                      |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. Hsu background is .4 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | N                   | -                  | -          |              | -         | NO SAMPLE  |           |
| 2           | S-1                 | 1.9 / 2.0          | 52 / 68    | 01           | BG        | SILTY SAND, fine grained w/trace gravel. Brown, very dense, damp.  |           |
| 3           |                     | 95%                | 37         |              |           |  |           |
| 4           | S-2                 | 1.5 / 2.0          | 7 / 8      |              | BG        |  |           |
| 5           |                     | 75%                | 7          |              |           |  |           |
| 6           | S-3                 | 1.4 / 2.0          | 6 / 6      | 03           | BG        |  |           |
| 7           |                     | 70%                | 6          |              |           | SAND, fine grained w/trace silt. Brown to light brown, medium dense, damp. Oxidation present (orange) 9 to 11' (bgs) only. |           |
| 8           | S-4                 | 1.4 / 2.0          | 3 / 5      |              | BG        |  |           |
| 9           |                     | 70%                | 8          |              |           |  |           |
|             | S-5                 | 1.8 / 2.0          | 5 / 7      |              | BG        |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 1-15-5B14

SHEET 1 OF 2



# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: Z-15-SB14

| 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            |                      |                |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                      |                |              |           |   |           |
| N = No Sample   |                     |                      |                |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11.0            | S-5                 | 90%                  | 7              |              | BG        | Continued from Sheet 1  |           |
| 12.0            | S-6                 | 1.2<br>2.0<br>60%    | 5<br>7<br>8    | 06           | BG        | SAND, fine grained w/ trace silt. Brown to light brown, medium dense, damp to moist to wet. Oxidation present (orange) 9 to 11' (bgs) only. |           |
| 13.0            |                     |                      |                |              |           |   |           |
| 14.0            | S-7                 | 2.0<br>2.0<br>100%   | 20<br>13<br>12 |              | BG        |   |           |
| 15.0            |                     |                      |                |              |           | End of Boring<br>TD 15.0'   | 6.21      |
| 16              |                     |                      |                |              |           |   |           |
| 17              |                     |                      |                |              |           |   |           |
| 18              |                     |                      |                |              |           |   |           |
| 19              |                     |                      |                |              |           |   |           |
| 20              |                     |                      |                |              |           |   |           |
| 21              |                     |                      |                |              |           |   |           |
| 22              |                     |                      |                |              |           |   |           |
| 23              |                     |                      |                |              |           |   |           |
| 24              |                     |                      |                |              |           |   |           |
| 25              |                     |                      |                |              |           |   |           |
| 26              |                     |                      |                |              |           |   |           |
| 27              |                     |                      |                |              |           |   |           |
| 28              |                     |                      |                |              |           |   |           |
| 29              |                     |                      |                |              |           |   |           |
| 30              |                     |                      |                |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: Z-15-SB14

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FCLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-S15  
 COORDINATES: EAST: 2502242.54 NORTH: 332985.00  
 ELEVATION: SURFACE: 21.82 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |  |               |               |              |                                |      |
|------------------|------------------|--------|----------------|--|---------------|---------------|--------------|--------------------------------|------|
| RIG: <u>B-57</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>4-5-94</u> | <u>15'</u>    | <u>SUNNY</u> | <u>15</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: BACKGROUND (BG) HNU = 0.2 PPM

| DRILL RECORD |              |   |                            |                             |                |              | VISUAL DESCRIPTION  |                |                           |  |              |           |
|--------------|--------------|---|----------------------------|-----------------------------|----------------|--------------|---|----------------|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No<br>Samp. | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab.<br>Class. | PID<br>(ppm) | Classification<br>(Grain Size, Principal<br>Constituents, Etc.)       | Color          | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            | RQD<br>(Ft. &<br>%)         | Pen.<br>Rate   |              | Classification<br>(Name, Grain Size, Principal<br>Constituents, Etc.) | Color          | Hardness                  | Weathering, Bedding,<br>Fracturing, and Other<br>Observations                  |              |           |
| 1            |              |   |                            | 16                          |                |              | 1' FILL-SAND-FINE AND GRAVEL-FINE                                     |                |                           |  |              |           |
| 2            | LAB          | S-1   | 2/2                        | 29                          | 01             | BG           | SAND-FINE TRACE SILT TRACE CLAY                                       | BROWN          | DENSE                     | DRY  |              |           |
| 3            |              |   | 100%                       | 13                          |                |              | SAND-FINE TRACE SILT  | LT. BROWN      | MED DENSE                 | DRY  |              |           |
| 4            |              | S-2   | 1.33/2                     | 6                           |                | 0.3          |   |                |                           |  |              |           |
| 5            |              |   | 67%                        | 5                           |                |              | SAND-FINE TRACE SILT  | BROWN          | LOOSE                     | DAMP   |              |           |
| 6            |              | S-3   | 1/2                        | 4                           |                | BG           |   |                |                           |  |              |           |
| 7            |              |   | 50%                        | 7                           |                |              | SAND-FINE TRACE SILT  | ORANGE BROWN   | LOOSE                     | DAMP   |              |           |
| 8            | LAB          | S-4   | 2/2                        | 3                           | 02             | BG           | SAND-FINE LITTLE SILT   | ORANGE BROWN   | LOOSE                     | DAMP   |              |           |
| 9            |              |   | 100%                       | 5                           |                |              |   |                |                           |  |              |           |
| 10           |              | S-5   | 1.5/2                      | 6                           |                | BG           | SAND-FINE LITTLE SILT   | WHITE LT BROWN | MED DENSE                 | DAMP   |              |           |
|              |              |   |                            | 7                           |                |              |   |                |                           |  |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-S15 SHEET 1 OF 2

## FIELD TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: SITE 1 FCLDA RIIF5 MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-SB15

| 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   | PID (ppm)            | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color   | Hardness     | Weathering, Bedding, Fracturing, and Other Observations |           |
| 11           |      | S-5       | 75%                     | 7<br>6             |               | BG  |                      |   |   |              |   |           |
| 12           | LAB  | S-6       | $\frac{1.67}{2}$        | 5<br>5             | 06            | BG  | SAND-F TRACE SITT    | LT. GRAY  |   | DAMP         |   |           |
| 13           |      |           | 83%                     | 5<br>5             |               |   | SAND-FINE TRACE SITT | DARK BROWN  |   | MOIST TO WBT |   |           |
| 14           |      | S-7       | $\frac{1.67}{2}$        | 5<br>6             |               | BG  |                      |   |   |              |   |           |
| 15           |      |           | 83%                     | 7                  |               |   | END OF BORING 15'    |   |   |              |   | 6.82      |
| 6            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 7            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 8            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 9            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 0            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 1            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 2            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 3            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 4            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 5            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 6            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 7            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 8            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 9            |      |           |                         |                    |               |   |                      |   |   |              |   |           |
| 0            |      |           |                         |                    |               |   |                      |   |   |              |   |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-SB15 SHEET 2 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 1 - FCLDA RL/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-5B16  
 COORDINATES: EAST: 2502276.10 NORTH: 333117.27  
 ELEVATION: SURFACE: 23.92 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |               |               |              |                                |      |
|------------------|------------------|--------|----------------|-------------|---------------|---------------|--------------|--------------------------------|------|
| RIG: <u>B-57</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>4-5-94</u> | <u>17</u>     | <u>SUNNY</u> | <u>16</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: BACKGROUND (Bg) H<sub>NU</sub> = 0.2 ppm

| DRILL RECORD |              |   |                            |  |                     |           | VISUAL DESCRIPTION  |   |                           |  |              |           |
|--------------|--------------|---|----------------------------|--|---------------------|-----------|---|---|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No Samp.) | Samp. Rec.<br>(Ft. &<br>%) | SPT Blows<br>Per 0.5'                        | Lab. Class.         |           | Classification<br>(Grain Size, Principal<br>Constituents, Etc.) | Color   | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            |  | RQD<br>(Ft. &<br>%) | Pen. Rate | PID<br>(ppm)  | Classification<br>(Name, Grain Size, Principal<br>Constituents, Etc.) | Color                     | Hardness   |              |           |
| 1            |              |   |                            |  |                     |           | <u>1.5" ASPHALT</u><br><u>1' FILL - SAND-FINE</u>               |   |                           |  |              |           |
| 2            |              | <u>S-1</u>                                  | <u>1.23/2</u>              | <u>5</u><br><u>6</u>                         | <u>01</u>           | <u>BG</u> | <u>SAND-FINE LIMY CLAY</u>                                      | <u>BROWN</u>  | <u>MED DENSE</u>          | <u>DRY</u>   |              |           |
| 3            |              |   | <u>67%</u>                 | <u>6</u>                                     |                     |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>LT BROWN</u>   | <u>LOOSE</u>              | <u>DRY</u>   |              |           |
| 4            |              | <u>S-2</u>                                  | <u>1.25/2</u>              | <u>3</u><br><u>3</u>                         |                     | <u>BG</u> | <u>SAND-FINE TRACE SILT</u>                                     | <u>LT BROWN</u>   | <u>LOOSE</u>              | <u>DAMP</u>  |              |           |
| 5            |              |   | <u>63%</u>                 | <u>4</u>                                     |                     |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>LT BROWN</u>   | <u>LOOSE</u>              | <u>DAMP</u>  |              |           |
| 6            |              | <u>S-3</u>                                  | <u>0/2</u>                 | <u>5</u><br><u>4</u><br><u>4</u>             |                     | <u>BG</u> | <u>SAND-FINE TRACE SILT</u>                                     | <u>LT BROWN</u>   | <u>LOOSE</u>              | <u>DAMP</u>  |              |           |
| 7            |              |   | <u>100%</u>                | <u>5</u>                                     |                     |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u>  | <u>LOOSE</u>              | <u>DAMP</u>  |              |           |
| 8            |              | <u>S-4</u>                                  | <u>1.16/2</u>              | <u>6</u><br><u>5</u><br><u>4</u><br><u>4</u> | <u>04</u>           | <u>BG</u> | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u>  | <u>LOOSE</u>              | <u>DAMP</u>  |              |           |
| 9            |              |   | <u>58%</u>                 | <u>5</u>                                     |                     |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u>  | <u>MED DENSE</u>          | <u>DAMP</u>  |              |           |
| 10           |              | <u>S-5</u>                                  | <u>1.25/2</u>              | <u>6</u><br><u>5</u>                         |                     | <u>BG</u> | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u>  | <u>MED DENSE</u>          | <u>DAMP</u>  |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-5B16 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           |      | S-5                     | 63%              | 5                  |             | BG        | SAND-FINE TRACE SILT  | WHITE | MED DENSE           | DAMP  |      |           |
| 12           |      |                         | $\frac{1.33}{2}$ | 7                  |             |           |   |       |                     |   |      |           |
| 13           |      | S-6                     | 67%              | 7                  |             | BG        | SAND-FINE TRACE SILT  | WHITE | MED DENSE           | DAMP  |      |           |
| 14           |      |                         | $\frac{1.60}{2}$ | 7                  | 07          |           |   |       |                     |   |      |           |
| 15           |      | S-7                     | 79%              | 8                  |             | BG        | SAND-FINE TRACE SILT  | WHITE | MED DENSE           | WET   |      |           |
| 16           |      |                         | $\frac{2}{2}$    | 6                  |             |           |   |       |                     |   |      |           |
| 17           |      | S-8                     | 100%             | 7                  |             | BG        | WATER @ 16'   |       |                     |   |      | 6.92      |
| 17           |      |                         |                  | 8                  |             |           | END OF BORING 17'   |       |                     |   |      |           |
| 8            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 9            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 0            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 1            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 2            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 3            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 4            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 5            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 6            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 7            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 8            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 9            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |
| 0            |      |                         |                  |                    |             |           |   |       |                     |   |      |           |

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-15-SB17

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            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)            | 1-3/8" ID   |        | 3/4" ID |             | 3-30-94 | 0.0-15.0      | PARTLY CLOUDY 4:00 | 14.7             |      |
| LENGTH                  | 2.0'        |        | 5.0'    |             |         |               |                    |                  |      |
| TYPE                    | STD.        |        | HSA     |             |         |               |                    |                  |      |
| HAMMER WT.              | 140#        |        |         |             |         |               |                    |                  |      |
| FALL                    | 30"         |        |         |             |         |               |                    |                  |      |
| STICK UP                |             |        |         |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. H<sub>2</sub>O background = 0.3 ppm

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube      W = Wash
- R = Air Rotary        C = Core
- D = Denison            P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD          | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|---------------------|--------------|-----------|---|-----------|
| 1           |                     |                    |                     |              |           | AUGERED THRU GRAVEL PVMT. (sand with crushed stone)                                 |           |
| 2           |                     |                    |                     | 01           | BG        | SAND, fine grained, light brown, damp   |           |
| 3           |                     |                    |                     |              |           |   |           |
| 4           | S-1                 | 1.8<br>2.0<br>90%  | 6<br>9<br>10        |              | BG        | SAND, fine grained, little silt, light brown to yellowish brown, medium dense, damp |           |
| 5           |                     |                    |                     |              |           |   |           |
| 6           | S-2                 | 1.7<br>2.0<br>85%  | 8<br>10<br>13<br>16 | 03           | BG        | SAND, fine grained, little silt, yellowish brown, medium dense, damp                |           |
| 7           |                     |                    |                     |              |           |   |           |
| 8           | S-3                 | 1.3<br>2.0<br>65%  | 13<br>8<br>9<br>7   |              | BG        | SAND, fine grained, little silt, yellowish brown to dark brown, medium dense, damp  |           |
| 9           | S-4                 | 1.5<br>2.0<br>75%  | 8<br>9              |              | BG        | SAND, fine grained, little silt, dark brown, medium dense, damp                     |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: MARTIN G. TAUBE

DRILLER: G. BARNES

BORING NO.: 1-15-SB17

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1S-3B17

| 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            |                      |                |              |           | PID = Photoionization Detector   |           |
| D = Denison     | P = Piston          |                      |                |              |           |  |           |
| N = No Sample   |                     |                      |                |              |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11.0            |                     |                      | 11<br>12       |              |           | Continued from Sheet 1   |           |
| 12.0            | S-5                 | 1.7<br>2.0<br>85%    | 9<br>18<br>15  | OG           | BG        | SAND, fine grained trace silt, dark brown to white, dense, damp              |           |
| 13.0            |                     |                      | 22             |              |           |  |           |
| 14.0            | S-6                 | 1.3<br>2.0<br>65%    | 18<br>19<br>18 |              | BG        | SAND, fine grained, trace silt, white, dense moist, to wet (wet below 14.7') |           |
| 15.0            |                     |                      | 21             |              |           | END OF BORING<br>TOTAL DEPTH = 15.0'   |           |
| 16              |                     |                      |                |              |           |  |           |
| 18              |                     |                      |                |              |           |  |           |
| 19              |                     |                      |                |              |           |  |           |
| 20              |                     |                      |                |              |           |  |           |
| 21              |                     |                      |                |              |           |  |           |
| 22              |                     |                      |                |              |           |  |           |
| 23              |                     |                      |                |              |           |  |           |
| 24              |                     |                      |                |              |           |  |           |
| 25              |                     |                      |                |              |           |  |           |
| 26              |                     |                      |                |              |           |  |           |
| 27              |                     |                      |                |              |           |  |           |
| 28              |                     |                      |                |              |           |  |           |
| 29              |                     |                      |                |              |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. BARNES

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-1S-3B17

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 1 - FCLDA RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-15-SB18  
 COORDINATES: EAST: 2502396.97 NORTH: 332498.05  
 ELEVATION: SURFACE: 23.73 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |               |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|---------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |               |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3 1/4" ID</u> |             | <u>4-5-94</u> | <u>17</u>     | <u>SUNNY</u> | <u>16</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: BACKGROUND (BG) HNU ≥ 0.2 PPM

| 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 |                     |                         |                                  |                          |           |   |   |  |           |
| Depth (Ft.)   | Sample Type and No. | Samp. Rec. Ft. & %      | SPT or RQD                       | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description                            |   |  | Elevation |
| 1             |                     |                         |                                  |                          |           | 1' Fill - SAND-FINE AND GRAVEL-FINE           |   |  |           |
| 2             | LAB S-1             | <u>1.41</u><br><u>2</u> | <u>13</u><br><u>30</u>           | <u>01</u>                | <u>BG</u> | SAND-FINE AND SILT.<br>DRY. BLACK. VERY DENSE |   |  |           |
| 3             |                     | <u>71%</u>              | <u>14</u>                        |                          |           | SILT LITTLE SAND-F                            |   |  |           |
| 4             | S-2                 | <u>.75</u><br><u>2</u>  | <u>3</u><br><u>5</u>             |                          | <u>BG</u> | DRY. BROWN. MED DENSE                         |   |  |           |
| 5             |                     | <u>37%</u>              | <u>7</u>                         |                          |           | SAND-F LITTLE SILT                            |   |  |           |
| 6             | S-3                 | <u>1.60</u><br><u>2</u> | <u>3</u><br><u>4</u>             |                          | <u>BG</u> | DRY. ORANGE. LOOSE                            |   |  |           |
| 7             |                     | <u>79%</u>              | <u>3</u>                         |                          |           | SAND-FINE SOME SILT.                          |   |  |           |
| 8             | LAB S-4             | <u>1.67</u><br><u>2</u> | <u>3</u><br><u>4</u><br><u>6</u> | <u>04</u>                | <u>BG</u> | DAMP. LT. BROWN. MED. DENSE                   |   |  |           |
| 9             |                     | <u>83%</u>              | <u>7</u>                         |                          |           | SAND-FINE SOME SILT                           |   |  |           |
| 10            | S-5                 | <u>1.67</u><br><u>2</u> | <u>4</u><br><u>5</u>             |                          | <u>BG</u> | DAMP. LT. BROWN. MED DENSE                    |   |  |           |
|               |                     |                         |                                  |                          |           | 6" SAND-FINE. DARK BROWN                      |   |  |           |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-15-SB18 SHEET 1 OF 1



# TEST BORING RECORD

PROJECT: SITE 1 - FLUDA RIFES MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-13-SB18

| SAMPLE TYPE     |                     |                         |                  |  |           | DEFINITIONS  |           |
|-----------------|---------------------|-------------------------|------------------|--|-----------|--|-----------|
| S = Split Spoon |                     | A = Auger               |                  | SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') |           | RQD = Rock Quality Designation (%)                           |           |
| T = Shelby Tube |                     | W = Wash                |                  | Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)    |           | Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis |           |
| 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   | Elevation |
|                 | S-5                 | 83%<br>$\frac{1.67}{2}$ | 6<br>8           |  | BG        | CONTINUED  |           |
| 11              |                     |                         | 5<br>8           |  |           | SAND-FINE SOME SITT<br>DAMP. DARK BROWN                      |           |
| 12              | S-6                 | 83%                     | 8                |  | BG        |  |           |
| 13              |                     |                         | 7                |  |           | SAND-FINE SOME SITT<br>DAMP. DARK BROWN. MED DENSE           |           |
| 14              | LAB S-7             | LAB<br>$\frac{68}{2}$   | 3<br>6<br>7<br>9 | 07   | BG        |  |           |
| 15              |                     | 68%                     | 5<br>7           |  |           | SAND-FINE LITTLE SITT  |           |
| 16              | S-8                 | $\frac{1.75}{2}$        | 5<br>7<br>9      |  | BG        | WATER @ 16'<br>MOIST TO WET<br>BROWN. MED DENSE              |           |
| 17              |                     | 37%                     | 10               |  |           | END OF BORING 17'  | 6.73      |
| 18              |                     |                         |                  |  |           |  |           |
| 19              |                     |                         |                  |  |           |  |           |
| 20              |                     |                         |                  |  |           |  |           |
| 21              |                     |                         |                  |  |           |  |           |
| 22              |                     |                         |                  |  |           |  |           |
| 23              |                     |                         |                  |  |           |  |           |
| 24              |                     |                         |                  |  |           |  |           |
| 25              |                     |                         |                  |  |           |  |           |
| 26              |                     |                         |                  |  |           |  |           |
| 27              |                     |                         |                  |  |           |  |           |
| 28              |                     |                         |                  |  |           |  |           |
| 29              |                     |                         |                  |  |           |  |           |
| 30              |                     |                         |                  |  |           |  |           |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TWA  
 BORING NO.: 1-13-SB18 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FLUDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-1N-3819  
 COORDINATES: EAST: 2502539.04 NORTH: 333936.41  
 ELEVATION: SURFACE: 17.57 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |                |               |             |                                |      |
|------------------|------------------|--------|----------------|-------------|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</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>3-28-94</u> | <u>13</u>     | <u>RAIN</u> | <u>9</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: BACKGROUND (BG) HNU = .2 ppm

| DRILL RECORD |              |                                      |                      |                    |             |   | VISUAL DESCRIPTION   |                     |   |      |           |           |
|--------------|--------------|--------------------------------------|----------------------|--------------------|-------------|---|----------------------|---------------------|---|------|-----------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-No. (N = No Samp.) | Samp. Rec. (Ft. & %) | SPT Blows Per 0.5' | Lab. Class. | Classification (Grain Size, Principal Constituents, Etc.) | Color                | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL | ELEVATION |           |
|              |              |                                      |                      | RQD (Ft. & %)      | Pen. Rate   |   |                      |                     |   |      |           | PID (ppm) |
| 1            | LAB          | 00                                   | 100%                 | -                  | 00          | BG  | SILT AND SAND-FINE   | GRAY                |   | DRY  |           |           |
| 2            |              | S-1                                  | 65%<br>2             | 15                 |             |   | SAND-FINE TRACE SILT | WHITE               | MED DENSE   | DRY  |           |           |
| 3            |              |                                      | 75%                  | 17                 |             | .4  |                      |                     |   |      |           |           |
| 4            |              | S-2                                  | 1.4%<br>2            | 14                 |             |   | SAND-FINE AND SILT   | LT. BROWN           | LOOSE   | DRY  |           |           |
| 5            |              |                                      | 71%                  | 2                  |             | BG  |                      |                     |   |      |           |           |
| 6            |              | S-3                                  | 1.5%<br>2            | 3                  |             |   | SAND-FINE AND SILT   | LT. BROWN           | MED DENSE   | DRY  |           |           |
| 7            |              |                                      | 75%                  | 3                  |             |   |                      |                     |   |      |           |           |
| 8            | LAB          | S-4                                  | 1.6%<br>2            | 4                  |             |   | SAND-FINE AND SILT   | LT. BROWN           | MED DENSE   | DAMP |           |           |
| 9            |              |                                      | 83%                  | 6                  |             | 04  |                      |                     |   |      |           |           |
| 10           |              | S-5                                  | 1.5%<br>2            | 13                 |             |   | WATER @ 9'           |                     |   |      |           |           |
|              |              |                                      |                      | 6                  |             | BG  | SAND-FINE AND SILT   | LT. BROWN           | MED DENSE   | WET  |           |           |
|              |              |                                      |                      | 7                  |             |   |                      |                     |   |      |           |           |

DRILLING CO.: EMTC  
 DRILLER: Jim MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-1N-3819 SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: SITE 1 FCLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-1N-SB19

| DRILL RECORD |      |                         |            |                    |             |           | VISUAL DESCRIPTION  |           |                     |   |      |           |
|--------------|------|-------------------------|------------|--------------------|-------------|-----------|---|-----------|---------------------|---|------|-----------|
| DEPTH        | SOIL | Sample ID               | Samp. Rec. | SPT Blows Per 0.5' | Lab. Class. |           | Classification (Grain Size, Principal Constituents, Etc.)       | Color     | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL | ELEVATION |
|              | ROCK | Type-No. (N = No Samp.) | (Ft. & %)  | RQD (Ft. & %)      | Pen. Rate   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color     | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               | ROCK |           |
| 11           |      | S-5                     | 75%        | 8<br>9             |             | B6        | CONTINUED   |           |                     |   |      |           |
| 12           |      | S-6                     | 1.41/2     | 4<br>4<br>7<br>7   |             | B6        | SAND-F AND Silt   | LT. BROWN | MED DENSE           | WET.  |      | 4.5       |
| 13           |      |                         | 71%        |                    |             |           | END OF BORING 13'   |           |                     |   |      |           |
| 4            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 1            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 2            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 3            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 4            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |           |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |           |                     |   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-1N-SB19 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 PCLDA RT/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-5820  
 COORDINATES: EAST: 2502536.27 NORTH: 333715.87  
 ELEVATION: SURFACE: 18.34 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |              |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|--------------|--------------------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |  | DATE           | PROGRESS (FT) | WEATHER      | TOP OF CASING WATER DEPTH (FT) | TIME |
| SPLIT SPOON      | CASING           | AUGERS | CORE BARREL      |  |                |               |              |                                |      |
| SIZE (DIAM.)     | <u>3 1/8" ID</u> |        | <u>3 1/4" ID</u> |  | <u>3-29-94</u> | <u>13</u>     | <u>SUNNY</u> | <u>11</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: BACKGROUND (Bg) H<sub>nu</sub> = 0.2

| DRILL RECORD |              |   |                         |                    |             |  | VISUAL DESCRIPTION    |   |   |      |           |
|--------------|--------------|---|-------------------------|--------------------|-------------|--|-----------------------|---|---|------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-No.<br>(N = No Samp.) | Samp. Rec.<br>(Ft. & %) | SPT Blows Per 0.5' | Lab. Class. | Classification<br>(Grain Size, Principal Constituents, Etc.) | Color                 | Consist. or Density                       | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL | ELEVATION |
|              |              |   |                         | RQD (Ft. & %)      | Pen. Rate   |  |                       |   |   |      |           |
| 1            | LAB          | 00                                      | 100%                    |                    | 00          | BG   | SATURATED MUD         | BROWN                                     |   |      |           |
| 2            |              | S-1                                     | <u>1.25/2</u>           | 4<br>5<br>7        |             | BG   | SAND-FINE SOME SILT   | LT BROWN<br>MED DENSE                     | DAMP  |      |           |
| 3            |              |   | 63%                     | 12                 |             |  |                       |   |   |      |           |
| 4            |              | S-2                                     | <u>1.67/2</u>           | 4<br>5             |             | BG   | SAND-FINE TRACE SILT  | BROWN<br>5" WHITE<br>LOOSE                | DAMP  |      |           |
| 5            |              |   | 83%                     | 7                  |             |  |                       |   |   |      |           |
| 6            |              | S-3                                     | <u>1.5/2</u>            | 3<br>4<br>5        |             | BG   | SAND-FINE SOME SILT   | 4" BROWN<br>9" WHITE<br>4" BROWN<br>LOOSE | MOIST   |      |           |
| 7            |              |   | 75%                     | 5                  |             |  |                       |   |   |      |           |
| 8            |              | S-4                                     | <u>1.5/2</u>            | 5<br>8<br>10       |             | BG   | SAND-FINE SOME SILT   | BROWN<br>MED. DENSE                       | MOIST   |      |           |
| 9            |              |   | 75%                     | 13                 |             |  |                       |   |   |      |           |
| 10           | LAB          | S-5                                     | <u>1.25/2</u>           | 4<br>6             | 05          | BG   | SAND-FINE LITTLE SILT | WHITE<br>MED DENSE                        | MOIST   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-5820 SHEET 1 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FOLLA RIFES MCB CAMP LEJEUNE  
 S.O. NO.: 6-470-231 BORING NO.: 1-1N-SB20

| 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            | LAB  | S-5                     | 63%        | 10<br>13           |             |           | CONTINUED SAND-FINE LITTLE SILT WATER @ 11"                     | WHITE | MED DENSE           | MOIST   |      | 5.34      |
| 2            |      | S-6                     | 1.5<br>2   | 4<br>7             |             |           | SAND-FINE SOME SILT   | WHITE | MED DENSE           | WET   |      |           |
| 3            |      |                         | 75%        | 7<br>6             |             |           |   |       |                     |   |      |           |
| 4            |      |                         |            |                    |             |           | END OF BORING 13'   |       |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |       |                     |   |      |           |

DRILLING CO.: EATC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-1N-SB20 SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB21

COORDINATES: EAST: 2502526.92

NORTH: 333507.25

ELEVATION: SURFACE: 23.15

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

|              |             |        |         |             |         |               |                         |                  |      |
|--------------|-------------|--------|---------|-------------|---------|---------------|-------------------------|------------------|------|
| RIG: # 220   |             |        |         |             |         |               |                         |                  |      |
|              | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                 | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3/4" ID |             | 3-29-94 | 0-17'         | overcast<br>cool (50's) | 16.0             |      |
| LENGTH       | 2.0'        |        | 5.0'    |             |         |               |                         |                  |      |
| TYPE         | STD.        |        | HSA     |             |         |               |                         |                  |      |
| HAMMER WT.   | 140#        |        |         |             |         |               |                         |                  |      |
| FALL         | 30"         |        |         |             |         |               |                         |                  |      |
| STICK UP     |             |        |         |             |         |               |                         |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. Hwu background is .3 ppm

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube      W = Wash
- R = Air Rotary      C = Core
- D = Denison      P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | N                   | -                  | -          |              | -         | No SAMPLE  |           |
| 2           |                     | -                  | -          | 01           | BG        | SAND, fine grained w/ trace silt. Brown to dark brown to gray to light brown, very loose to medium dense to loose, damp. |           |
| 3           |                     |                    |            |              |           |  |           |
| 4           | S-1                 | 1.7<br>2.0         | 15<br>12   |              | BG        |  |           |
| 5           |                     | 85%                | 11         |              |           |  |           |
| 6           | S-2                 | 1.9<br>2.0         | 5<br>5     |              | BG        |  |           |
| 7           |                     | 95%                | 8          |              |           |  |           |
| 8           | S-3                 | 1.6<br>2.0         | 4<br>4     | 04           | BG        |  |           |
| 9           |                     | 80%                | 6          |              |           |  |           |
|             | S-4                 | 1.7<br>2.0         | 5<br>5     |              | BG        |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 1-1N-SB21

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: I-1N-SB21

| 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            |                      |               | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |               |  |           |   |           |
| N = No Sample   |                     |                      |               |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD    | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11.0            | S-4                 | 85%                  | 5<br>6        |  | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/trace silt and little clay. Light brown to light gray, medium dense to very stiff, damp to moist to wet. |           |
| 12.0            | S-5                 | 1.9<br>2.0<br>95%    | 8<br>9<br>11  |  | BG        |   |           |
| 13.0            |                     |                      |               |  |           |   |           |
| 14.0            | S-6                 | 1.8<br>2.0<br>90%    | 7<br>7<br>8   | 07   | BG        |   |           |
| 15.0            |                     |                      |               |  |           |   |           |
| 16.0            | S-7                 | 2.0<br>2.0<br>100%   | 8<br>11<br>12 |  | BG        |   |           |
| 17.0            |                     |                      | 10            |  |           |   |           |
| 18.0            |                     |                      |               |  |           | End of Boring<br>TD 17.0'   | 6.15      |
| 19.0            |                     |                      |               |  |           |   |           |
| 20.0            |                     |                      |               |  |           |   |           |
| 21.0            |                     |                      |               |  |           |   |           |
| 22.0            |                     |                      |               |  |           |   |           |
| 23.0            |                     |                      |               |  |           |   |           |
| 24.0            |                     |                      |               |  |           |   |           |
| 25.0            |                     |                      |               |  |           |   |           |
| 26.0            |                     |                      |               |  |           |   |           |
| 27.0            |                     |                      |               |  |           |   |           |
| 28.0            |                     |                      |               |  |           |   |           |
| 29.0            |                     |                      |               |  |           |   |           |

Match to Sheet 3

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB22

COORDINATES: EAST: 2502510.55

NORTH: 333393.52

ELEVATION: SURFACE: 24.39

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

|              |             |        |                          |             |        |               |                    |                  |      |
|--------------|-------------|--------|--------------------------|-------------|--------|---------------|--------------------|------------------|------|
| RIG: # 73    |             |        |                          |             |        |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS                   | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 8" air ham.<br>4 1/4" ID |             | 4-5-93 | 0-19'         | clear, cool (50's) | 18.0             |      |
| LENGTH       | 2.0'        |        | 5.0'                     |             |        |               |                    |                  |      |
| TYPE         | STD.        |        | HSA                      |             |        |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |                          |             |        |               |                    |                  |      |
| FALL         | 30"         |        |                          |             |        |               |                    |                  |      |
| STICK UP     |             |        |                          |             |        |               |                    |                  |      |

REMARKS: Boring sampled to 19.0' and grouted to surface. H2O background is .3 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|----------------|--------------|-----------|---|-----------|
| 1           | R-1                 | -                  | -              |              | -         | Concrete/subbase  |           |
| 2           | S-1                 | 1.5<br>2.0         | 12<br>19<br>22 | 01           | BG        | SILTY SAND, fine grained.<br>Brown to dark brown, dense damp                                  |           |
| 3           |                     | 75%                | 20             |              |           |   |           |
| 4           | S-2                 | 1.4<br>2.0         | 9<br>15<br>22  |              | BG        |   |           |
| 5           |                     | 70%                | 19             |              |           |   |           |
| 6           | S-3                 | 1.7<br>2.0         | 4<br>9<br>7    |              | BG        | SAND, fine grained w/ trace silt. Light brown to brown, dense to medium dense to loose, damp. |           |
| 7           |                     | 85%                | 8              |              |           |   |           |
| 8           | S-4                 | 1.5<br>2.0         | 2<br>3<br>5    |              | BG        |   |           |
| 9           |                     | 75%                | 7              |              |           |   |           |
|             | S-5                 | 1.6<br>2.0         | 4<br>6         |              | BG        |   |           |
|             |                     | 80%                |                |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 1-1N-SB22

SHEET 1 OF 2



# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-IN-SB22

| SAMPLE TYPE |                     |                      |                |              |           | DEFINITIONS  |      | Elevation |
|-------------|---------------------|----------------------|----------------|--------------|-----------|--|------|-----------|
| Depth (Ft.) | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description   |      |           |
|             |                     |                      |                |              |           |  |      |           |
| 11          | 11.0 S-5            | 80%                  | 7<br>8         |              | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/ trace silt. Light brown, medium dense to dens, damp to moist to wet. |      |           |
| 12          | S-6                 | 1.4                  | 3<br>5<br>11   | 06           | BG        |  |      |           |
| 13          | 13.0                | 70%                  | 15             |              |           |  |      |           |
| 14          | S-7                 | 1.7<br>2.0           | 15<br>24<br>25 |              | BG        |  |      |           |
| 15          | 15.0                | 85%                  | 39             |              |           |  |      |           |
| 16          | S-8                 | 1.4<br>2.0           | 11<br>13       | 08           | BG        |  |      |           |
| 17          | 17.0                | 70%                  | 11             |              |           |  |      |           |
| 18          | S-9                 | 1.3<br>2.0           | 5<br>6<br>6    |              | BG        |  |      |           |
| 19          | 19.0                | 65%                  | 7              |              |           |  |      |           |
| 20          |                     |                      |                |              |           | End of Boring<br>TD 19.0'  | 5.39 |           |
| 21          |                     |                      |                |              |           |  |      |           |
| 22          |                     |                      |                |              |           |  |      |           |
| 23          |                     |                      |                |              |           |  |      |           |
| 24          |                     |                      |                |              |           |  |      |           |
| 25          |                     |                      |                |              |           |  |      |           |
| 26          |                     |                      |                |              |           |  |      |           |
| 27          |                     |                      |                |              |           |  |      |           |
| 28          |                     |                      |                |              |           |  |      |           |
| 29          |                     |                      |                |              |           |  |      |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 1-IN-SB22

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: I-11-SB23

COORDINATES: EAST: 2502579.72

NORTH: 333364.73

ELEVATION: SURFACE: 24.54

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

|              |             |        |                          |             |        |               |                      |                  |      |
|--------------|-------------|--------|--------------------------|-------------|--------|---------------|----------------------|------------------|------|
| RIG: #73     |             |        |                          |             |        |               |                      |                  |      |
|              | SPLIT SPOON | CASING | AUGERS                   | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER              | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 8" air ham.<br>4 1/4" ID |             | 4-5-94 | 0-19'         | clear<br>cool (50's) | 17.5             |      |
| LENGTH       | 2.0'        |        | 5.0'                     |             |        |               |                      |                  |      |
| TYPE         | STD.        |        | HSA                      |             |        |               |                      |                  |      |
| HAMMER WT.   | 140#        |        |                          |             |        |               |                      |                  |      |
| FALL         | 30"         |        |                          |             |        |               |                      |                  |      |
| STICK UP     |             |        |                          |             |        |               |                      |                  |      |

REMARKS: Boring sampled to 19.0' and grouted to surface. H2O background is .2 ppm.

**SAMPLE TYPE**

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | R-1                 | -                  | -          |              | -         | Concrete/Subbase   |           |
| 2           | S-1                 | 1.3<br>2.0         | 7<br>19    | 01           | BG        | SILTY SAND, fine grained. Brown, dense, damp. Yellow staining at top only.                         |           |
| 3           |                     | 65%                | 24         |              |           |  |           |
| 4           | S-2                 | 1.5<br>2.0         | 12<br>14   |              | BG        | SAND, fine grained w/ trace silt. Brown to dark brown to light brown, medium dense to loose, damp. |           |
| 5           |                     | 75%                | 12         |              |           |  |           |
| 6           | S-3                 | 1.5<br>2.0         | 7<br>10    |              | BG        |  |           |
| 7           |                     | 75%                | 10         |              |           |  |           |
| 8           | S-4                 | 1.3<br>2.0         | 2<br>5     |              | BG        |  |           |
| 9           |                     | 65%                | 3          |              |           |  |           |
| 10          | S-5                 | 1.3<br>2.0         | 3<br>4     | 05           | BG        |  |           |
|             |                     | 65%                |            |              |           | Match to Sheet 2   |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: I-11-SB23

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB23

| 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            |                      |            | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |            |  |           |   |           |
| N = No Sample   |                     |                      |            |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11.0            | S-5                 | 65%                  | 5<br>6     | 05   | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/ trace silt. Light brown, medium dense to loose, damp to moist to wet. |           |
| 12.0            | S-6                 | 1.4<br>2.0           | 3<br>5     |  |           |   |           |
| 13.0            |                     | 70%                  | 8          |  | BG        |   |           |
| 14.0            | S-7                 | 1.5<br>2.0           | 3<br>4     |  |           |   |           |
| 15.0            |                     | 75%                  | 8          |  | BG        |   |           |
| 16.0            | S-8                 | 1.6<br>2.0           | 7<br>11    |  |           |   |           |
| 17.0            |                     | 80%                  | 22         | 08   | BG        |   |           |
| 18.0            | S-9                 | 1.6<br>2.0           | 4<br>6     |  |           |   |           |
| 19.0            |                     | 80%                  | 18<br>14   |  | BG        |   |           |
| 20.0            |                     |                      |            |  |           | End of Boring<br>TD 19.0'   | S.54      |
| 21.0            |                     |                      |            |  |           |   |           |
| 22.0            |                     |                      |            |  |           |   |           |
| 23.0            |                     |                      |            |  |           |   |           |
| 24.0            |                     |                      |            |  |           |   |           |
| 25.0            |                     |                      |            |  |           |   |           |
| 26.0            |                     |                      |            |  |           |   |           |
| 27.0            |                     |                      |            |  |           |   |           |
| 28.0            |                     |                      |            |  |           |   |           |
| 29.0            |                     |                      |            |  |           |   |           |
| 30.0            |                     |                      |            |  |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 1-1N-SB23

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB24

COORDINATES: EAST: 2502625.56

NORTH: 333517.69

ELEVATION: SURFACE: 22.97

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

|              |             |        |           |             |         |               |                       |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3 1/4" ID |             | 3-29-94 | 0-17'         | overcast, cool (50's) | 16.0             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                       |                  |      |
| FALL         | 30"         |        |           |             |         |               |                       |                  |      |
| STICK UP     |             |        |           |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. H<sub>2</sub>O background is .2 ppm

### SAMPLE TYPE

- S = Split Spoon      A = Auger
- T = Shelby Tube      W = Wash
- R = Air Rotary      C = Core
- D = Denison      P = Piston
- N = No Sample

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | N                   | -                  | -          |              | -         | NO SAMPLE  |           |
| 2           |                     |                    |            | 01           | BG        |  |           |
| 3           |                     |                    |            |              |           |  |           |
| 4           | S-1                 | 1.7<br>2.0         | 23<br>23   |              | BG        | SAND, fine grained w/ trace silt. Brown to gray to dark brown to light brown, very loose to dense to medium dense, damp. |           |
| 5           |                     | 85%                | 14         |              |           |  |           |
| 6           | S-2                 | 2.0<br>2.0         | 5<br>6     |              | BG        |  |           |
| 7           |                     | 100%               | 10         |              |           |  |           |
| 8           | S-3                 | 1.4<br>2.0         | 3<br>5     | 04           | BG        |  |           |
| 9           |                     | 70%                | 10         |              |           |  |           |
|             | S-4                 | 1.6<br>2.0         | 7<br>8     |              | BG        |  |           |
|             |                     | 80%                |            |              |           |  |           |
|             |                     |                    |            |              |           |  |           |
|             |                     |                    |            |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 1-1N-SB24

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: Z-1N-SB24

| 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            |                      |            | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |            |  |           |   |           |
| N = No Sample   |                     |                      |            |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11.0            | S-4                 | 80%                  | 10<br>12   |  | BG        | Continued from Sheet 1<br><br>SAWD, fine grained w/ trace silt. Light brown to brown, medium dense, damp to moist to wet. |           |
| 12.0            | S-5                 | 1.7<br>2.0           | 5<br>5     |  | BG        |   |           |
| 13.0            |                     | 85%                  | 8          |  |           |   |           |
| 14.0            | S-6                 | 1.8<br>2.0           | 6<br>12    | 07   | BG        |   |           |
| 15.0            |                     | 90%                  | 22         |  |           |   |           |
| 16.0            | S-7                 | 2.0<br>2.0           | 12<br>17   |  | BG        |   |           |
| 17.0            |                     | 100%                 | 23<br>25   |  |           |   |           |
| 18.0            |                     |                      |            |  |           | End of Boring<br>TD: 17.0'  | 5.97      |
| 19.0            |                     |                      |            |  |           |   |           |
| 20.0            |                     |                      |            |  |           |   |           |
| 21.0            |                     |                      |            |  |           |   |           |
| 22.0            |                     |                      |            |  |           |   |           |
| 23.0            |                     |                      |            |  |           |   |           |
| 24.0            |                     |                      |            |  |           |   |           |
| 25.0            |                     |                      |            |  |           |   |           |
| 26.0            |                     |                      |            |  |           |   |           |
| 27.0            |                     |                      |            |  |           |   |           |
| 28.0            |                     |                      |            |  |           |   |           |
| 29.0            |                     |                      |            |  |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: Z-1N-SB24

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB25

COORDINATES: EAST: 2502748.13

NORTH: 333523.52

ELEVATION: SURFACE: 22.49

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

|              |             |        |         |             |         |               |                      |                  |      |
|--------------|-------------|--------|---------|-------------|---------|---------------|----------------------|------------------|------|
| RIG: #220    |             |        |         |             |         |               |                      |                  |      |
|              | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER              | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3/4" ID |             | 3-29-94 | 0-15'         | overcast cool (50's) | 14.5             |      |
| LENGTH       | 2.0'        |        | 5.0'    |             |         |               |                      |                  |      |
| TYPE         | STD.        |        | HSA     |             |         |               |                      |                  |      |
| HAMMER WT.   | 140#        |        |         |             |         |               |                      |                  |      |
| FALL         | 30"         |        |         |             |         |               |                      |                  |      |
| STICK UP     |             |        |         |             |         |               |                      |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. HNu background is .3 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--------------------|-----------|
| 1           | N                   | -                  | -          |              | -         | No SAMPLE          |           |
| 2           |                     | -                  | -          | 01           | BG        |                    |           |
| 3           |                     | 1.8                | 12         |              |           |                    |           |
| 4           | S-1                 | 2.0                | 9          |              | BG        |                    |           |
| 5           |                     | 90%                | 9          |              |           |                    |           |
| 6           |                     | 1.8                | 7          |              |           |                    |           |
| 7           | S-2                 | 2.0                | 8          |              | BG        |                    |           |
| 8           |                     | 90%                | 9          |              |           |                    |           |
| 9           |                     | 1.4                | 12         |              |           |                    |           |
| 10          | S-3                 | 2.0                | 4          |              | BG        |                    |           |
| 11          |                     | 5                  | 5          |              |           |                    |           |
| 12          |                     | 70%                | 9          |              |           |                    |           |
| 13          |                     | 1.6                | 4          |              |           |                    |           |
| 14          | S-4                 | 2.0                | 4          |              | BG        |                    |           |
| 15          |                     | 80%                | 4          |              |           |                    |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 1-1N-SB25

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-IN-5825

| 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            |                      |                   |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                      |                   |              |           |   |           |
| N = No Sample   |                     |                      |                   |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD        | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11              | 11.0 S-4            | 80%                  | 5<br>5            |              | BG        | Continued from Sheet 1  |           |
| 12              | S-5                 | 1.8<br>2.0<br>90%    | 3<br>4<br>6<br>13 | 06           | BG        | SAND, fine grained w/ trace silt. Light brown, loose to medium dense, damp to moist to wet. |           |
| 13              | 13.0                |                      |                   |              |           |   |           |
| 14              | S-6                 | 1.9<br>2.0<br>95%    | 5<br>6<br>5<br>6  |              | BG        |   |           |
| 15              | 15.0                |                      |                   |              |           | End of Boring<br>TD 15.0'   | 7.49      |
| 16              |                     |                      |                   |              |           |   |           |
| 18              |                     |                      |                   |              |           |   |           |
| 19              |                     |                      |                   |              |           |   |           |
| 20              |                     |                      |                   |              |           |   |           |
| 21              |                     |                      |                   |              |           |   |           |
| 22              |                     |                      |                   |              |           |   |           |
| 23              |                     |                      |                   |              |           |   |           |
| 24              |                     |                      |                   |              |           |   |           |
| 25              |                     |                      |                   |              |           |   |           |
| 26              |                     |                      |                   |              |           |   |           |
| 27              |                     |                      |                   |              |           |   |           |
| 28              |                     |                      |                   |              |           |   |           |
| 29              |                     |                      |                   |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 1-IN-5825

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: I-1N-5826

COORDINATES: EAST: 2502729.50

NORTH: 333627.62

ELEVATION: SURFACE: 20.16

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

|              |             |        |         |             |         |               |                       |                  |      |
|--------------|-------------|--------|---------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: # 220   |             |        |         |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3/4" ID |             | 3-29-94 | 0-11'         | overcast, cool (50's) | 11.0             |      |
| LENGTH       | 2.0'        |        | 5.0'    |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA     |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |         |             |         |               |                       |                  |      |
| FALL         | 30"         |        |         |             |         |               |                       |                  |      |
| STICK UP     |             |        |         |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 11.0' and grouted to surface. Hsu background is .3 ppm

**SAMPLE TYPE**

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--------------------|-----------|
| 1           | N                   | -                  | -          |              | -         | NO SAMPLE          |           |
| 2           |                     | -                  | -          | 01           | BG        |                    |           |
| 3           |                     | 1.8 / 2.0          | 10         |              | BG        |                    |           |
| 4           | S-1                 | 90%                | 5          |              | BG        |                    |           |
| 5           |                     | 2.0 / 2.0          | 6          |              | BG        |                    |           |
| 6           | S-2                 | 100%               | 9          |              | BG        |                    |           |
| 7           |                     | 1.6 / 2.0          | 4          |              | BG        |                    |           |
| 8           | S-3                 | 80%                | 4          | 04           | BG        |                    |           |
| 9           |                     | 1.6 / 2.0          | 4          |              | BG        |                    |           |
|             | S-4                 | 80%                | 3          |              | BG        |                    |           |

SAND, fine grained w/ trace silt. Dark brown to brown to light brown, very loose, to medium dense to loose, damp to moist to wet.

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: I-1N-5826

SHEET 1 OF 2



# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-5826

| 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            |                      |            |              |           | PID = Photoionization Detector                             |           |
| D = Denison      | P = Piston          |                      |            |              |           |  |           |
| N = No Sample    |                     |                      |            |              |           |  |           |
| Depth (Ft.)      | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11               | 110 S-4             | 80%                  | 3<br>5     |              | BG        | Continued from Sheet 1                                     | 9.0       |
| 12               |                     |                      |            |              |           | End of Boring<br>TD 11.0'                                  |           |
| 13               |                     |                      |            |              |           |  |           |
| 14               |                     |                      |            |              |           |  |           |
| 15               |                     |                      |            |              |           |  |           |
| 16               |                     |                      |            |              |           |  |           |
| 18               |                     |                      |            |              |           |  |           |
| 19               |                     |                      |            |              |           |  |           |
| 20               |                     |                      |            |              |           |  |           |
| 21               |                     |                      |            |              |           |  |           |
| 22               |                     |                      |            |              |           |  |           |
| 23               |                     |                      |            |              |           |  |           |
| 24               |                     |                      |            |              |           |  |           |
| 25               |                     |                      |            |              |           |  |           |
| 26               |                     |                      |            |              |           |  |           |
| 27               |                     |                      |            |              |           |  |           |
| 28               |                     |                      |            |              |           |  |           |
| 29               |                     |                      |            |              |           |  |           |
| Match to Sheet 3 |                     |                      |            |              |           |  |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 1-1N-5826

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FCLDA RIFES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-3827A  
 COORDINATES: EAST: 2502589.96 NORTH: 333761.50  
 ELEVATION: SURFACE: 18.08 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |                |               |             |                                |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |                |               |             |                                |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER     | TOP OF CASING WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 7/8" ID</u> |        | <u>3 1/4" ID</u> |             | <u>3-27-94</u> | <u>13</u>     | <u>RAIN</u> | <u>11</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: BACKGROUND (BG) HWU = .3 PPM

| DRILL RECORD |              |  |                      |                    |             |           | VISUAL DESCRIPTION  |              |                     |   |              |           |
|--------------|--------------|--|----------------------|--------------------|-------------|-----------|---|--------------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>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<br>ROCK | ELEVATION |
|              |              |  |                      |                    |             |           | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color        | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |              |           |
| 1            |              |  |                      |                    |             |           | <u>2" ASPHALT</u>   |              |                     |   |              |           |
| 2            | <u>LAB</u>   | <u>S-1</u>                             | <u>83/2</u>          | <u>10</u>          | <u>01</u>   |           | <u>13" FILL - SAND-F AND GRAVEL</u>                             | <u>GRAY</u>  |                     |   |              |           |
| 3            |              |  | <u>42%</u>           | <u>22</u>          | <u>BG</u>   |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u> | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 4            |              | <u>S-2</u>                             | <u>1.16/2</u>        | <u>24</u>          |             |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u> | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 5            |              |  | <u>58%</u>           | <u>36</u>          | <u>BG</u>   |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u> | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 6            |              | <u>S-3</u>                             | <u>1.41/2</u>        | <u>8</u>           |             |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u> | <u>MED DENSE</u>    | <u>DRY</u>  |              |           |
| 7            |              |  | <u>71%</u>           | <u>15</u>          | <u>BG</u>   |           | <u>SAND-FINE TRACE SILT</u>                                     | <u>WHITE</u> | <u>MED DENSE</u>    | <u>DRY</u>  |              |           |
| 8            |              | <u>S-4</u>                             | <u>1.25/2</u>        | <u>22</u>          |             |           | <u>SAND-FINE AND SILT</u>                                       | <u>BROWN</u> | <u>MED DENSE</u>    | <u>DRY MOTTLED</u>  |              |           |
| 9            |              |  | <u>63%</u>           | <u>25</u>          | <u>BG</u>   |           | <u>SAND-FINE AND SILT</u>                                       | <u>BROWN</u> | <u>MED DENSE</u>    | <u>DRY</u>  |              |           |
| 10           | <u>LAB</u>   | <u>S-5</u>                             | <u>1.16/2</u>        | <u>4</u>           | <u>05</u>   |           | <u>SAND-FINE AND SILT</u>                                       | <u>BROWN</u> | <u>MED DENSE</u>    | <u>MOIST</u>  |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A TUA  
 BORING NO.: 1-IN-3827 SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: SITE 1 ECLDA RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-1N-5827A

| 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 |           |
| 9-11         | LAB  | S-5                     | 58%        | 6<br>8             |              | BG  | CONTINUED<br>3" SAND-FINE AND S.I.T<br>WATER @ 11"              | WHITE               | MED DENSE   | WET   |           |
| 12           |      | S-6                     | 2/8        | 3<br>2<br>2        |              | BG  | 4" SAND-FINE AND S.I.T<br>CLAY TRAIL SAND-FINE                  | BROWN<br>ORANGE     | LOOSE   | WET   |           |
| 13           |      |                         | 100%       | 4                  |              |   | END OF BORING 13'   |                     |   |   | 5.08      |
| 4            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 5            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 6            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 7            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 8            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 9            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 0            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 1            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 2            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 3            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 4            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 5            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 6            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 7            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 8            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 9            |      |                         |            |                    |              |   |   |                     |   |   |           |
| 0            |      |                         |            |                    |              |   |   |                     |   |   |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-1N-5827 SHEET 2 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FGLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-1N-5828  
 COORDINATES: EAST: 2502745.11 NORTH: 333739.70  
 ELEVATION: SURFACE: 17.54 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |                |               |                     |                                |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-29-94</u> | <u>11</u>     | <u>SUNNY + WARM</u> | <u>9'</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: BACKGROUND (BG) HNU = 0.2 ppm

| DRILL RECORD |                |                                      |                      |                    |             |           | VISUAL DESCRIPTION  |                  |                     |   |              |           |
|--------------|----------------|--------------------------------------|----------------------|--------------------|-------------|-----------|---|------------------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK   | Sample ID<br>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<br>ROCK | ELEVATION |
|              |                |                                      |                      | RQD (Ft. & %)      | Pen. Rate   |           | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color            | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |              |           |
| 1            |                |                                      |                      |                    |             |           | <u>2" ASPHALT</u>   |                  |                     |   |              |           |
| 2            | <u>LAB 5-1</u> |                                      | <u>83/2</u>          | <u>10</u>          | <u>01</u>   | <u>BG</u> | <u>1' FILL - SAND-FINE AND GRAVEL</u>                           | <u>LT. BROWN</u> | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 3            |                |                                      | <u>42%</u>           | <u>42</u>          |             |           | <u>SAND-FINE AND SILT</u>                                       |                  |                     |   |              |           |
| 4            | <u>5-2</u>     |                                      | <u>75/2</u>          | <u>12</u>          |             | <u>.3</u> | <u>TRACE GRAVEL - MEDIUM</u>                                    | <u>BROWN</u>     | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 5            |                |                                      | <u>37%</u>           | <u>23</u>          |             |           | <u>SAND-FINE LITTLE CLAY</u>                                    | <u>BROWN</u>     | <u>DENSE</u>        | <u>DRY</u>  |              |           |
| 6            | <u>5-3</u>     |                                      | <u>1/2</u>           | <u>10</u>          |             |           | <u>SAND-FINE LITTLE SILT</u>                                    | <u>BROWN</u>     | <u>MED DENSE</u>    | <u>DRY</u>  |              |           |
| 7            |                |                                      | <u>50%</u>           | <u>13</u>          |             |           |   | <u>3" WHITE</u>  |                     |   |              |           |
| 8            | <u>LAB 5-4</u> |                                      | <u>116/2</u>         | <u>5</u>           | <u>04</u>   | <u>BG</u> | <u>SAND-FINE LITTLE CLAY</u>                                    | <u>LT. GRAY</u>  | <u>STIFF</u>        | <u>MOIST</u>  |              |           |
| 9            |                |                                      | <u>58%</u>           | <u>7</u>           |             |           |   |                  |                     |   |              |           |
| 10           | <u>5-5</u>     |                                      | <u>133/2</u>         | <u>3</u>           |             | <u>BG</u> | <u>WATER @ 9'</u>   | <u>WHITE</u>     | <u>MED. STIFF</u>   | <u>WET</u>  |              |           |
|              |                |                                      | <u>67%</u>           | <u>4</u>           |             |           | <u>SAND-FINE AND SILT</u>                                       |                  |                     |   |              |           |
|              |                |                                      |                      |                    |             |           | <u>TRACE CLAY</u>   |                  |                     |   |              |           |
|              |                |                                      |                      |                    |             |           | <u>END OF BORING 11'</u>  |                  |                     |   |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-1N-5828 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 ECLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62476-231 BORING NO.: 1-IN-3589  
 COORDINATES: EAST: 2502673.6400 NORTH: 333962.1530  
 ELEVATION: SURFACE: 148253 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |  |                |               |             |                                |      |
|------------------|------------------|--------|----------------|--|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</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>3-28-94</u> | <u>9</u>      | <u>RAIN</u> | <u>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: BACKGROUND (BG) HNU = 2

| 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            | LAB  | 00                       | 100%       | -                  | 01          | BG        | SAND-F SOME SILT  | Brown    |                     | Dry   |                |
| 2            |      | S-1                      |            |                    |             | BG        | OBSTRUCTION ENCOUNTERED<br>NO SAMPLE                            |          |                     |   |                |
| 3            |      |                          |            |                    |             |           |   |          |                     |   |                |
| 4            | LAB  | S-2                      |            | 10<br>4            | 02          | .4        | SAND-FINE AND SILT  | GRAY     | MED DENSE           | DAMP  |                |
| 5            |      |                          | 50%        | 6<br>9             |             |           | WATER @ 5'  |          |                     |   |                |
| 6            |      | S-3                      |            | 6<br>2             |             | BG        | SAND-FINE AND SILT  | LT BROWN | LOOSE               | WET   |                |
| 7            |      |                          | 100%       | 2<br>3             |             |           |   |          |                     |   |                |
| 8            |      | S-4                      |            | 1.33<br>2          |             | BG        | SAND-FINE AND SILT  | BROWN    | LOOSE               | WET   |                |
| 9            |      |                          | 67%        | 2<br>4<br>5        |             |           |   |          |                     |   |                |
| 10           |      |                          |            |                    |             |           | END OF BORING 9'  |          |                     |   | 8.5.           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-3589 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FCLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-SB30  
 COORDINATES: EAST: 2502847.82 NORTH: 333943.43  
 ELEVATION: SURFACE: 14.56 TOP OF PVC CASING: \_\_\_\_\_

|                  |                |        |                |  |                |               |             |                                |      |
|------------------|----------------|--------|----------------|--|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</u> |                |        |                |  | DATE           | PROGRESS (FT) | WEATHER     | TOP OF CASING WATER DEPTH (FT) | TIME |
| SPLIT SPOON      | CASING         | AUGERS | CORE BARREL    |  |                |               |             |                                |      |
| SIZE (DIAM.)     | <u>3/8" ID</u> |        | <u>3/4" ID</u> |  | <u>3-29-94</u> | <u>11</u>     | <u>RAIN</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: BACKGROUND (BG) HNU = .4

| DRILL RECORD |              |  |                            |                             |              |              | VISUAL DESCRIPTION  |       |                           |  |              |           |
|--------------|--------------|--|----------------------------|-----------------------------|--------------|--------------|---|-------|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No<br>Samp.) | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab. Class.  |              | Classification<br>(Grain Size, Principal<br>Constituents, Etc.) | Color | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |  |                            | RQD<br>(Ft. &<br>%)         | Pen.<br>Rate | PID<br>(ppm) |   |       |                           |  |              |           |
| 1            | LAB          | 00   | 100%                       | -                           | 00           | BG           | SAND-FINE AND SILT  | BROWN |                           | DRY  |              |           |
| 2            |              | S-1  | 1.41<br>2                  | 12                          |              | BG           | SAND-FINE AND SILT  | GRAY  | MED DENSE                 | DAMP   |              |           |
| 3            |              |  | 71%                        | 15                          |              |              |   |       |                           |  |              |           |
| 4            |              | S-2  | 1.62<br>2                  | 10                          |              | BG           | SAND-F AND SILT<br>5" CLAY LITTLE SILT TRACE<br>SAND-FINE       | WHITE | STIFF                     | DAMP   |              |           |
| 5            |              |  | 83%                        | 8                           |              |              |   |       |                           |  |              |           |
| 6            | LAB          | S-3  | 1/2                        | 3                           | 03           | BG           | SILT AND SAND-FINE  | BROWN | MED DENSE                 | DAMP   |              |           |
| 7            |              |  | 100%                       | 2                           |              |              | WATER @ 7'  |       |                           |  |              |           |
| 8            |              | S-4  | 1.25<br>2                  | 3                           |              | BG           | SAND-FINE AND SILT  | BROWN | LOOSE                     | MOIST  |              |           |
| 9            |              |  | 63%                        | 5                           |              |              |   |       |                           |  |              |           |
| 10           |              | S-5  | 1.32<br>2                  | 3                           |              | BG           | SAND-FINE + SILT  | BROWN | VERY LOOSE                | WET  |              |           |
|              |              |  | 67%                        | 1                           |              |              | END OF BORING 11'   |       |                           |  |              | 3.5C      |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-SB30 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FCLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-5831  
 COORDINATES: EAST: 2502825.02 NORTH: 333793.71  
 ELEVATION: SURFACE: 17.05 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |  |                |               |              |                                |      |
|------------------|------------------|--------|----------------|--|----------------|---------------|--------------|--------------------------------|------|
| RIG: <u>B-57</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>3-29-94</u> | <u>11</u>     | <u>SUNNY</u> | <u>9</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: BACKGROUND (BG) HNU = 0.2 PPM

| DRILL RECORD |              |                                      |                      |                    |             |           | VISUAL DESCRIPTION  |                   |                     |   |                |
|--------------|--------------|--------------------------------------|----------------------|--------------------|-------------|-----------|---|-------------------|---------------------|---|----------------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-No. (N = No Samp.) | Samp. Rec. (Ft. & %) | SPT Blows Per 0.5' | Lab. Class. |           | Classification (Grain Size, Principal Constituents, Etc.) | Color             | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL ELEVATION |
|              |              |                                      |                      | RQD (Ft. & %)      | Pen. Rate   | PID (ppm) |   |                   |                     |   |                |
| 1            |              |                                      |                      |                    |             |           | <u>3" ASPHALT</u>   |                   |                     |   |                |
| 2            | LAB          | S-1                                  | <u>83/2</u>          | 10                 | 01          | BG        | <u>1" FILL - SAND-FINE AND GRAVEL</u>                     | <u>GRAY</u>       |                     |   |                |
| 3            |              |                                      | <u>42%</u>           | 18                 |             |           | <u>SAND-FINE TRACE SILT</u>                               | <u>LT BROWN</u>   | <u>DENSE</u>        | <u>DRY</u>  |                |
| 4            |              | S-2                                  | <u>123/2</u>         | 20                 |             |           | <u>SAND-FINE TRACE SILT</u>                               | <u>LT BROWN</u>   | <u>MED DENSE</u>    | <u>DRY</u>  |                |
| 5            |              |                                      | <u>63%</u>           | 6                  |             | 0.4       | <u>SAND-FINE SOME SILT</u>                                | <u>BROWN</u>      | <u>LOOSE</u>        | <u>DAMP</u>   |                |
| 6            |              | S-3                                  | <u>1.16/2</u>        | 3                  |             | BG        | <u>SAND-FINE TRACE SAND-FINE</u>                          | <u>BLUE GREEN</u> |                     | <u>DAMP</u>   |                |
| 7            |              |                                      | <u>58%</u>           | 4                  |             |           | <u>SAND-FINE SOME CLAY TRACE SILT</u>                     | <u>LT GRAY</u>    | <u>STIFF</u>        | <u>MOIST MOTTLED ORANGE</u>   |                |
| 8            | LAB          | S-4                                  | <u>1.33/2</u>        | 7                  | 04          | BG        | <u>WATER @ 9"</u>   |                   |                     |   |                |
| 9            |              |                                      | <u>67%</u>           | 4                  |             | BG        | <u>CLAY LITTLE SAND-FINE</u>                              | <u>GRAY</u>       | <u>STIFF</u>        | <u>WET MOTTLED ORANGE</u>   |                |
| 10           |              | S-5                                  | <u>1.75/2</u>        | 4                  |             | BG        | <u>END OF BORING 11"</u>                                  |                   |                     |   | 6.05           |
|              |              |                                      | <u>88%</u>           | 5                  |             |           |   |                   |                     |   |                |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-5831 SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB32

COORDINATES: EAST: 2502717.27

NORTH: 333364.94

ELEVATION: SURFACE: 24.70

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

|              |             |        |                          |             |        |               |                       |                  |      |
|--------------|-------------|--------|--------------------------|-------------|--------|---------------|-----------------------|------------------|------|
| RIG: #73     |             |        |                          |             |        |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS                   | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 8" air ham.<br>4 1/4" ID |             | 4-5-94 | 0-17'         | clear,<br>cool (50's) | 16.0             |      |
| LENGTH       | 2.0'        |        | 5.0'                     |             |        |               |                       |                  |      |
| TYPE         | STD.        |        | HSA                      |             |        |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |                          |             |        |               |                       |                  |      |
| FALL         | 30"         |        |                          |             |        |               |                       |                  |      |
| STICK UP     |             |        |                          |             |        |               |                       |                  |      |

REMARKS: Boring sample to 17.0' and grouted to surface. H2O background is .3ppm

**SAMPLE TYPE**

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | 1.0 R-1             | -                  | -          |              | -         | Concrete/Subbase  |           |
| 2           | 2.0 S-1             | 1.6<br>2.0         | 7<br>13    | 01           | BG        | SILTY SAND, fine grained. Dark brown to brown, dense, damp.   |           |
| 3           | 3.0                 | 80%                | 14         |              |           |   |           |
| 4           | 4.0 S-2             | 1.6<br>2.0         | 9<br>8     |              | BG        | SAND, fine grained w/ trace silt. Brown to light brown, loose to medium dense, damp. Oxidation (orange) staining 8.5 to 9.0' (bgs) only |           |
| 5           | 5.0                 | 80%                | 6          |              |           |   |           |
| 6           | 6.0 S-3             | 1.5<br>2.0         | 2<br>4     |              | BG        |   |           |
| 7           | 7.0                 | 75%                | 4          |              |           |   |           |
| 8           | 8.0 S-4             | 1.6<br>2.0         | 4<br>6     | 04           | BG        |   |           |
| 9           | 9.0                 | 80%                | 7          |              |           |   |           |
|             | S-5                 | 1.5<br>2.0         | 5<br>6     |              | BG        |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 1-1N-SB32

SHEET 1 OF 2



# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB32

| 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            |                      |                  |              |           | PID = Photoionization Detector   |           |
| D = Denison     | P = Piston          |                      |                  |              |           |  |           |
| N = No Sample   |                     |                      |                  |              |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD       | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11.0            | S-5                 | 75%                  | 7<br>10          |              | BG        | Continued from Sheet 1   |           |
| 12.0            | S-6                 | 1.6<br>2.0<br>80%    | 6<br>7<br>5<br>6 |              | BG        | SAND, fine grained w/<br>trace silt. Light brown,<br>medium dense to loose,<br>damp to moist to wet. |           |
| 13.0            |                     |                      |                  |              |           |  |           |
| 14.0            | S-7                 | 1.8<br>2.0<br>90%    | 2<br>4<br>4<br>5 | 07           | BG        |  |           |
| 15.0            |                     |                      |                  |              |           |  |           |
| 16.0            | S-8                 | 1.8<br>2.0<br>90%    | 5<br>6<br>6<br>8 |              | BG        |  |           |
| 17.0            |                     |                      |                  |              |           | End of Boring<br>TD 17.0'  | 7.70      |
| 18              |                     |                      |                  |              |           |  |           |
| 19              |                     |                      |                  |              |           |  |           |
| 20              |                     |                      |                  |              |           |  |           |
| 21              |                     |                      |                  |              |           |  |           |
| 22              |                     |                      |                  |              |           |  |           |
| 23              |                     |                      |                  |              |           |  |           |
| 24              |                     |                      |                  |              |           |  |           |
| 25              |                     |                      |                  |              |           |  |           |
| 26              |                     |                      |                  |              |           |  |           |
| 27              |                     |                      |                  |              |           |  |           |
| 28              |                     |                      |                  |              |           |  |           |
| 29              |                     |                      |                  |              |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 1-1N-SB32

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITEL FCLDA RI/FS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-IN-5833

COORDINATES: EAST: 2502754.7500

NORTH: 233381.2810

ELEVATION: SURFACE: 25.3267

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

|                  |                  |        |                  |             |                |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |                |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3 1/4" ID</u> |             | <u>4-18-94</u> | <u>17</u>     | <u>SUNNY</u> | <u>15</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: BACKGROUND (BG) HNU = 0.2 PPM

### SAMPLETYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

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

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & %      | SPT or RQD                          | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|-------------------------|-------------------------------------|--------------------------|-----------|---|-----------|
|             |                     |                         |                                     |                          |           | <u>2" ASPHALT</u>   |           |
| 1           |                     |                         |                                     |                          |           | <u>1.5' ALL SAND-FINE AND GRAVEL - FINE</u>                                   |           |
| 2           | LAB 5-1             | <u>2</u>                | <u>22</u><br><u>25</u><br><u>30</u> | <u>01</u>                | <u>BG</u> | <u>SAND-FINE TRACE SILT</u><br><u>DRY. BROWN</u><br><u>VERY DENSE</u>         |           |
| 3           |                     | <u>100%</u>             | <u>36</u>                           |                          |           |   |           |
| 4           | 5-2                 | <u>1.5</u><br><u>2</u>  | <u>17</u><br><u>29</u><br><u>18</u> |                          | <u>BG</u> | <u>SAND-FINE TRACE SILT</u><br><u>DRY. WHITE + BROWN</u><br><u>VERY DENSE</u> |           |
| 5           |                     | <u>75%</u>              | <u>12</u>                           |                          |           |   |           |
| 6           | 5-3                 | <u>1.5</u><br><u>2</u>  | <u>3</u><br><u>4</u><br><u>5</u>    |                          | <u>BG</u> | <u>SAND-FINE TRACE SILT</u><br><u>DRY. TAN</u><br><u>LOOSE</u>                |           |
| 7           |                     | <u>75%</u>              | <u>6</u>                            |                          |           |   |           |
| 8           | LAB 5-4             | <u>1.60</u><br><u>2</u> | <u>3</u><br><u>3</u><br><u>4</u>    | <u>04</u>                | <u>BG</u> | <u>SAND-FINE TRACE SILT</u><br><u>DRY. TAN</u><br><u>LOOSE</u>                |           |
| 9           |                     | <u>79%</u>              | <u>5</u>                            |                          |           |   |           |
| 10          | 5-5                 | <u>1.41</u><br><u>2</u> | <u>3</u><br><u>5</u>                |                          | <u>BG</u> | <u>SAND-FINE TRACE SILT</u><br><u>DRY. TAN</u><br><u>MED DENSE</u>            |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: GENE BARNES

BORING NO.: 1-IN-5833

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: SITE 1 FCLDA RE/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-SB33

| 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   |                     |                      |            |                          |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description  | Elevation |
|                 | S-5                 | 71%                  | 8          |                          | BG        | CONTINUED   |           |
| 11              |                     | 1.6<br>2             | 9          |                          |           |   |           |
| 12              | S-6                 | 79%                  | 7          |                          | BG        | SAND-FINE TRACE S+T<br>DAMP. WHITE<br>MED DENSE               |           |
| 13              |                     | 1.4<br>2             | 9          |                          |           |   |           |
| 14              | LAB S-7             | 71%                  | 4          | 07                       | BG        | SAND-FINE TRACE S+T<br>MOIST. WHITE<br>MED DENSE              |           |
| 15              |                     | 1.6<br>2             | 6          |                          |           |   |           |
| 16              | S-8                 | 79%                  | 7          |                          | BG        | WATER @ 15'<br>SAND-FINE TRACE S+T<br>WET. WHITE<br>MED DENSE |           |
| 17              |                     |                      | 8          |                          |           | END OF BORING 17'   |           |
| 18              |                     |                      |            |                          |           |   |           |
| 19              |                     |                      |            |                          |           |   |           |
| 20              |                     |                      |            |                          |           |   |           |
| 21              |                     |                      |            |                          |           |   |           |
| 22              |                     |                      |            |                          |           |   |           |
| 23              |                     |                      |            |                          |           |   |           |
| 24              |                     |                      |            |                          |           |   |           |
| 25              |                     |                      |            |                          |           |   |           |
| 26              |                     |                      |            |                          |           |   |           |
| 27              |                     |                      |            |                          |           |   |           |
| 28              |                     |                      |            |                          |           |   |           |
| 29              |                     |                      |            |                          |           |   |           |
| 30              |                     |                      |            |                          |           |   |           |

DRILLING CO.: EMTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-SB33 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-N-SB34

COORDINATES: EAST: 2502852.37

NORTH: 333415.67

ELEVATION: SURFACE: 24.06

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

|                         |             |        |         |             |         |               |                           |                  |      |
|-------------------------|-------------|--------|---------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: <u>MOBILE B-61</u> |             |        |         |             |         |               |                           |                  |      |
|                         | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)            | 1-3/8" ID   |        | 3/4" ID |             | 3-29-94 | 0.0-17.0      | PTLY CLOUDY<br>BREEZY 65% | 15.0             |      |
| LENGTH                  | 2.0'        |        | 5.0'    |             |         |               |                           |                  |      |
| TYPE                    | STD.        |        | HSA     |             |         |               |                           |                  |      |
| HAMMER WT.              | 140#        |        |         |             |         |               |                           |                  |      |
| FALL                    | 30"         |        |         |             |         |               |                           |                  |      |
| STICK UP                |             |        |         |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. HNW background = 0.3 pp

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary       C = Core  
 D = Denison          P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1.0         |                     | -                  | -          |              |           | 0.0 to 0.2 ASPHALT WEARING/BINDER COURSE   |           |
| 1.4         | S-1                 | 100%               | 50.4       |              | BG        | SAND, fine grained, little crushed stone, light brown, very dense, damp                      |           |
| 2.0         | S-2                 | 0%                 | 25         | 01           | BL        | SAND, fine grained, little crushed stone, trace metal (nail), light brown, very dense, damp. |           |
| 3.0         |                     | 0%                 | 50         |              |           | * SEE NOTE @ END OF BORING LOG   |           |
| 3.5         |                     |                    |            |              |           | AUGERED FROM 3.0' TO 3.5'  |           |
| 4.0         | S-3                 | 1.4                | 25         |              | BL        | SAND, fine grained, trace gravel, trace silt, brown, very dense, damp                        |           |
| 5.0         |                     | 1.5                | 37         |              |           |  |           |
|             |                     | 93%                | 24         |              |           |  |           |
| 6.0         | S-4                 | 1.8                | 4          | 03           | BL        | SAND, fine grained, trace to little silt, brown, medium dense, damp                          |           |
| 7.0         |                     | 2.0                | 8          |              |           |  |           |
|             |                     | 90%                | 13         |              |           |  |           |
| 8.0         | S-5                 | 1.5                | 4          |              | BL        | SAND, fine grained, little to some silt, brown to white, medium dense, damp                  |           |
| 9.0         |                     | 2.0                | 8          |              |           |  |           |
|             |                     | 75%                | 13         |              |           |  |           |
|             | S-6                 | 1.1                | 4          |              | BL        | 9.5 SAND, fine grained, little silt, light brown   |           |
|             |                     | 2.0                | 9          |              |           | SILT, little fine sand, yellowish brown, medium dense, damp                                  |           |
|             |                     | 55%                | 9          |              |           | Match to Sheet 2   |           |

DRILLING CO.: EMTC

DRILLER: G. BARNES

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-N-SB34

SHEET 1 OF 2

| SAMPLE TYPE  |                     |                      |            |              |           | DEFINITIONS  |  | Elevation |
|--|---------------------|----------------------|------------|--------------|-----------|--|--|-----------|
| Depth (Ft.)  | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   |  |           |
|  |                     |                      | 10         |              |           | Continued from Sheet 1   |  |           |
| 11   | 11.0                |                      | 13         |              |           |  |  |           |
| 12   | S-7                 | 1.2<br>2.0           | 9<br>11    |              |           | SAND, fine grained, trace to some silt, brown to white, medium dense, damp |  |           |
| 13   | 13.0                | 60%                  | 12<br>11   |              | BLG       |  |  |           |
| 14   | S-8                 | 1.5<br>2.0           | 6<br>9     | 07           | 1.1       | SAND, fine grained, trace to some silt, white, medium dense, damp to moist |  |           |
| 15   | 15.0                | 75%                  | 11<br>9    |              |           |  |  |           |
| 16   | S-9                 | 1.5<br>2.0           | 7<br>9     |              |           | SAND, fine grained, trace to some silt, white, medium dense, wet           |  |           |
| 17   | 17.0                | 75%                  | 8          |              | BLG       |  |  |           |
| ORANGE SILT SEAM PRESENT FROM 15.9'-16.0'  |                     |                      |            |              |           |  |  | 7.06      |
| END OF BORING<br>TOTAL DEPTH = 17.0'   |                     |                      |            |              |           |  |  |           |
| * NOTE: 3 SPLIT SPOONS DRIVEN FROM 1.5'-3.0'. NO RECOVERY ON FIRST ATTEMPT (LOST SHOE OF SPLIT SPOON IN HOLE). THE RECOVERED MATERIAL FROM THE SECOND AND THIRD ATTEMPTS WERE COMPOSITED |                     |                      |            |              |           |  |  |           |
| 18   |                     |                      |            |              |           |  |  |           |
| 19   |                     |                      |            |              |           |  |  |           |
| 20   |                     |                      |            |              |           |  |  |           |
| 21   |                     |                      |            |              |           |  |  |           |
| 22   |                     |                      |            |              |           |  |  |           |
| 23   |                     |                      |            |              |           |  |  |           |
| 24   |                     |                      |            |              |           |  |  |           |
| 25   |                     |                      |            |              |           |  |  |           |
| 26   |                     |                      |            |              |           |  |  |           |
| 27   |                     |                      |            |              |           |  |  |           |
| 28   |                     |                      |            |              |           |  |  |           |
| 29   |                     |                      |            |              |           |  |  |           |

Match to Sheet 3

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-N-SB35

COORDINATES: EAST: 2502822.1000

NORTH: 333521.4130

ELEVATION: SURFACE: 21.8778

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

|                         |             |        |           |             |         |               |                           |                  |      |
|-------------------------|-------------|--------|-----------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: <u>MOBILE B-61</u> |             |        |           |             |         |               |                           |                  |      |
|                         | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)            | 1-3/8" ID   |        | 3 1/4" ID |             | 3-29-94 | 0.0-15.0      | PARTLY CLOUDY, BREEZY 165 | 15.0             |      |
| LENGTH                  | 2.0'        |        | 5.0'      |             |         |               |                           |                  |      |
| TYPE                    | STD.        |        | HSA       |             |         |               |                           |                  |      |
| HAMMER WT.              | 140#        |        |           |             |         |               |                           |                  |      |
| FALL                    | 30"         |        |           |             |         |               |                           |                  |      |
| STICK UP                |             |        |           |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. HMe background = 0.3 ppm

### SAMPLE TYPE

- S = Split Spoon
- T = Shelby Tube
- R = Air Rotary
- D = Denison
- N = No Sample
- A = Auger
- W = Wash
- C = Core
- P = Piston

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD   | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|--------------|--------------|-----------|--|-----------|
| 1           | 1.0                 | -                  | -            |              |           | 0.0 TO 0.2 ASPHALT WEARING/BINDER COURSE<br>0.2 TO 3.0 SAND, fine grained, trace silt, brown, damp |           |
| 2           |                     |                    |              | 01           | BG        |  |           |
| 3           | 3.0                 |                    |              |              |           |  |           |
| 4           | S-1                 | 1.3<br>2.0<br>65%  | 8<br>6<br>11 |              | BG        | SAND, fine grained trace silt, white, medium dense, damp   |           |
| 5           | 5.0                 |                    | 12           |              |           | 4.5 SILT, little sand trace clay, brown, damp  |           |
| 6           | S-2                 | 1.4<br>2.0<br>70%  | 3<br>7<br>12 |              | BG        | SILT, little clay, trace fine sand, brown, medium dense, damp                                      |           |
| 7           | 7.0                 |                    | 13           |              |           | SILT, trace sand, trace clay, brown, damp  |           |
| 8           | S-3                 | 1.4<br>2.0<br>70%  | 5<br>7<br>9  |              | BG        | 8.0 SAND, fine grained, trace silt white to yellowish orange, medium dense, damp                   |           |
| 9           | 9.0                 |                    | 11           |              |           |  |           |
|             | S-4                 | 1.5<br>2.0<br>75%  | 12<br>12     |              | BG        | SAND, fine grained trace silt, white to yellowish orange, medium dense, damp Match to Sheet 2      |           |

DRILLING CO.: EMTC

DRILLER: G. BARNES

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1-N-SB35

SHEET 1 OF 2

| SAMPLE TYPE |                     |                          |              |              |           | DEFINITIONS   |  | Elevation |
|-------------|---------------------|--------------------------|--------------|--------------|-----------|---|--|-----------|
| Depth (Ft.) | Sample Type and No. | Samp. Rec. (Ft. & %)     | SPT or RQD   | Samp. Desig. | PID (ppm) | Visual Description  |  |           |
| 11          | 11.0                |                          | 11<br>10     |              |           | Continued from Sheet 1  |  |           |
| 12          | 5-5                 | $\frac{1.4}{2.0}$<br>70% | 5<br>9<br>10 | 06           | BG        | 11.0 to 12.7 SAND, fine grained, trace silt, white to yellowish orange, medium dense, damp to moist |  |           |
| 13          | 13.0                |                          | 10           |              |           | 12.7 to 13.0 SILT, little sand, trace clay, tan, moist  |  |           |
| 14          | 5-6                 | $\frac{1.8}{2.0}$<br>90% | 5<br>7<br>8  |              | BG        | SAND, fine grained, trace silt, white medium dense, wet   |  |           |
| 15          | 15.0                |                          |              |              |           | END OF BORING<br>TOTAL DEPTH = 15.0'  |  |           |
| 16          |                     |                          |              |              |           |   |  |           |
| 18          |                     |                          |              |              |           |   |  |           |
| 19          |                     |                          |              |              |           |   |  |           |
| 20          |                     |                          |              |              |           |   |  |           |
| 21          |                     |                          |              |              |           |   |  |           |
| 22          |                     |                          |              |              |           |   |  |           |
| 23          |                     |                          |              |              |           |   |  |           |
| 24          |                     |                          |              |              |           |   |  |           |
| 25          |                     |                          |              |              |           |   |  |           |
| 26          |                     |                          |              |              |           |   |  |           |
| 27          |                     |                          |              |              |           |   |  |           |
| 28          |                     |                          |              |              |           |   |  |           |
| 29          |                     |                          |              |              |           |   |  |           |

Match to Sheet 3

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: Z-1N-SB36

COORDINATES: EAST: 2502869.69

NORTH: 333510.14

ELEVATION: SURFACE: 21.64

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

|              |             |        |         |             |         |               |                       |                  |      |
|--------------|-------------|--------|---------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: #220    |             |        |         |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 3/4" ID |             | 3-29-94 | 0-15'         | overcast, cool (50's) | 14.5             |      |
| LENGTH       | 2.0'        |        | 5.0'    |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA     |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |         |             |         |               |                       |                  |      |
| FALL         | 30"         |        |         |             |         |               |                       |                  |      |
| STICK UP     |             |        |         |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. Hsu background is .3 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | N                   | -                  | -          |              | -         | Asphalt<br>coarse gravel and cobble material  |           |
| 2           |                     | -                  | -          | 01           | BG        | SAND, fine grained w/ trace silt. Brown to light brown to light gray, very dense to medium dense, damp. |           |
| 3           |                     |                    |            |              |           |   |           |
| 4           | S-1                 | 1.7<br>2.0         | 33<br>25   |              | BG        |   |           |
| 5           |                     | 85%                | 31         |              |           |   |           |
| 6           | S-2                 | 1.4<br>2.0         | 14<br>12   |              | BG        |   |           |
| 7           |                     | 70%                | 12         |              |           |   |           |
| 8           | S-3                 | 1.8<br>2.0         | 7<br>9     |              | BG        |   |           |
| 9           |                     | 90%                | 12         |              |           |   |           |
|             | S-4                 | 1.3<br>2.0         | 6<br>9     |              | BG        |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: Z-1N-SB36

SHEET 1 OF 2



# TEST BORING RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-1N-SB36

| 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            |                      |              |              |           | PID = Photoionization Detector   |           |
| D = Denison     | P = Piston          |                      |              |              |           |  |           |
| N = No Sample   |                     |                      |              |              |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD   | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0 S-4            | 65%                  | 9<br>11      |              | BG        | Continued from Sheet 1   |           |
| 12              | 13.0 S-5            | 1.4<br>2.0<br>76%    | 5<br>8<br>8  | 06           | BG        | SAND, fine grained w/ trace silt. Light brown, medium dense, damp to moist to wet. |           |
| 13              | 13.0 S-5            | 1.4<br>2.0<br>76%    | 5<br>8<br>8  |              |           |  |           |
| 14              | 15.0 S-6            | 1.6<br>2.0<br>80%    | 5<br>5<br>10 |              | BG        |  |           |
| 15              |                     |                      |              |              |           | End of Boring<br>TD 15.0'  | 6.64      |
| 16              |                     |                      |              |              |           |  |           |
| 18              |                     |                      |              |              |           |  |           |
| 19              |                     |                      |              |              |           |  |           |
| 20              |                     |                      |              |              |           |  |           |
| 21              |                     |                      |              |              |           |  |           |
| 22              |                     |                      |              |              |           |  |           |
| 23              |                     |                      |              |              |           |  |           |
| 24              |                     |                      |              |              |           |  |           |
| 25              |                     |                      |              |              |           |  |           |
| 26              |                     |                      |              |              |           |  |           |
| 27              |                     |                      |              |              |           |  |           |
| 28              |                     |                      |              |              |           |  |           |
| 29              |                     |                      |              |              |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 1-1N-SB36

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 1 FCLDA RIFES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-251 BORING NO.: 1-IN-3837  
 COORDINATES: EAST: 2302894.86 NORTH: 333700.08  
 ELEVATION: SURFACE: 18.56 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |              |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|--------------|--------------------------------|------|
| RIG: <u>B-57</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>3-29-94</u> | <u>7</u>      | <u>SUNNY</u> | <u>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: BACKGROUND (BG) H<sub>2</sub>O = 0.2 PPM

| DRILL RECORD |                |                                      |                      |                    |             |           | VISUAL DESCRIPTION  |                   |                     |   |              |           |
|--------------|----------------|--------------------------------------|----------------------|--------------------|-------------|-----------|---|-------------------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK   | Sample ID<br>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<br>ROCK | ELEVATION |
|              |                |                                      |                      | RQD (Ft. & %)      | Pen. Rate   |           | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color             | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |              |           |
| 1            |                |                                      |                      |                    |             |           | <u>2" ASPHALT</u>   |                   |                     |   |              |           |
| 2            | <u>LAB 5-1</u> |                                      | <u>1.33 / 2</u>      | <u>12</u>          | <u>01</u>   | <u>BL</u> | <u>1' Fill - SAND-FINE + GRAVEL-F</u>                           |                   |                     |   |              |           |
| 3            |                |                                      | <u>67%</u>           | <u>12</u>          |             |           | <u>SAND-FINE AND SILT</u>                                       | <u>LT. BROWN</u>  | <u>MED DENSE</u>    | <u>DRY</u>  |              |           |
| 4            | <u>LAB 5-2</u> |                                      | <u>1.08 / 2</u>      | <u>15</u>          | <u>02</u>   | <u>BG</u> | <u>SAND-FINE LITTLE SILT</u>                                    | <u>LT. BROWN</u>  | <u>MED. DENSE</u>   | <u>DRY</u>  |              |           |
| 5            |                |                                      | <u>54%</u>           | <u>2</u>           |             |           | <u>WATER @ 5'</u>   |                   |                     |   |              |           |
| 6            |                | <u>5-3</u>                           | <u>.25 / 2</u>       | <u>2</u>           |             | <u>BG</u> | <u>SAND-FINE AND SILT</u>                                       | <u>BLUE GREEN</u> | <u>MED STIFF</u>    | <u>WET</u>  |              |           |
| 7            |                |                                      | <u>13%</u>           | <u>3</u>           |             |           | <u>TRACE CLAY</u>   |                   |                     |   |              |           |
| 8            |                |                                      |                      | <u>2</u>           |             |           | <u>END OF BORING 7'</u>   |                   |                     |   |              |           |
| 9            |                |                                      |                      |                    |             |           |   |                   |                     |   |              |           |
| 10           |                |                                      |                      |                    |             |           |   |                   |                     |   |              |           |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-3837 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 1- FCLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-5838  
 COORDINATES: EAST: 2502393.68 NORTH: 332138.03  
 ELEVATION: SURFACE: 20.06 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |               |               |                     |                  |      |
|------------------|------------------|--------|------------------|-------------|---------------|---------------|---------------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |               |               |                     |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER             | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3 1/4" ID</u> |             | <u>4-6-94</u> | <u>13</u>     | <u>PARTLY SUNNY</u> | <u>11</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: BACKGROUND (BG) HNU ≥ 0.2 PPM

| 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          |            |                          |           |   |           |  |  |
| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description  | Elevation |  |  |
| 1           | LAB 00              | 100%<br>1.41/2     | —          | 00                       | BG        | 4" Top Soil. ORGANICS<br>SAND-FINE TRACE Silt. DRY.             |           |  |  |
| 2           | S-1                 | 71%<br>1.62/2      | 17<br>10   |                          | BG        | SAND-FINE TRACE Silt<br>DRY. BROWN. MED DENSE.                  |           |  |  |
| 3           |                     | 71%<br>1.62/2      | 9          |                          |           |   |           |  |  |
| 4           | S-2                 | 83%<br>1.5/2       | 10<br>9    |                          | BG        | SAND-FINE TRACE Silt.<br>DAMP. BROWN. MED DENSE                 |           |  |  |
| 5           |                     | 83%<br>1.5/2       | 8          |                          |           |   |           |  |  |
| 6           | S-3                 | 75%<br>1.33/2      | 8<br>7     |                          | BG        | SAND-FINE TRACE Silt.<br>DAMP. ORANGE/BROWN.<br>MED DENSE.      |           |  |  |
| 7           |                     | 75%<br>1.33/2      | 6          |                          |           |   |           |  |  |
| 8           | S-4                 | 67%<br>1.33/2      | 4<br>4     |                          | BG        | CLAY SOME Silt TRACE SAND-FINE<br>DAMP. BROWN. MED DENSE        |           |  |  |
| 9           |                     | 67%<br>1.33/2      | 6          |                          |           |   |           |  |  |
| 10          | LAB S-5             | 67%<br>1.33/2      | 5<br>5     | 05                       | BG        | SAND-FINE LITTLE Silt<br>DAMP. GRAY/ORANGE MOTTLED<br>MED DENSE |           |  |  |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-5838 SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: SITE 1 - FLIDA RIFES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-5838

| SAMPLE TYPE     |                     |                      |            |  |           | DEFINITIONS  |           |
|-----------------|---------------------|----------------------|------------|--|-----------|--|-----------|
| S = Split Spoon |                     | A = Auger            |            | SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') |           | RQD = Rock Quality Designation (%)                           |           |
| T = Shelby Tube |                     | W = Wash             |            | Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)    |           | Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis |           |
| 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   | Elevation |
|                 | LAB 5-5             | 67%                  | 5          |  | BG        | CONTINUED  |           |
| 11              |                     | 1.25<br>R            | 7          |  |           | WATER @ 11'  |           |
| 12              | 5-6                 |                      | 10         |  |           | SAND-FINE LITTLE SILT.                                       |           |
| 12              |                     |                      | 12         |  | BG        | WET. GRAY. MED.  |           |
| 13              |                     | 63%                  | 8          |  |           | END OF BORING 13'  | 7.06      |
| 14              |                     |                      |            |  |           |  |           |
| 15              |                     |                      |            |  |           |  |           |
| 16              |                     |                      |            |  |           |  |           |
| 17              |                     |                      |            |  |           |  |           |
| 18              |                     |                      |            |  |           |  |           |
| 19              |                     |                      |            |  |           |  |           |
| 20              |                     |                      |            |  |           |  |           |
| 21              |                     |                      |            |  |           |  |           |
| 22              |                     |                      |            |  |           |  |           |
| 23              |                     |                      |            |  |           |  |           |
| 24              |                     |                      |            |  |           |  |           |
| 25              |                     |                      |            |  |           |  |           |
| 26              |                     |                      |            |  |           |  |           |
| 27              |                     |                      |            |  |           |  |           |
| 28              |                     |                      |            |  |           |  |           |
| 29              |                     |                      |            |  |           |  |           |
| 30              |                     |                      |            |  |           |  |           |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-5838 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 1 - FCLDA RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-IN-5839  
 COORDINATES: EAST: 2502728.77 NORTH: 332328.81  
 ELEVATION: SURFACE: 22.68 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |               |               |                     |                  |      |
|------------------|------------------|--------|------------------|-------------|---------------|---------------|---------------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |               |               |                     |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER             | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3 1/4" ID</u> |             | <u>4-6-94</u> | <u>15</u>     | <u>PARTLY SUNNY</u> | <u>13</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: BACKGROUND (BG) HNU ≈ 0.2 PPM

| 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   |                     |                    |             |                          |           |  |          |  |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD  | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description   | Elevatio |  |
| 1               | LAB 00              | 100%<br>1.67<br>2  | —           | ∞                        | BG        | 4" TOP SOIL. BLACK SAND-FINE TRACE SILT. DRY                     |          |  |
| 2               | S-1                 | 83%<br>1.83<br>2   | 11<br>12    |                          | BG        | SAND-FINE TRACE SILT DRY. ORANGE. MED DENSE                      |          |  |
| 3               |                     | 72%<br>1.08<br>2   | 8           |                          |           |  |          |  |
| 4               | S-2                 | 54%<br>1.60<br>2   | 4<br>5<br>7 |                          | BG        | SAND-FINE TRACE SILT DAMP. ORANGE AND WHITE MED DENSE            |          |  |
| 5               |                     | 79%<br>1.58<br>2   | 11          |                          |           |  |          |  |
| 6               | S-3                 | 79%<br>1.58<br>2   | 4<br>7      |                          | BG        | SAND-FINE TRACE SILT DAMP. WHITE. MED DENSE                      |          |  |
| 7               |                     | 54%<br>1.60<br>2   | 13<br>17    |                          |           |  |          |  |
| 8               | LAB S-4             | 1.60<br>2          | 5<br>6<br>9 | 04                       | BG        | SAND-FINE TRACE SILT MOIST. WHITE W/ ORANGE MOTTLED. MED DENSE.  |          |  |
| 9               |                     | 79%<br>1.58<br>2   | 7           |                          |           |  |          |  |
| 10              | S-5                 | 1.60<br>2          | 6<br>6      |                          | BG        | SAND-FINE LITTLE SILT. MOIST. WHITE W/ ORANGE MOTTLED MED DENSE. |          |  |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-IN-5839 SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: SITE 1 - FLIDA RIFES MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-IN-5B39

| SAMPLE TYPE     |                     |                      |            |  |           | DEFINITIONS  |           |
|-----------------|---------------------|----------------------|------------|--|-----------|--|-----------|
| S = Split Spoon |                     | A = Auger            |            | SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') |           | RQD = Rock Quality Designation (%)                           |           |
| T = Shelby Tube |                     | W = Wash             |            | Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)    |           | Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis |           |
| 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   | Elevation |
|                 | S-5                 | 79%                  | 7          |  | BB        | CONTINUED  |           |
| 11              |                     | $\frac{1.33}{2}$     | 3          |  |           | SAND-FINE TRACE SILT   |           |
| 12              | LAB S-6             | 67%                  | 5          | 06   | BB        | MOIST. WHITE, MED DENSE                                      |           |
| 13              |                     | $\frac{1.41}{2}$     | 7          |  |           | WATER @ 12'  |           |
| 14              | S-7                 | 71%                  | 7          |  | BB        | SAND-FINE TRACE SILT   |           |
| 15              |                     |                      | 9          |  |           | WET. LT. BROWN, MED DENSE                                    | 7.68      |
| 15              |                     |                      | 11         |  |           | END OF BORING 15'  |           |
| 16              |                     |                      |            |  |           |  |           |
| 17              |                     |                      |            |  |           |  |           |
| 18              |                     |                      |            |  |           |  |           |
| 19              |                     |                      |            |  |           |  |           |
| 20              |                     |                      |            |  |           |  |           |
| 21              |                     |                      |            |  |           |  |           |
| 22              |                     |                      |            |  |           |  |           |
| 23              |                     |                      |            |  |           |  |           |
| 24              |                     |                      |            |  |           |  |           |
| 25              |                     |                      |            |  |           |  |           |
| 26              |                     |                      |            |  |           |  |           |
| 27              |                     |                      |            |  |           |  |           |
| 28              |                     |                      |            |  |           |  |           |
| 29              |                     |                      |            |  |           |  |           |
| 30              |                     |                      |            |  |           |  |           |

DRILLING CO.: EMTC

DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-IN-5B39

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE FCLDA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-1N-5840  
 COORDINATES: EAST: 2502198.12 NORTH: 332665.00  
 ELEVATION: SURFACE: 21.50 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |                |               |              |                  |      |
|------------------|------------------|--------|----------------|-------------|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                |             |                |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS         | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3/4" ID</u> |             | <u>4-18-94</u> | <u>15</u>     | <u>SUNNY</u> | <u>15</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: BACKGROUND (Bg) HANU = 0.4 ppm. GEOTECHNICAL BORING ONLY

**SAMPLE TYPE**  
 S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**  
 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

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD   | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|--------------|--------------------------|-----------|---|-----------|
| 1           |                     |                    |              |                          |           | <u>1' FILL SAND-FINE AND GRAVEL-FINE TO MEDIUM</u>              |           |
| 2           | <u>S-1</u>          | <u>1.41/2</u>      | <u>50/12</u> |                          | <u>BG</u> | <u>SILT TRACE SAND-FINE<br/>DRY. DARK BROWN<br/>MED DENSE</u>   |           |
| 3           |                     | <u>71%</u>         | <u>17</u>    |                          |           |   |           |
| 4           | <u>S-2</u>          | <u>1.67/2</u>      | <u>5</u>     |                          | <u>BG</u> | <u>SAND-FINE TRACE SILT<br/>DRY. LT. BROWN<br/>MED DENSE</u>    |           |
| 5           |                     | <u>83%</u>         | <u>13</u>    |                          |           |   |           |
| 6           | <u>S-3</u>          | <u>8/2</u>         | <u>8</u>     |                          | <u>BG</u> | <u>SAND-FINE TRACE SILT<br/>DRY. ORANGE<br/>MED DENSE</u>       |           |
| 7           |                     | <u>100%</u>        | <u>8</u>     |                          |           |   |           |
| 8           | <u>S-4</u>          | <u>1.41/2</u>      | <u>7</u>     |                          | <u>BG</u> | <u>SAND-FINE LITTLE SILT<br/>DRY. DARK BROWN.<br/>MED DENSE</u> |           |
| 9           |                     | <u>71%</u>         | <u>6</u>     |                          |           |   |           |
| 10          | <u>S-5</u>          | <u>1.83/2</u>      | <u>5</u>     |                          | <u>BG</u> | <u>SAND-FINE LITTLE SILT<br/>DRY. DARK BROWN<br/>MED DENSE</u>  |           |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-1N-5840 SHEET 1 OF 2

# Baker

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: SITE 1 FCLDA RILES MCB CAMP LEJEUNES.O. NO.: 62470-231BORING NO.: 1-IN-5840

| 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   |                     |                      |            |                          |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description  | Elevation |
|                 | 5-5                 | 93%                  | 9<br>11    |                          | BG        | CONTINUED   |           |
| 11              |                     | 1.41<br>2            | 7          |                          |           | SAND-FINE TRACE SILT<br>MOIST LT. BROWN<br>MED DENSE          |           |
| 12              | 5-6                 |                      | 9<br>11    |                          | BG        |   |           |
| 13              |                     | 71%                  | 12         |                          |           |   |           |
| 14              |                     | 1.91<br>2            | 8          |                          |           | SAND-FINE TRACE SILT<br>MOIST TO WET<br>LT. GRAY<br>MED DENSE |           |
| 15              | 5-7                 |                      | 8<br>9     |                          | BG        |   |           |
| 15              |                     | 71%                  | 13         |                          |           | WATER @ 15'   | 6.5       |
| 15              |                     |                      |            |                          |           | END OF BORING @ 15'   |           |
| 16              |                     |                      |            |                          |           |   |           |
| 17              |                     |                      |            |                          |           |   |           |
| 18              |                     |                      |            |                          |           |   |           |
| 19              |                     |                      |            |                          |           |   |           |
| 20              |                     |                      |            |                          |           |   |           |
| 21              |                     |                      |            |                          |           |   |           |
| 22              |                     |                      |            |                          |           |   |           |
| 23              |                     |                      |            |                          |           |   |           |
| 24              |                     |                      |            |                          |           |   |           |
| 25              |                     |                      |            |                          |           |   |           |
| 26              |                     |                      |            |                          |           |   |           |
| 27              |                     |                      |            |                          |           |   |           |
| 28              |                     |                      |            |                          |           |   |           |
| 29              |                     |                      |            |                          |           |   |           |
| 30              |                     |                      |            |                          |           |   |           |

DRILLING CO.: EMTCDRILLER: GENE BARNESBAKER REP.: KENNETH A. TUABORING NO.: 1-IN-5840 SHEET 2 OF 2



**SITE 28**

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# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB01

COORDINATES: EAST: 2498293.9600

NORTH: 332026.3370

ELEVATION: SURFACE: 19.5062

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

|              |             |        |           |             |         |               |                              |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|------------------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                              |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4 1/4" ID |             | 3-26-94 | 0-19'         | Broken overcast humid (50's) | 17.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                              |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                              |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                              |                  |      |
| FALL         | 30"         |        |           |             |         |               |                              |                  |      |
| STICK UP     |             |        |           |             |         |               |                              |                  |      |

REMARKS: Boring sampled to 19.0' and grouted to surface. H<sub>2</sub>O background is .5 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | -                   | -                  | -          | 00           | BG        | SILTY SAND, fine grained. Dark brown to gray, very loose, damp.<br><br>SAND, fine grained w/ trace silt. Brown, loose to medium dense to dense, damp. |           |
| 2           | S-1                 | 1.5 / 2.0          | 6 / 18     |              | BG        |   |           |
| 3           |                     | 75%                | 9          |              |           |   |           |
| 4           | S-2                 | 1.2 / 2.0          | 3 / 6      |              | BG        |   |           |
| 5           |                     | 60%                | 3          |              |           |   |           |
| 6           | S-3                 | 1.6 / 2.0          | 3 / 3      |              | BG        |   |           |
| 7           |                     | 80%                | 5          |              |           |   |           |
| 8           | S-4                 | 1.4 / 2.0          | 5 / 4      | 04           | BG        |   |           |
| 9           | S-5                 | 1.5 / 2.0          | 3 / 5      |              | BG        |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB01

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SR01

| 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            |                      |            | PID = Photoionization Detector                             |           |  |           |
| D = Denison     | P = Piston          |                      |            |  |           |  |           |
| N = No Sample   |                     |                      |            |  |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0 S-5            | 75%                  | 6<br>6     |  | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/ trace silt. Brown, medium dense, damp to moist to wet. |           |
| 12              | 12.0 S-6            | 1.6<br>2.0           | 3<br>5     |  | BG        |  |           |
| 13              | 13.0                | 80%                  | 8          |  |           |  |           |
| 14              | 14.0 S-7            | 1.5<br>2.0           | 7<br>8     |  | BG        |  |           |
| 15              | 15.0                | 75%                  | 10<br>13   |  |           |  |           |
| 16              | 16.0 S-8            | 1.4<br>2.0           | 7<br>8     | 08   | BG        |  |           |
| 17              | 17.0                | 70%                  | 10<br>13   |  |           |  |           |
| 18              | 18.0 S-9            | 1.2<br>2.0           | 4<br>5     |  | BG        |  |           |
| 19              | 19.0                | 60%                  | 11         |  |           |  |           |
| 20              |                     |                      |            |  |           | End of Boring<br>TD 19.0'  |           |
| 21              |                     |                      |            |  |           |  |           |
| 22              |                     |                      |            |  |           |  |           |
| 23              |                     |                      |            |  |           |  |           |
| 24              |                     |                      |            |  |           |  |           |
| 25              |                     |                      |            |  |           |  |           |
| 26              |                     |                      |            |  |           |  |           |
| 27              |                     |                      |            |  |           |  |           |
| 28              |                     |                      |            |  |           |  |           |
| 29              |                     |                      |            |  |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SR01

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB02

COORDINATES: EAST: 2498353.4700

NORTH: 332108.7350

ELEVATION: SURFACE: 21.6264

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

|              |             |        |           |             |         |               |                              |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|------------------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                              |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4 1/4" ID |             | 3-26-94 | 0-17'         | Broken overcast, humid, 50's | 16.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                              |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                              |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                              |                  |      |
| FALL         | 30"         |        |           |             |         |               |                              |                  |      |
| STICK UP     |             |        |           |             |         |               |                              |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. Hsu background is .4 ppm

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube     W = Wash
- R = Air Rotary       C = Core
- D = Denison          P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD    | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|---------------|--------------|-----------|---|-----------|
| 1           |                     | -                  | -             | 00           | BG        | SILTY SAND, fine grained. Dark brown to gray, very loose, damp. |           |
| 2           | S-1                 | 1.3<br>2.0         | 8<br>11<br>16 |              | BG        |   |           |
| 3           |                     | 65%                | 23            |              |           |   |           |
| 4           | S-2                 | 1.6<br>2.0         | 9<br>8<br>7   |              | BG        | SAND, fine grained w/ trace silt. Brown, medium dense, damp.    |           |
| 5           |                     | 80%                | 8             |              |           |   |           |
| 6           | S-3                 | 1.2<br>2.0         | 4<br>7<br>8   |              | BG        |   |           |
| 7           |                     | 60%                | 8             |              |           |   |           |
| 8           | S-4                 | 1.4<br>2.0         | 7<br>7<br>9   | 04           | BG        |   |           |
| 9           |                     | 70%                | 11            |              |           |   |           |
| 10          | S-5                 | 1.4<br>2.0         | 4<br>6        |              | BG        |   |           |
|             |                     | 70%                |               |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB02

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB02

| 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            |                      |            |              |           | PID = Photoionization Detector   |                           |
| D = Denison     | P = Piston          |                      |            |              |           |  |                           |
| N = No Sample   |                     |                      |            |              |           |  |                           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation                 |
| 11              | 11.0 S-5            | 70%                  | 9<br>1.6   |              | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/ trace silt. Brown to dark brown, medium dense, damp to moist to wet. |                           |
| 12              | 12.0 S-6            | 80%                  | 3<br>2.0   |              | BG        |  |                           |
| 13              | 13.0 S-6            | 80%                  | 10<br>1.7  |              | BG        |  |                           |
| 14              | 14.0 S-7            | 85%                  | 8<br>2.0   | 07           | BG        |  |                           |
| 15              | 15.0 S-7            | 85%                  | 12<br>1.2  |              | BG        |  |                           |
| 16              | 16.0 S-8            | 60%                  | 6<br>2.0   |              | BG        |  |                           |
| 17              | 17.0 S-8            | 60%                  | 5<br>2.0   |              | BG        |  |                           |
| 18              |                     |                      | 3          |              |           |  | End of Boring<br>TD 17.0' |
| 19              |                     |                      |            |              |           |  |                           |
| 20              |                     |                      |            |              |           |  |                           |
| 21              |                     |                      |            |              |           |  |                           |
| 22              |                     |                      |            |              |           |  |                           |
| 23              |                     |                      |            |              |           |  |                           |
| 24              |                     |                      |            |              |           |  |                           |
| 25              |                     |                      |            |              |           |  |                           |
| 26              |                     |                      |            |              |           |  |                           |
| 27              |                     |                      |            |              |           |  |                           |
| 28              |                     |                      |            |              |           |  |                           |
| 29              |                     |                      |            |              |           |  |                           |
| 30              |                     |                      |            |              |           |  |                           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB02

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB03

COORDINATES: EAST: 2498382.87

NORTH: 331991.65

ELEVATION: SURFACE: 14.79

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

|              |             |        |           |             |         |               |                              |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|------------------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                              |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-26-94 | 0-13'         | Broken overcast, humid, 50's | 12.0             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                              |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                              |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                              |                  |      |
| FALL         | 30"         |        |           |             |         |               |                              |                  |      |
| STICK UP     |             |        |           |             |         |               |                              |                  |      |

REMARKS: Boring sampled to 13.0' and grouted to surface. Hvu background is .4 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained. Dark brown to gray, very loose, damp.                          |           |
| 2           | S-1                 | 1.3<br>2.0         | 1<br>2     |              | BG        |  |           |
| 3           |                     | 65%                | 2          |              |           | SAND, fine grained w/ trace silt. Dark brown to brown                                    |           |
| 4           | S-2                 | 1.5<br>2.0         | 1<br>2     |              | BG        | to gray, v. loose to loose, damp.  |           |
| 5           |                     | 75%                | 3          |              |           |  |           |
| 6           | S-3                 | .8<br>2.0          | 1<br>3     | 03           | BG        | SAND, fine to medium grained w/ trace silt. Dark gray, loose, damp.                      |           |
| 7           |                     | 40%                | 9          |              |           |  |           |
| 8           | S-4                 | 1.2<br>2.0         | 1<br>2     |              | BG        | SAND, fine grained w/ trace silt and "Pea Gravel". Dark gray, loose to very loose, damp. |           |
| 9           |                     | 60%                | 2          |              |           |  |           |
|             | S-5                 | 1.1<br>2.0<br>55%  | 3<br>8     | 05           | BG        | SAND, fine grained w/ trace silt and Organics Match to Sheet 2                           |           |

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB03

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB03

| 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            |                      |            |              |           | PID = Photoionization Detector  |           |
| D = Denison      | P = Piston          |                      |            |              |           |   |           |
| N = No Sample    |                     |                      |            |              |           |   |           |
| Depth (Ft.)      | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11               | 11.0 S-5            | 55%                  | 5<br>6     | OS           | BG        | Continued from Sheet 1 (wood). Dark gray, medium dense, damp                                |           |
| 12               | S-6                 | 1.3<br>2.0           | 2<br>1     |              | BG        | SAND, fine grained w/ trace silt and organics (roots). Dark gray, very loose, moist to wet. | ▼         |
| 13               | 13.0                | 65%                  | 4          |              |           | End of Boring<br>TD 13.0'   | 1.79      |
| 14               |                     |                      |            |              |           |   |           |
| 15               |                     |                      |            |              |           |   |           |
| 16               |                     |                      |            |              |           |   |           |
| 17               |                     |                      |            |              |           |   |           |
| 18               |                     |                      |            |              |           |   |           |
| 19               |                     |                      |            |              |           |   |           |
| 20               |                     |                      |            |              |           |   |           |
| 21               |                     |                      |            |              |           |   |           |
| 22               |                     |                      |            |              |           |   |           |
| 23               |                     |                      |            |              |           |   |           |
| 24               |                     |                      |            |              |           |   |           |
| 25               |                     |                      |            |              |           |   |           |
| 26               |                     |                      |            |              |           |   |           |
| 27               |                     |                      |            |              |           |   |           |
| 28               |                     |                      |            |              |           |   |           |
| 29               |                     |                      |            |              |           |   |           |
| Match to Sheet 3 |                     |                      |            |              |           |   |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB03

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB04

COORDINATES: EAST: 2498450.4500

NORTH: 332125.7080

ELEVATION: SURFACE: 21.7433

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

|              |             |        |           |             |         |               |                              |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|------------------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                              |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-26-94 | 0-15'         | Broken overcast, humid, 50's | 14.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                              |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                              |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                              |                  |      |
| FALL         | 30"         |        |           |             |         |               |                              |                  |      |
| STICK UP     |             |        |           |             |         |               |                              |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. Hvu background is .3 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison          P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SAND, fine grained w/ trace silt. Brown to gray to dark brown, medium dense to loose, damp to moist. |           |
| 2           | S-1                 | 1.6<br>2.0         | 6<br>11    |              | BG        |  |           |
| 3           |                     | 80%                | 29         |              |           |  |           |
| 4           | S-2                 | 1.3<br>2.0         | 13<br>17   |              | BG        |  |           |
| 5           |                     | 65%                | 12         |              |           |  |           |
| 6           | S-3                 | 1.5<br>2.0         | 5<br>6     | 03           | BG        |  |           |
| 7           |                     | 75%                | 8          |              |           |  |           |
| 8           | S-4                 | 1.3<br>2.0         | 4<br>8     |              | BG        |  |           |
| 9           | S-5                 | 1.4<br>2.0         | 2<br>5     |              | BG        |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB04

SHEET 1 OF 2



# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB04

| SAMPLE TYPE |                     |                      |             |              |           | DEFINITIONS  |  | Elevation |
|-------------|---------------------|----------------------|-------------|--------------|-----------|--|--|-----------|
| Depth (Ft.) | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD  | Samp. Desig. | PID (ppm) | Visual Description   |  |           |
|             |                     |                      |             |              |           | Continued from Sheet 1   |  |           |
| 11          | 11.0 S-5            | 70%                  | 4<br>6      |              | BG        | SAND, fine grained w/ trace silt. Brown to dark brown, moist to wet. |  |           |
| 12          | 13.0 S-6            | 1.2<br>2.0<br>60%    | 3<br>5<br>4 | OG           | BG        |  |  |           |
| 13          |                     |                      | 3<br>8      |              |           |  |  |           |
| 14          | 15.0 S-7            | 1.5<br>2.0<br>75%    | 3<br>6<br>3 |              | BG        | End of Boring<br>TD 15.0'  |  |           |
| 15          |                     |                      |             |              |           |  |  |           |
| 16          |                     |                      |             |              |           |  |  |           |
| 17          |                     |                      |             |              |           |  |  |           |
| 18          |                     |                      |             |              |           |  |  |           |
| 19          |                     |                      |             |              |           |  |  |           |
| 20          |                     |                      |             |              |           |  |  |           |
| 21          |                     |                      |             |              |           |  |  |           |
| 22          |                     |                      |             |              |           |  |  |           |
| 23          |                     |                      |             |              |           |  |  |           |
| 24          |                     |                      |             |              |           |  |  |           |
| 25          |                     |                      |             |              |           |  |  |           |
| 26          |                     |                      |             |              |           |  |  |           |
| 27          |                     |                      |             |              |           |  |  |           |
| 28          |                     |                      |             |              |           |  |  |           |
| 29          |                     |                      |             |              |           |  |  |           |
| 30          |                     |                      |             |              |           |  |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB04

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB05

COORDINATES: EAST: 2498455.3800

NORTH: 331762.5620

ELEVATION: SURFACE: 9.4897

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

|              |             |        |           |             |         |               |                           |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                           |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-27-94 | 0-9'          | Clear, warm, windy (70's) | 7.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                           |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                           |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                           |                  |      |
| FALL         | 30"         |        |           |             |         |               |                           |                  |      |
| STICK UP     |             |        |           |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. HNU background is .3 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison        P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | 1.0                 | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ rooted material and trace fill material (glass shards and charcoal flecks). Dark brown to gray, v. loose. |           |
| 2           | S-1                 | .2 / 2.0           | 5 / 17     |              | BG        | SAND, fine grained w/ trace silt and pieces of brick. Brown to red, medium dense, damp.   |           |
| 3           | 3.0                 | 10%                | 1          |              |           |   |           |
| 4           | S-2                 | NR                 | 1/24"      |              | -         | NO RECOVERY   |           |
| 5           | 5.0                 |                    |            |              |           |   |           |
| 6           | S-3                 | NR                 | 1/12"      |              | -         |   |           |
| 7           | 7.0                 |                    | 1/12"      |              |           |   |           |
| 8           | S-4                 | 1.0 / 2.0          | 1/12"      | 04           | BG        | SAND, fine grained w/ trace silt. Brown to dark gray, very loose, wet.  |           |
| 9           | 9.0                 | 50%                | 1/12"      |              |           | End of Boring<br>TD 9.0'  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB05

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB06

COORDINATES: EAST: 2498564.56

NORTH: 331830.12

ELEVATION: SURFACE: 16.9

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

|              |             |        |          |             |         |               |                           |                  |      |
|--------------|-------------|--------|----------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: #220    |             |        |          |             |         |               |                           |                  |      |
|              | SPLIT SPOON | CASING | AUGERS   | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4 1/4"ID |             | 3-27-94 | 0-15'         | Clear, warm windy, (70's) | 13.5             |      |
| LENGTH       | 2.0'        |        | 5.0'     |             |         |               |                           |                  |      |
| TYPE         | STD.        |        | HSA      |             |         |               |                           |                  |      |
| HAMMER WT.   | 140#        |        |          |             |         |               |                           |                  |      |
| FALL         | 30"         |        |          |             |         |               |                           |                  |      |
| STICK UP     |             |        |          |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. HNU background is .1ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | -                   | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ trace glass shards and oxidized metal. Dark brown to gray, very loose, damp.   |           |
| 2           | S-1                 | 1.1 / 2.0          | 2 / 2      |              | BG        | SAND, fine grained w/ trace silt and FILL material (burnt soil, glass shards, charcoal flecks, brick, oxidized metal fragments). Dark brown to reddish brown, black, brown, loose to very loose, damp. |           |
| 3           |                     | 55%                | 3          |              |           |  |           |
| 4           | S-2                 | .6 / 2.0           | 6 / 1      |              | BG        |  |           |
| 5           |                     | 30%                | 2          |              |           | FILL material (oxidized metal fragments, burnt soil, charcoal flecks, brick). Dark brown, reddish brown, black, orange, medium dense, damp.  |           |
| 6           | S-3                 | .7 / 2.0           | 8 / 3      |              | BG        |  |           |
| 7           |                     | 35%                | 12         |              |           | SAND, fine grained w/ trace silt and FILL material (burnt soil, charcoal flecks, glass shards, Match to Sheet 2  |           |
| 8           | S-4                 | .8 / 2.0           | 1 / 6      |              | BG        |  |           |
| 9           |                     | 40%                | 39         |              |           |  |           |
|             | S-5                 | .6 / 2.0           | 3 / 1      |              | BG        |  |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB06

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB06

| 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             |            | PID = Photoionization Detector                             |           |  |           |
| D = Denison     |                     | P = Piston           |            |  |           |  |           |
| N = No Sample   |                     |                      |            |  |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0 S-5            | 30%                  | 4          |  | BG        | Continued from Sheet 1 possible decomposed food)<br>Brown, dark brown, black, very loose, damp   |           |
| 12              | 12.0 S-6            | .5<br>2.0            | 36         | 06   | BG        | SAND, fine grained w/ trace silt.<br>Soil appears stained w/ oxidation<br>from FILL material. Brown to<br>reddish orange (oxidation),<br>medium dense, moist to wet. |           |
| 13              | 13.0                | 25%                  | 2          |  |           |  |           |
| 14              | 14.0 S-7            | .3<br>2.0            | 11         |  | BG        |  |           |
| 15              | 15.0                | 15%                  | 1          |  |           | End of Boring<br>TD 15.0'  | 1.90      |
| 16              |                     |                      |            |  |           |  |           |
| 18              |                     |                      |            |  |           |  |           |
| 19              |                     |                      |            |  |           |  |           |
| 20              |                     |                      |            |  |           |  |           |
| 21              |                     |                      |            |  |           |  |           |
| 22              |                     |                      |            |  |           |  |           |
| 23              |                     |                      |            |  |           |  |           |
| 24              |                     |                      |            |  |           |  |           |
| 25              |                     |                      |            |  |           |  |           |
| 26              |                     |                      |            |  |           |  |           |
| 27              |                     |                      |            |  |           |  |           |
| 28              |                     |                      |            |  |           |  |           |
| 29              |                     |                      |            |  |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB06

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB07

COORDINATES: EAST: 2498703.94

NORTH: 331957.26

ELEVATION: SURFACE: 17.82

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

|              |             |        |           |             |         |               |                              |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|------------------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                              |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-26-94 | 0-17'         | Broken overcast, humid, 50's | 15.3             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                              |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                              |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                              |                  |      |
| FALL         | 30"         |        |           |             |         |               |                              |                  |      |
| STICK UP     |             |        |           |             |         |               |                              |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. H<sub>2</sub>O background is .4 ppm

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube    W = Wash
- R = Air Rotary      C = Core
- D = Denison        P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained. Dark brown to gray, very loose, damp       |           |
| 2           | S-1                 | 1.2 / 2.0          | 8 / 50     | 01           | BG        | SAND, fine grained w/ trace silt. Brown to gray, medium dense, damp. |           |
| 3           |                     | 60%                | 4"         |              |           |  |           |
| 4           | S-2                 | .4 / 2.0           | 31 / 50    |              | BG        |  |           |
| 5           |                     | 20%                | 5"         |              |           |  |           |
| 6           | S-3                 | .4 / 2.0           | 1 / 13     |              | BG        | FILL material (burnt soil and charcoal flecks)                       |           |
| 7           |                     | 20%                | 18         |              |           |  |           |
| 8           | S-4                 | .3 / 2.0           | 50 / 5"    |              | BG        | SAND, fine grained w/ trace silt. Brown, medium dense, damp.         |           |
| 9           |                     | 15%                |            |              |           |  |           |
|             | S-5                 | .6 / 2.0           | 3 / 4      |              | BG        | FILL material (metal and possible burnt soil)                        |           |
|             |                     | 30%                |            |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB07

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB07

| 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            |                      |             | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |             |  |           |   |           |
| N = No Sample   |                     |                      |             |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD  | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11.0            | S-5                 | 30%                  | 6<br>8      |  | BG        | Continued from Sheet 1  |           |
| 12.0            | S-6                 | .7<br>2.0<br>35%     | 3<br>8<br>3 | OG   | BG        | SAND, fine grained w/some silt and FILL material (burnt soil, brick, and charcoal flecks). Brown to dark gray to black, medium dense, moist |           |
| 13.0            |                     | .4<br>2.0<br>20%     | 3<br>2<br>1 |  | BG        | SAND, fine grained w/little to trace silt. Brown to dark gray, loose to very loose, moist to wet.   |           |
| 14.0            | S-7                 |                      |             |  | BG        |   |           |
| 15.0            |                     | .3<br>2.0<br>15%     | 3<br>1<br>3 |  | BG        |   |           |
| 16.0            | S-8                 |                      |             |  | BG        |   | 82        |
| 17.0            |                     |                      |             |  |           | End of Boring<br>TD 17.0'   |           |
| 18              |                     |                      |             |  |           |   |           |
| 19              |                     |                      |             |  |           |   |           |
| 20              |                     |                      |             |  |           |   |           |
| 21              |                     |                      |             |  |           |   |           |
| 22              |                     |                      |             |  |           |   |           |
| 23              |                     |                      |             |  |           |   |           |
| 24              |                     |                      |             |  |           |   |           |
| 25              |                     |                      |             |  |           |   |           |
| 26              |                     |                      |             |  |           |   |           |
| 27              |                     |                      |             |  |           |   |           |
| 28              |                     |                      |             |  |           |   |           |
| 29              |                     |                      |             |  |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB07

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SR08

COORDINATES: EAST: 249 8621.8600

NORTH: 331687.2740

ELEVATION: SURFACE: 11.5121

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

|              |             |        |           |             |         |               |                           |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                           |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-27-94 | 0-11'         | clear, warm, windy (70's) | 9.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                           |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                           |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                           |                  |      |
| FALL         | 30"         |        |           |             |         |               |                           |                  |      |
| STICK UP     |             |        |           |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 11.0' and grouted to surface. Hwu background is .2 ppm

### SAMPLE TYPE

- S = Split Spoon      A = Auger
- T = Shelby Tube    W = Wash
- R = Air Rotary      C = Core
- D = Denison        P = Piston
- N = No Sample

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | —                   | —                  | —          | 00           | BG        | SILTY SAND, fine grained w/ FILL material (glass shards, brick, charcoal flecks, metal fragments) Brown, gray, red, very loose, damp  |           |
| 2           | S-1                 | .1 / 2.0           | 3          |              | BG        | SAND, fine grained w/ trace silt. Brown to gray, loose, moist   |           |
| 3           |                     | 5%                 | 2          |              |           |   |           |
| 4           | S-2                 | 1.1 / 2.0          | 6          | 02           | BG        | FILL material (brick, glass shards, charcoal flecks, possible burnt soil). "Pea gravel, well rounded 3.5' to 3.6' only. Brown, red, dark gray, black, yellowish orange, medium dense to loose, damp |           |
| 5           |                     | 55%                | 5          |              |           |   |           |
| 6           | S-3                 | 1.0 / 2.0          | 7          | 03           | BG        |   |           |
| 7           |                     | 50%                | 3          |              |           |   |           |
| 8           | S-4                 | .3 / 2.0           | 2          | 04           | BG        | SAND, fine grained w/ trace silt. Dark gray, very loose, Match to Sheet 2   |           |
| 9           |                     | 15%                | 4          |              |           |   |           |
|             | S-5                 | .5 / 2.0           | 2          |              | BG        |   |           |
|             |                     | 25%                | 3          |              |           |   |           |
|             |                     |                    | 1/12"      |              |           |   |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SR08

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-S808

| 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             |            | PID = Photoionization Detector                             |           |   |           |
| D = Denison     |                     | P = Piston           |            |  |           |   |           |
| N = No Sample   |                     |                      |            |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description                                | Elevation |
| 11              | 11.0 S-5            | 25%                  | 2          |  | BG        | Continued from Sheet 1 moist to wet.              |           |
| 12              |                     |                      |            |  |           | End of Boring<br>TD 11.0'                         |           |
| 13              |                     |                      |            |  |           | * Sample 02 & 03 are composited<br>for waste only |           |
| 14              |                     |                      |            |  |           |   |           |
| 15              |                     |                      |            |  |           |   |           |
| 16              |                     |                      |            |  |           |   |           |
| 17              |                     |                      |            |  |           |   |           |
| 18              |                     |                      |            |  |           |   |           |
| 19              |                     |                      |            |  |           |   |           |
| 20              |                     |                      |            |  |           |   |           |
| 21              |                     |                      |            |  |           |   |           |
| 22              |                     |                      |            |  |           |   |           |
| 23              |                     |                      |            |  |           |   |           |
| 24              |                     |                      |            |  |           |   |           |
| 25              |                     |                      |            |  |           |   |           |
| 26              |                     |                      |            |  |           |   |           |
| 27              |                     |                      |            |  |           |   |           |
| 28              |                     |                      |            |  |           |   |           |
| 29              |                     |                      |            |  |           |   |           |
| 30              |                     |                      |            |  |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-S808

SHEET 2 OF 2



# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-5809

COORDINATES: EAST: 2498710.82

NORTH: 331810.03

ELEVATION: SURFACE: 16.82

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

|              |             |        |           |             |         |               |                       |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-25-94 | 0-17'         | overcast, mild (60's) | 15.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                       |                  |      |
| FALL         | 30"         |        |           |             |         |               |                       |                  |      |
| STICK UP     |             |        |           |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. HSW background is .3 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD   | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|--------------|--------------|-----------|---|-----------|
| 1           | -                   | -                  | -            | 00           | BG        | SILTY SAND, fine grained. Dark brown to brown, very loose, damp.  |           |
| 2           | S-1                 | .4                 | 3<br>2       |              | BG        | FILL material (oxidized metal, burnt soil, charcoal flecks?) w/ SILTY SAND, fine grained Dark brown to brown, loose, damp |           |
| 3           |                     |                    | 1<br>12"     |              |           |   |           |
| 4           | S-2                 | .3                 | 1<br>2       |              | BG        |   |           |
| 5           |                     |                    | 1<br>1       |              |           |   |           |
| 6           | S-3                 | .4                 | 1<br>1       |              | BG        |   |           |
| 7           |                     |                    | 1<br>6       |              |           |   |           |
| 8           | S-4                 | NR                 | 12<br>7<br>4 |              | -         | NO RECOVERY   |           |
| 9           |                     |                    | 2            |              |           |   |           |
|             | S-5                 | .2                 | 7<br>8       |              | BG        | SAND, fine grained w/ silt Brown, medium dense Match to Sheet 2   |           |

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-5809

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB09

| 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            |                      |                  |              |           | PID = Photoionization Detector   |           |
| D = Denison     | P = Piston          |                      |                  |              |           |  |           |
| N = No Sample   |                     |                      |                  |              |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD       | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0 S-5            | 10%                  | 5<br>4           |              | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/silt. Brown to dark brown, medium dense, damp to moist. Root material present |           |
| 12              | 12.0 S-6            | .3<br>2.0            | 7<br>16"         |              | BG        |  |           |
| 13              | 13.0                | 15%                  | 50<br>2"         |              |           |  |           |
| 14              | 14.0 S-7            | .7<br>2.0            | 6<br>8<br>16     | OT           | BG        |  |           |
| 15              | 15.0                | 35%                  | 18               |              |           |  |           |
| 16              | 16.0 S-8            | .7<br>2.0            | 2<br>3<br>1<br>2 |              | BG        | SAND, fine grained w/trace silt and FILL material (glass shards). Dark Brown, loose, wet.  | -1.18     |
| 17              | 17.0                | 35%                  |                  |              |           | End of Boring<br>TD 17.0'  |           |
| 18              |                     |                      |                  |              |           |  |           |
| 19              |                     |                      |                  |              |           |  |           |
| 20              |                     |                      |                  |              |           |  |           |
| 21              |                     |                      |                  |              |           |  |           |
| 22              |                     |                      |                  |              |           |  |           |
| 23              |                     |                      |                  |              |           |  |           |
| 24              |                     |                      |                  |              |           |  |           |
| 25              |                     |                      |                  |              |           |  |           |
| 26              |                     |                      |                  |              |           |  |           |
| 27              |                     |                      |                  |              |           |  |           |
| 28              |                     |                      |                  |              |           |  |           |
| 29              |                     |                      |                  |              |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB09

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB10

COORDINATES: EAST: 2498816.72

NORTH: 332017.12

ELEVATION: SURFACE: 17.22

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

|              |             |        |           |             |         |               |                              |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|------------------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                              |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-26-94 | 0-17'         | Broken overcast, humid, 50's | 15.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                              |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                              |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                              |                  |      |
| FALL         | 30"         |        |           |             |         |               |                              |                  |      |
| STICK UP     |             |        |           |             |         |               |                              |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. H<sub>2</sub>O background is .4 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD    | Samp. Desig. | PID (ppm) | Visual Description  | Elevation   |
|-------------|---------------------|--------------------|---------------|--------------|-----------|---|---|
| 1           |                     | -                  | -             | 00           | BG        | SILTY SAND, fine grained w/ trace glass shards. Brown to gray, v. loose, damp |   |
| 2           | S-1                 | 1.0<br>2.0         | 9<br>12<br>25 |              | BG        |   | SAND, fine grained w/ trace silt and little CLAY. Brown to gray, <del>medium</del> dense damp |
| 3           |                     | 50%                | 31            |              |           | SAND, fine grained w/ trace silt. Brown to gray, medium dense, damp.          |   |
| 4           | S-2                 | 1.7<br>2.0         | 5<br>10<br>16 |              | BG        |   |   |
| 5           |                     | 85%                | 21            |              |           |   |   |
| 6           | S-3                 | 1.6<br>2.0         | 5<br>13<br>20 | 03           | BG        |   |   |
| 7           |                     | 80%                | 18            |              |           |   |   |
| 8           | S-4                 | 1.5<br>2.0         | 4<br>8<br>7   |              | BG        |   |   |
| 9           |                     | 75%                | 12            |              |           |   |   |
|             | S-5                 | .7<br>2.0          | 4<br>4        |              | BG        |   |   |
|             |                     | 35%                |               |              |           |   |   |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB10

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB10

| 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            |                      |               | PID = Photoionization Detector                             |           |  |           |
| D = Denison     | P = Piston          |                      |               |  |           |  |           |
| N = No Sample   |                     |                      |               |  |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD    | Samp. Desig.   | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0 S-5            | 35%                  | 5<br>6        |  | BG        | Continued from Sheet 1   |           |
| 12              | 12.0 S-6            | 1.1<br>2.0<br>55%    | 5<br>25<br>13 | 06   | BG        | SAND, fine grained w/ trace silt. Brown, medium dense, damp to moist to wet. |           |
| 13              | 13.0                |                      | 8             |  |           |  |           |
| 14              | 14.0 S-7            | .2<br>2.0<br>10%     | 3<br>5<br>4   |  | BG        |  |           |
| 15              | 15.0                |                      | 2             |  |           |  |           |
| 16              | 16.0 S-8            | .3<br>2.0<br>15%     | 7<br>3<br>4   |  | BG        |  | 22        |
| 17              | 17.0                |                      | 5             |  |           | End of Boring<br>TD 17.0'  |           |
| 18              |                     |                      |               |  |           |  |           |
| 19              |                     |                      |               |  |           |  |           |
| 20              |                     |                      |               |  |           |  |           |
| 21              |                     |                      |               |  |           |  |           |
| 22              |                     |                      |               |  |           |  |           |
| 23              |                     |                      |               |  |           |  |           |
| 24              |                     |                      |               |  |           |  |           |
| 25              |                     |                      |               |  |           |  |           |
| 26              |                     |                      |               |  |           |  |           |
| 27              |                     |                      |               |  |           |  |           |
| 28              |                     |                      |               |  |           |  |           |
| 29              |                     |                      |               |  |           |  |           |
| 30              |                     |                      |               |  |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB10

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB11

COORDINATES: EAST: 2498781.4500

NORTH: 331637.3300

ELEVATION: SURFACE: 10.2573

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

|              |             |        |          |             |         |               |                          |                  |      |
|--------------|-------------|--------|----------|-------------|---------|---------------|--------------------------|------------------|------|
| RIG: # 220   |             |        |          |             |         |               |                          |                  |      |
|              | SPLIT SPOON | CASING | AUGERS   | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                  | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4 1/4"ID |             | 3-27-94 | 0-11'         | clear, warm windy (70's) | 9.5              |      |
| LENGTH       | 2.0'        |        | 5.0'     |             |         |               |                          |                  |      |
| TYPE         | STD.        |        | HSA      |             |         |               |                          |                  |      |
| HAMMER WT.   | 140#        |        |          |             |         |               |                          |                  |      |
| FALL         | 30"         |        |          |             |         |               |                          |                  |      |
| STICK UP     |             |        |          |             |         |               |                          |                  |      |

REMARKS: Boring sampled to 11.0' and grouted to surface. Hsuu background is .2ppm

|  |   |
|--|---|
| <p><b>SAMPLE TYPE</b></p> <p>S = Split Spoon    A = Auger<br/>         T = Shelby Tube    W = Wash<br/>         R = Air Rotary    C = Core<br/>         D = Denison    P = Piston<br/>         N = No Sample</p> | <p><b>DEFINITIONS</b></p> <p>SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br/>         RQD = Rock Quality Designation (%)<br/>         PID = Photoionization Detector</p> |
|--|---|

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | -                   | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ some FILL material (glass shards, oxidized metal and charcoal flecks). Dark brown to gray to black, very loose, damp. |           |
| 2           | S-1                 | 1.6 / 2.0          | 3          |              | BG        | SAND, fine grained w/ trace silt. "Pea gravel" bottom 1/2 of sample only. Brown to dark gray, loose, damp.  |           |
| 3           |                     | 80%                | 7          |              |           |   |           |
| 4           | S-2                 | .7 / 2.0           | 4          |              | BG        | FILL material (brick, glass shards). Brown, red, dark brown, medium dense, damp.  |           |
| 5           |                     | 35%                | 3          |              |           |   |           |
| 6           | S-3                 | 1.3 / 2.0          | 6          | 03           | BG        | FILL material (glass shards, brick, charcoal flecks, trace metal). Red to dark brown to black, medium dense, damp.                                |           |
| 7           |                     | 65%                | 30         |              |           |   |           |
| 8           | S-4                 | .3 / 2.0           | 4          |              | BG        | SAND, fine grained w/ trace silt. "Pea gravel" is occasional. Dark brown to brown to  |           |
| 9           |                     | 15%                | 5          |              |           |   |           |
|             | S-5                 | 1.0 / 2.0          | 5          |              | BG        | dark gray, medium dense, Match to Sheet 2   |           |
|             |                     | 50%                | 11         |              |           |   |           |

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB11

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD R/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB11

| SAMPLE TYPE  |                     |                      |            |              |           | DEFINITIONS  |           |
|--|---------------------|----------------------|------------|--------------|-----------|--|-----------|
| S = Split Spoon      A = Auger<br>T = Shelby Tube    W = Wash<br>R = Air Rotary       C = Core<br>D = Denison          P = Piston<br>N = No Sample |                     |                      |            |              |           | SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br>RQD = Rock Quality Designation (%)<br>PID = Photoionization Detector |           |
| Depth (Ft.)  | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11   | 11.0 S-S            | 50%                  | 50<br>S"   |              | BG        | Continued from Sheet 1 damp to moist to wet  |           |
| 12   |                     |                      |            |              |           | End of Boring  |           |
| 13   |                     |                      |            |              |           | TD 11.0'   |           |
| 14   |                     |                      |            |              |           |  |           |
| 15   |                     |                      |            |              |           |  |           |
| 16   |                     |                      |            |              |           |  |           |
| 17   |                     |                      |            |              |           |  |           |
| 18   |                     |                      |            |              |           |  |           |
| 19   |                     |                      |            |              |           |  |           |
| 20   |                     |                      |            |              |           |  |           |
| 21   |                     |                      |            |              |           |  |           |
| 22   |                     |                      |            |              |           |  |           |
| 23   |                     |                      |            |              |           |  |           |
| 24   |                     |                      |            |              |           |  |           |
| 25   |                     |                      |            |              |           |  |           |
| 26   |                     |                      |            |              |           |  |           |
| 27   |                     |                      |            |              |           |  |           |
| 28   |                     |                      |            |              |           |  |           |
| 29   |                     |                      |            |              |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB11

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB12

COORDINATES: EAST: 2498884.02

NORTH: 331895.83

ELEVATION: SURFACE: 16.32

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

|              |             |        |          |             |         |               |                            |                  |      |
|--------------|-------------|--------|----------|-------------|---------|---------------|----------------------------|------------------|------|
| RIG: # 220   |             |        |          |             |         |               |                            |                  |      |
|              | SPLIT SPOON | CASING | AUGERS   | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                    | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4 1/4"ID |             | 3-27-94 | 0-15'         | clear, warm, windy, (70's) | 15.0             |      |
| LENGTH       | 2.0'        |        | 5.0'     |             |         |               |                            |                  |      |
| TYPE         | STD.        |        | HSA      |             |         |               |                            |                  |      |
| HAMMER WT.   | 140#        |        |          |             |         |               |                            |                  |      |
| FALL         | 30"         |        |          |             |         |               |                            |                  |      |
| STICK UP     |             |        |          |             |         |               |                            |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. H2O background is .2 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | -                   | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ little fill material (glass shards, brick, wood, metal fragments). Dark brown, reddish brown, gray, very loose, damp.  |           |
| 2           | S-1                 | .2 / 2.0           | 2          |              | BG        | SAND, fine grained w/ trace silt. Dark brown to tan, very loose, damp.   |           |
| 3           |                     | 10%                | 3          |              |           |  |           |
| 4           | S-2                 | .5 / 2.0           | 2          |              | BG        |  |           |
| 5           |                     | 25%                | 4          |              |           | FILL material (glass shards, burnt soil, charcoal flecks, oxidized metal frags) w/ trace ceramic material. Dark brown, orange, black, dense, damp. |           |
| 6           | S-3                 | 1.1 / 2.0          | 8          |              | BG        |  |           |
| 7           |                     | 55%                | 3          |              |           |  |           |
| 8           | S-4                 | .8 / 2.0           | 3          |              | BG        | SAND, fine grained w/ trace silt. Pieces of ceramic material are present. Brown to white to dark brown, Match to Sheet 2                           |           |
| 9           |                     | 40%                | 0          |              |           |  |           |
|             | S-5                 | .3 / 2.0           | 18         | 05           | BG        |  |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB12

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB12

| SAMPLE TYPE     |                     |                      |              |  |                                    | DEFINITIONS  |           | Elevation |
|-----------------|---------------------|----------------------|--------------|--|------------------------------------|--|-----------|-----------|
| S = Split Spoon | A = Auger           | SPT                  |              | SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') |                                    | Visual Description   |           |           |
| T = Shelby Tube | W = Wash            | Rec. (Ft. & %)       | or RQD       | Design.  | RQD = Rock Quality Designation (%) |  |           |           |
| R = Air Rotary  | C = Core            |                      |              |  | PID = Photoionization Detector     |  |           |           |
| D = Denison     | P = Piston          |                      |              |  |                                    |  |           |           |
| N = No Sample   |                     |                      |              |  |                                    |  |           |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD   | Samp. Desig.   | PID (ppm)                          | Visual Description   | Elevation |           |
| 11.0            | S-5                 | 15%                  | 30<br>16     | OS   | BG                                 | Continued from Sheet 1 loose to very dense, damp   |           |           |
| 12.0            | S-6                 | NR                   | 5<br>1<br>8  |  | -                                  | NO RECOVERY  |           |           |
| 13.0            |                     |                      |              |  |                                    |  |           |           |
| 14.0            | S-7                 | .9<br>2.0            | 4<br>1<br>11 |  | BG                                 | SAND, fine grained w/ trace silt "Pea gravel" present (bottom 1/2 of sample) Dark brown to dark gray, medium dense, wet. |           |           |
| 15.0            |                     | 45%                  | 4            |  |                                    | End of Boring TD 15.0'   |           |           |
| 16              |                     |                      |              |  |                                    |  |           |           |
| 17              |                     |                      |              |  |                                    |  |           |           |
| 18              |                     |                      |              |  |                                    |  |           |           |
| 19              |                     |                      |              |  |                                    |  |           |           |
| 20              |                     |                      |              |  |                                    |  |           |           |
| 21              |                     |                      |              |  |                                    |  |           |           |
| 22              |                     |                      |              |  |                                    |  |           |           |
| 23              |                     |                      |              |  |                                    |  |           |           |
| 24              |                     |                      |              |  |                                    |  |           |           |
| 25              |                     |                      |              |  |                                    |  |           |           |
| 26              |                     |                      |              |  |                                    |  |           |           |
| 27              |                     |                      |              |  |                                    |  |           |           |
| 28              |                     |                      |              |  |                                    |  |           |           |
| 29              |                     |                      |              |  |                                    |  |           |           |
| 30              |                     |                      |              |  |                                    |  |           |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB12

SHEET 2 OF 2



# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB13

COORDINATES: EAST: 2498955.4600

NORTH: 302020.5680

ELEVATION: SURFACE: 15.106

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

|              |             |        |        |             |         |               |                           |                  |      |
|--------------|-------------|--------|--------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: #220    |             |        |        |             |         |               |                           |                  |      |
|              | SPLIT SPOON | CASING | AUGERS | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4/4"ID |             | 3-27-94 | 0-17'         | Clear, warm, windy (70's) | 15.5             |      |
| LENGTH       | 2.0'        |        | 5.0'   |             |         |               |                           |                  |      |
| TYPE         | STD.        |        | HSA    |             |         |               |                           |                  |      |
| HAMMER WT.   | 140#        |        |        |             |         |               |                           |                  |      |
| FALL         | 30"         |        |        |             |         |               |                           |                  |      |
| STICK UP     |             |        |        |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 17.0' and grouted to surface. H<sub>2</sub>O background is .2 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | 1.0                 | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ little "Pea gravel" and trace metal fragments. Dark brown to gray, very loose, damp             |           |
| 2           |                     | 1.3                | 6          |              |           |   |           |
| 3           | 3.0                 | 65%                | 12         |              | BG        | SAND, fine grained w/ trace silt. Glass shards present at .3' only. Dark brown, tan, green, medium dense, damp              |           |
| 4           |                     | NR                 | 50         |              |           |   |           |
| 5           | 5.0                 |                    | 0          |              | -         | NO RECOVERY   |           |
| 6           |                     | .8                 | 4          |              |           |   |           |
| 7           | 7.0                 | 40%                | 10         |              | BG        |   |           |
| 8           |                     | .7                 | 1          |              |           |   |           |
| 9           | 9.0                 | 35%                | 1          |              | BG        | SAND, fine grained w/ trace silt. Dark gray, dark brown, very loose to medium dense, damp. Glass shards at 9.6' (bgs) only. |           |
|             |                     | .8                 | 1          |              |           |   |           |
|             | S-5                 | 40%                | 1/12"      |              | BG        | Match to Sheet 2  |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB13

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB13

| 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            |                      |                  |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                      |                  |              |           |   |           |
| N = No Sample   |                     |                      |                  |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD       | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11              | 11.0 S-5            | 40%                  |                  |              | BG        | Continued from Sheet 1  |           |
| 12              | 12.0 S-6            | .7<br>2.0            | 1/12"            | OG           | BG        | SAND, fine grained w/trace silt. Dark gray, very loose damp.                    |           |
| 13              | 13.0                | 35%                  |                  |              |           |   |           |
| 14              | 14.0 S-7            | NR                   | 1<br>2<br>3<br>4 |              | -         | NO RECOVERY   |           |
| 15              | 15.0                |                      |                  |              |           |   |           |
| 16              | 16.0 S-8            | 1.8<br>2.0           | 3<br>4<br>5<br>7 |              | BG        | SAND, fine grained w/trace silt. Dark gray to brown, loose to medium dense, wet |           |
| 17              | 17.0                | 90%                  |                  |              |           | End of Boring<br>TD 17.0'   |           |
| 18              |                     |                      |                  |              |           |   |           |
| 19              |                     |                      |                  |              |           |   |           |
| 20              |                     |                      |                  |              |           |   |           |
| 21              |                     |                      |                  |              |           |   |           |
| 22              |                     |                      |                  |              |           |   |           |
| 23              |                     |                      |                  |              |           |   |           |
| 24              |                     |                      |                  |              |           |   |           |
| 25              |                     |                      |                  |              |           |   |           |
| 26              |                     |                      |                  |              |           |   |           |
| 27              |                     |                      |                  |              |           |   |           |
| 28              |                     |                      |                  |              |           |   |           |
| 29              |                     |                      |                  |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB13

SHEET 2 OF 2

## FIELD TEST BORING RECORD

PROJECT: Site 28 HPBD RIIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 28-W-SB14

COORDINATES: EAST: 2498938.3700

NORTH: 331719.6070

ELEVATION: SURFACE: 7.6438

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

|                  |                  |        |                  |  |                |               |                     |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-27-94</u> | <u>9</u>      | <u>Sunny + WARM</u> | <u>7</u>                       |      |
| LENGTH           | <u>2.0'</u>      |        | <u>5.0'</u>      |  |                |               | <u>windy</u>        |                                |      |
| TYPE             | <u>STD</u>       |        | <u>HSA</u>       |  |                |               |                     |                                |      |
| HAMMER WT.       | <u>140 lb</u>    |        |                  |  |                |               |                     |                                |      |
| FALL             | <u>30"</u>       |        |                  |  |                |               |                     |                                |      |
| STICK UP         |                  |        |                  |  |                |               |                     |                                |      |

REMARKS: BACKGROUND (BG) HNU = .7 ppm

| 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            | LAB  | 00                      | 100%                 | -                  | ∞           | BG        | SAND-FINE AND SILT ORGANICS AND DEBRIS.                         | BROWN           |                     | DAMP  |                |
| 2            |      | S-1                     | 2/2                  | 6                  |             | BG        | SAND-FINE AND SILT MUCH DEBRIS: GLASS, WOOD SAUCE, METAL        | BROWN           | MED DENSE           | DAMP  |                |
| 3            |      |                         | 100%                 | 7                  |             |           |   |                 |                     |   |                |
| 4            | LAB  | S-2                     | .83/2                | 5                  |             | BG        | SAND-FINE AND SILT  | BROWN 6" yellow | LOOSE               | DAMP  |                |
| 5            |      |                         | 42%                  | 3                  | 02          |           |   |                 |                     |   |                |
| 6            |      | S-3                     | -                    | 5                  |             |           | NO RECOVERY   |                 | VERY LOOSE          |   |                |
| 7            |      |                         |                      | 1                  |             |           |   |                 |                     |   |                |
| 8            |      | S-4                     | .42/2                | 2                  |             | BG        | WATER @ 7' SAND-FINE AND SILT                                   | BLACK           | LOOSE               | WET. WATER IS BLACK WITH STRONG SEWAGE ODOOR                          |                |
| 9            |      |                         | 21%                  | 1                  |             |           |   |                 |                     |   |                |
| 10           |      |                         |                      | 2                  |             |           | END OF BORING 9'  |                 |                     |   |                |

DRILLING CO.: EMTL

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 28-W-SB14

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD R/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB15

COORDINATES: EAST: 2499048.9700

NORTH: 331846.1860

ELEVATION: SURFACE: 8.6741

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

|                   |             |        |           |             |         |               |                         |                  |      |
|-------------------|-------------|--------|-----------|-------------|---------|---------------|-------------------------|------------------|------|
| RIG: # <u>220</u> |             |        |           |             |         |               |                         |                  |      |
|                   | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                 | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)      | 1-3/8" ID   |        | 4 1/4" ID |             | 3-25-94 | 0-15'         | overcast<br>mild (60's) | 13.5             |      |
| LENGTH            | 2.0'        |        | 5.0'      |             |         |               |                         |                  |      |
| TYPE              | STD.        |        | HSA       |             |         |               |                         |                  |      |
| HAMMER WT.        | 140#        |        |           |             |         |               |                         |                  |      |
| FALL              | 30"         |        |           |             |         |               |                         |                  |      |
| STICK UP          |             |        |           |             |         |               |                         |                  |      |

REMARKS: Boring sampled to 15.0' and grouted to surface. HWU background is .3 pp

### SAMPLE TYPE

- S = Split Spoon      A = Auger
- T = Shelby Tube    W = Wash
- R = Air Rotary      C = Core
- D = Denison        P = Piston
- N = No Sample

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | 1.0                 | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ rooted material and FILL material (metal wire, glass shards). Dark brown to brown, very loose, damp.                      |           |
| 2           |                     | 1.3                | 10         |              |           |   |           |
| 3           | 3.0                 | S-1                | 65%        | 8            | BG        | SAND, fine grained w/ trace silt and FILL material (burnt soil, glass shards and charcoal flecks). Dark brown to orange to black, medium dense, damp. |           |
| 4           |                     | .9                 | 5          |              |           |   |           |
| 5           | 5.0                 | S-2                | 45%        | 4            | BG        | SAND, fine grained w/ trace silt and FILL material (brick, ceramics). Dark brown to reddish brown, damp   |           |
| 6           |                     | 1.1                | 5          |              |           |   |           |
| 7           | 7.0                 | S-3                | 55%        | 1            | BG        | FILL material (brick, burnt soil, glass shards, charcoal flecks). Dark brown, to reddish  |           |
| 8           |                     | .7                 | 2          |              |           |   |           |
| 9           | 9.0                 | S-4                | 35%        | 8            | BG        | Dark brown, to reddish  |           |
|             |                     | .4                 | 5          |              |           |   |           |
|             |                     | S-5                | 20%        | 10           | OS        |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB15

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB15

| 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            |                      |            | PID = Photoionization Detector                             |           |  |           |
| D = Denison     | P = Piston          |                      |            |  |           |  |           |
| N = No Sample   |                     |                      |            |  |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description   | Elevation |
| 11.0            | S-5                 | 20%                  | 3<br>7     | OS   | BG        | Continued from Sheet 1 brown to black to dark gray, medium dense, damp to moist                                  |           |
| 12.0            | S-6                 | 1.1<br>2.0           | 6<br>4     |  |           | SAND, fine grained w/ trace silt. very small well rounded "Pea gravel". Dark gray to yellowish brown, dense, wet |           |
| 13.0            |                     | 55%                  | 16<br>21   |  | BG        |  |           |
| 14.0            | S-7                 | .7<br>2.0            | 10<br>10   |  |           | End of Boring<br>TD 15.0'  |           |
| 15.0            |                     | 35%                  | 22<br>12   |  | BG        |  |           |
| 16              |                     |                      |            |  |           |  |           |
| 18              |                     |                      |            |  |           |  |           |
| 19              |                     |                      |            |  |           |  |           |
| 20              |                     |                      |            |  |           |  |           |
| 21              |                     |                      |            |  |           |  |           |
| 22              |                     |                      |            |  |           |  |           |
| 23              |                     |                      |            |  |           |  |           |
| 24              |                     |                      |            |  |           |  |           |
| 25              |                     |                      |            |  |           |  |           |
| 26              |                     |                      |            |  |           |  |           |
| 27              |                     |                      |            |  |           |  |           |
| 28              |                     |                      |            |  |           |  |           |
| 29              |                     |                      |            |  |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB15

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB16

COORDINATES: EAST: 2499145.4200

NORTH: 332041.0290

ELEVATION: SURFACE: 11.6315

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

|              |             |        |           |             |         |               |                          |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                          |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                  | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-27-94 | 0-13'         | clear, warm windy (70'S) | 12.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                          |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                          |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                          |                  |      |
| FALL         | 30"         |        |           |             |         |               |                          |                  |      |
| STICK UP     |             |        |           |             |         |               |                          |                  |      |

REMARKS: Boring sampled to 13.0' and grouted to surface. HWA background is .2 ppm.

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | -                   | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ trace clay. Dark brown to gray, very loose, damp.                                 |           |
| 2           | S-1                 | 1.0 / 2.0          | 7 / 3      |              | BG        | FILL material (glass shards, pieces of brick, burnt soil). Dark brown, to brown to orange brown, loose, damp. |           |
| 3           |                     | 50%                | 6          |              |           |   |           |
| 4           | S-2                 | 1.3 / 2.0          | 3 / 3      |              | BG        | SAND, fine grained w/ trace silt. Reddish brown, medium dense, damp.  |           |
| 5           |                     | 65%                | 13         |              |           |   |           |
| 6           | S-3                 | 1.0 / 2.0          | 3 / 6      |              | BG        | FILL material (glass shards, brick, charcoal flecks). Reddish brown to black, medium dense, damp.             |           |
| 7           |                     | 50%                | 3          |              |           |   |           |
| 8           | S-4                 | .4 / 2.0           | 3 / 12"    | 04           | BG        | SAND, fine grained w/ trace silt. Brown, very loose, damp.  |           |
| 9           |                     | 20%                | 1 / 12"    |              |           |   |           |
|             | S-5                 | .1 / 2.0           | 1 / 6"     |              | BG        | FILL material (pieces of brick)<br>Match to Sheet 2   |           |
|             |                     | 5%                 |            |              |           |   |           |

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB16

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB16

| 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            |                      |            | PID = Photoionization Detector                             |           |  |           |
| D = Denison     | P = Piston          |                      |            |  |           |  |           |
| N = No Sample   |                     |                      |            |  |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0 S-5            | 5%                   | 1/18"      |  | BG        | Continued from Sheet 1 Reddish brown to dark gray, very loose, moist.  |           |
| 12              |                     | 1.1                  | 3          |  |           | SAND, fine grained w/trace silt<br>Leached FILL material (brick) top<br>of sample only. Reddish brown to dark gray, loose, wet | ▼         |
| 12              | S-6                 | 2.0                  | 4          |  | BG        |  |           |
| 13              | 13.0                | 55%                  | 5          |  |           | End of Boring<br>TD 13.0'  |           |
| 14              |                     |                      |            |  |           |  |           |
| 15              |                     |                      |            |  |           |  |           |
| 16              |                     |                      |            |  |           |  |           |
| 18              |                     |                      |            |  |           |  |           |
| 19              |                     |                      |            |  |           |  |           |
| 20              |                     |                      |            |  |           |  |           |
| 21              |                     |                      |            |  |           |  |           |
| 22              |                     |                      |            |  |           |  |           |
| 23              |                     |                      |            |  |           |  |           |
| 24              |                     |                      |            |  |           |  |           |
| 25              |                     |                      |            |  |           |  |           |
| 26              |                     |                      |            |  |           |  |           |
| 27              |                     |                      |            |  |           |  |           |
| 28              |                     |                      |            |  |           |  |           |
| 29              |                     |                      |            |  |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB16

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB17

COORDINATES: EAST: 249916.6700

NORTH: 332163.2630

ELEVATION: SURFACE: 12.4467

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

|              |             |        |           |             |         |               |                       |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-25-94 | 0-13'         | overcast, mild (60's) | 12.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                       |                  |      |
| FALL         | 30"         |        |           |             |         |               |                       |                  |      |
| STICK UP     |             |        |           |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 13.0' and grouted to surface. MW background is .3 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           |                     |                    |            | 00           | BG        | SILTY SAND, fine grained. Gray to dark brown, very loose, damp.   |           |
| 2           | S-1                 | .4<br>2.0          | 7<br>6     |              | BG        | FILL material (brick, burnt soil, glass shards, charcoal flecks) w/ SAND, fine grained w/ trace silt. Dark brown to reddish brown, dark gray to brownish orange, loose to medium dense, damp. |           |
| 3           |                     | 20%                | 5"         |              |           |   |           |
| 4           | S-2                 | .7<br>2.0          | 5<br>7     |              | BG        |   |           |
| 5           |                     | 35%                | 3          |              |           |   |           |
| 6           | S-3                 | .4<br>2.0          | 1<br>2     |              | BG        | SAND, fine grained w/ trace silt. Brown, medium dense, damp.  |           |
| 7           |                     | 20%                | 10         |              |           |   |           |
| 8           | S-4                 | .8<br>2.0          | 2<br>2     |              | BG        | FILL material (brick, burnt soil) Brown, black, orange  |           |
| 9           |                     | 40%                | 2          |              |           | SAND, fine grained w/ trace silt. Brown, very loose, damp.<br>(Metal wire in auger cuttings) Match to Sheet 2   |           |
|             | S-5                 | .4<br>2.0          | 3<br>1     | 05           | BG        |   |           |

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB17

SHEET 1 OF 2



# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB17

| 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            |                      |            |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                      |            |              |           |   |           |
| N = No Sample   |                     |                      |            |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11              | 11.0 S-5            | 20%                  | 2<br>47    | OS           | BG        | Continued from Sheet 1  |           |
| 12              | S-6                 | .2<br>2.0            | 27<br>28   |              | BG        | SAND, fine grained w/ trace silt glass shards and shell material. Dark gray to white, loose, moist to wet |           |
| 13              | 13.0                | 10%                  | 50<br>5"   |              |           |   |           |
| 14              |                     |                      |            |              |           | End of Boring<br>TD 13.0'   |           |
| 15              |                     |                      |            |              |           |   |           |
| 16              |                     |                      |            |              |           |   |           |
| 18              |                     |                      |            |              |           |   |           |
| 19              |                     |                      |            |              |           |   |           |
| 20              |                     |                      |            |              |           |   |           |
| 21              |                     |                      |            |              |           |   |           |
| 22              |                     |                      |            |              |           |   |           |
| 23              |                     |                      |            |              |           |   |           |
| 24              |                     |                      |            |              |           |   |           |
| 25              |                     |                      |            |              |           |   |           |
| 26              |                     |                      |            |              |           |   |           |
| 27              |                     |                      |            |              |           |   |           |
| 28              |                     |                      |            |              |           |   |           |
| 29              |                     |                      |            |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB17

SHEET 2 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 28 - HPBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-W-5B18  
 COORDINATES: EAST: 2499160.0300 NORTH: 331746.4500  
 ELEVATION: SURFACE: 4.8806 TOP OF PVC CASING: \_\_\_\_\_

|                  |                |        |                |             |                |               |                        |                                |      |
|------------------|----------------|--------|----------------|-------------|----------------|---------------|------------------------|--------------------------------|------|
| RIG: <u>B-57</u> |                |        |                |             | DATE           | PROGRESS (FT) | WEATHER                | TOP OF CASING WATER DEPTH (FT) | TIME |
|                  | SPLIT SPOON    | CASING | AUGERS         | CORE BARREL |                |               |                        |                                |      |
| SIZE (DIAM.)     | <u>3/8" ID</u> |        | <u>3/4" ID</u> |             | <u>3-27-18</u> | <u>7</u>      | <u>OVERCAST + WIND</u> | <u>3</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: BACKGROUND (Bg) Hvu = .7 ppm

| 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 |
|              |      |           |                      |                    | R           | O  | C   |                |                     |   |                |
| 1            | LAB  | 00        | 100%                 | -                  | 00          | Bg | SILT, MINOR DEBRIS  | BLACK          |                     | DAMP  |                |
| 2            | LAB  | S-1       | $\frac{.33}{2}$      | 4                  | 01          | Bg | SILT  | BLACK          | VERY DENSE          | DAMP  |                |
| 3            |      |           | 17%                  | 7                  |             |    | WATER @ 3'  |                |                     |   |                |
| 4            |      | S-2       | $\frac{.83}{2}$      | 7                  |             | Bg | SAND-FINE AND SILT  | BLACK          | MED DENSE           | WET   |                |
| 5            |      |           | 42%                  | 13                 |             |    |   |                |                     |   |                |
| 6            |      | S-3       | $\frac{.83}{2}$      | 6                  |             | Bg | SAND-FINE AND SILT<br>4" SAND-FINE AND SILT               | BLACK<br>WHITE | LOOSE               | WET   |                |
| 7            |      |           | 42%                  | 3                  |             |    |   |                |                     |   |                |
| 8            |      |           |                      | 5                  |             |    |   |                |                     |   |                |
| 9            |      |           |                      | 4                  |             |    | END OF BORING 7'  |                |                     |   |                |
| 10           |      |           |                      |                    |             |    |   |                |                     |   |                |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-W-5B18 SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-w-SB19

COORDINATES: EAST: 2499235.5300

NORTH: 331851.8370

ELEVATION: SURFACE: 4.7603

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

|              |             |        |           |             |         |               |                       |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-25-94 | 0-9'          | overcast, mild (60's) | 7.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                       |                  |      |
| FALL         | 30"         |        |           |             |         |               |                       |                  |      |
| STICK UP     |             |        |           |             |         |               |                       |                  |      |

REMARKS: Boring is sampled to 9.0' and grouted to surface. HNU background is .2 ppm

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube    W = Wash
- R = Air Rotary      C = Core
- D = Denison        P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | -                   | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ root material and glass shards. Brown to green to clear, very loose, damp.                |           |
| 2           | S-1                 | 1.6<br>2.0         | 6<br>33    |              | BG        |   |           |
| 3           |                     | 80%                | 17         |              |           | SAND, fine grained w/ trace silt and CLAY and FILL material (glass shards). Brown to dark brown to clear, dense damp. |           |
| 4           | S-2                 | 1.3<br>2.0         | 8<br>11    |              | BG        |   |           |
| 5           |                     | 65%                | 13         |              |           |   |           |
| 6           | S-3                 | 1.4<br>2.0         | 5<br>4     |              | BG        |   |           |
| 7           |                     | 70%                | 1          | 03           | BG        | CLAY, grayish green, moist stiff  |           |
| 8           |                     | .9<br>2.0          | 1/2<br>6   |              | BG        | SILTY SAND, fine grained w/ trace to little CLAY. Brown to greenish gray medium dense to stiff, moist to wet.         |           |
| 9           | S-4                 | 45%                | 11         |              |           | End of Boring<br>TD 9.0'  |           |
|             |                     |                    |            |              |           | Match to Sheet 2  |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-w-SB19

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB20

COORDINATES: EAST: 2499296.5500

NORTH: 331719.2810

ELEVATION: SURFACE: 2.7857

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

|              |             |        |           |             |         |               |                       |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-25-94 | 0-5'          | overcast, mild (60'S) | 3.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                       |                  |      |
| FALL         | 30"         |        |           |             |         |               |                       |                  |      |
| STICK UP     |             |        |           |             |         |               |                       |                  |      |

REMARKS: Boring Sampled to 5.0' and grouted to surface. HNu background is .3 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | -                   | -                  | -          | 00           | BG        | SILTY SAND, fine grained. Dark brown to gray, very loose, damp. Glass shards                              |           |
| 2           | S-1                 | .8 / 20            | 7 / 8      | 01           | BG        | SAND, fine grained w/ little CLAY and trace silt. Dark gray to greenish gray, medium dense, damp to moist |           |
| 3           |                     | 40%                | 12         |              |           |   |           |
| 4           | S-2                 | .2 / 20            | 5 / 3      |              | BG        | SAND, fine grained w/ trace silt. Dark gray, loose, wet.  |           |
| 5           |                     | 10%                | 1          |              |           |   |           |
| 6           |                     |                    |            |              |           | End of Boring<br>TD 5.0'  |           |
| 7           |                     |                    |            |              |           |   |           |
| 8           |                     |                    |            |              |           |   |           |
| 9           |                     |                    |            |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB20

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB21  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |                |               |             |                                |      |
|------------------|------------------|--------|----------------|-------------|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</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>3-25-94</u> | <u>7</u>      | <u>RAIN</u> | <u>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: BACKGROUND (BG) HNU 7:02 AM

| DRILL RECORD |              |   |                            |                             |                |              | VISUAL DESCRIPTION  |       |                           |  |              |           |
|--------------|--------------|---|----------------------------|-----------------------------|----------------|--------------|---|-------|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No<br>Samp. | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab.<br>Class. | PID<br>(ppm) | Classification<br>(Grain Size, Principal<br>Constituents, Etc.) | Color | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            | RQD<br>(Ft. &<br>%)         |                |              | Pen.<br>Rate  |       |                           |  |              |           |
| 1            | LAB          | 00  | 100%                       | —                           | 00             | BG           | VERY SATURATED BROWN MUD  | BROWN |                           | WET  |              |           |
| 2            |              | S-1   | 1.08<br>2                  | 4                           |                |              | CLAY SOME SAND-FINE   | GREEN | STIFF                     | DAMP   |              |           |
| 3            |              |   | 54%                        | 6                           |                |              |   |       |                           |  |              |           |
| 4            | LAB          | S-2   | .75<br>2                   | 2                           | 02             | BG           | SILT LITTLE SAND-FINE   | GREEN | LOOSE                     | MOIST  |              |           |
| 5            |              |   | 35%                        | 3                           |                |              |   |       |                           |  |              |           |
| 6            |              | S-3   | 1.08<br>2                  | 1                           |                | BG           | WATER @ 5'<br>SILT TRAIL SAND-FINE                              | GREEN | VERY LOOSE                | WET  |              |           |
| 7            |              |   | 54%                        | 1                           |                |              |   |       |                           |  |              |           |
| 8            |              |   |                            |                             |                |              | END OF BORING 7'  |       |                           |  |              |           |
| 9            |              |   |                            |                             |                |              |   |       |                           |  |              |           |
| 10           |              |   |                            |                             |                |              |   |       |                           |  |              |           |

DRILLING CO.: EMTC  
 DRILLER: J.M. MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-SB21 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HYBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB22  
 COORDINATES: EAST: 2499476.0500 NORTH: 331895.0400  
 ELEVATION: SURFACE: 4.6675 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |                     |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>5-26-94</u> | <u>7</u>      | <u>SUNNY + COOL</u> | <u>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: BACKGROUND (BG) HNU = .2 ppm

| DRILL RECORD |              |   |                            |                             |              |              | VISUAL DESCRIPTION  |             |                           |  |              |           |
|--------------|--------------|---|----------------------------|-----------------------------|--------------|--------------|---|-------------|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No.<br>(N =<br>No<br>Samp.) | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab. Class.  |              | Classification<br>(Grain Size, Principal<br>Constituents, Etc.) | Color       | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            | RQD<br>(Ft. &<br>%)         | Pen.<br>Rate | PID<br>(ppm) |   |             |                           |  |              |           |
| 1            | LAB          | 00  | 100%                       | -                           | 00           | BG           | SAND-FINE AND SILT<br>TRACE ORGANICS                            | BROWN       |                           | DAMP   |              |           |
| 2            |              | S-1   | 2/2                        | 4                           |              | BG           | 10" SAND-FINE AND SILT<br>CLAY AND SAND-FINE                    | GREEN STIFF |                           | DAMP   |              |           |
| 3            |              |   | 100%                       | 8                           |              |              | SAND-FINE AND SILT  | GREEN LOOSE |                           | MOIST  |              |           |
| 4            | LAB          | S-2   | 3/2                        | 4                           | 02           | BG           |   |             |                           |  |              |           |
| 5            |              |   | 100%                       | 4                           |              |              | WATER @ 5'  |             |                           |  |              |           |
| 6            |              | S-3   | 1.41/2                     | 1                           |              | BG           | 10" ORGANICS AND SILT   | BLACK       | VERY LOOSE                | WET  |              |           |
| 7            |              |   | 71%                        | 1                           |              |              | END OF BORING 7'  |             |                           |  |              |           |
| 8            |              |   |                            |                             |              |              |   |             |                           |  |              |           |
| 9            |              |   |                            |                             |              |              |   |             |                           |  |              |           |
| 10           |              |   |                            |                             |              |              |   |             |                           |  |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-SB22 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 28 HPBD RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB23  
 COORDINATES: EAST: 2499717.2400 NORTH: 331866.2620  
 ELEVATION: SURFACE: 13.9987 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |                |               |                       |                                |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|-----------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-26-94</u> | <u>9</u>      | <u>SUNNY AND COOL</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: BACKGROUND (BG) Hnu = .3 ppm

| 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 |   |                    |                     |   |      |           |
| 1            | LAB  | 00        | 100%                   | —                  | 00           | BG        | SAND-F AND Silt   | Black              |                     | DAMP  |      |           |
| 2            |      | S-1       | $\frac{.92}{2}$<br>46% | 3<br>6<br>9        |              | .4        | CLAY LITTLE SAND-FINE                                     | lt. Brown          | STIFF               | DAMP  |      |           |
| 3            |      |           | $\frac{1.16}{2}$       | 3<br>5<br>7        |              | BG        | CLAY LITTLE SAND-FINE                                     | ORANGE<br>3" GREEN | STIFF               | DAMP  |      |           |
| 4            |      | S-2       | 58%                    | 3<br>6<br>7        |              | BG        | CLAY SOME SAND-FINE                                       | YELLOW             | VERY STIFF          | DAMP  |      |           |
| 5            | LAB  | S-3       | $\frac{.83}{2}$<br>42% | 3<br>6<br>10       |              | 03<br>BG  | CLAY TRACE SAND-FINE                                      | GREEN              | STIFF               | WET   |      |           |
| 6            |      |           | $\frac{.42}{2}$        | 4<br>7<br>7        |              | BG        | WATER @ 7'  |                    |                     |   |      |           |
| 7            |      | S-4       | 21%                    | 5<br>7             |              | BG        | CLAY TRACE SAND-FINE                                      | GREEN              | STIFF               | WET   |      |           |
| 8            |      |           |                        |                    |              |           | END OF BORING 9'  |                    |                     |   |      |           |
| 9            |      |           |                        |                    |              |           |   |                    |                     |   |      |           |
| 10           |      |           |                        |                    |              |           |   |                    |                     |   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-F-SB23 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-5824  
 COORDINATES: EAST: 2499910.63 NORTH: 331538.75  
 ELEVATION: SURFACE: 11.73 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |                |               |                     |                                |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-26-94</u> | <u>9</u>      | <u>Sunny + cool</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: BACKGROUND (BG) H<sub>2</sub>O = .2

| DRILL RECORD |              |   |                            |                             |              |              | VISUAL DESCRIPTION  |        |                           |  |              |           |
|--------------|--------------|---|----------------------------|-----------------------------|--------------|--------------|---|--------|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No Samp.) | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab. Class.  |              | Classification<br>(Grain Size, Principal<br>Constituents, Etc.) | Color  | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            | RQD<br>(Ft. &<br>%)         | Pen.<br>Rate | PID<br>(ppm) |   |        |                           |  |              |           |
| 1            | LAB          | 00  | 100%                       | -                           | 00           | BG           | SILT LITTLE SAND-FINE ORGANICS                                  | BROWN  |                           | DRY  |              |           |
| 2            |              | S-1   | $\frac{1.33}{2}$           | 6                           |              | BG           | SILT LITTLE SAND-FINE   | BROWN  | MED DENSE                 | DRY  |              |           |
| 3            |              |   | 67%                        | 5                           |              |              |   |        |                           |  |              |           |
| 4            |              | S-2   | $\frac{.83}{2}$            | 4                           |              | BG           | CLAY TRACE SAND-FINE  | YELLOW | MED STIFF                 | DAMP   |              |           |
| 5            |              |   | 42%                        | 5                           |              |              |   |        |                           |  |              |           |
| 6            | LAB          | S-3   | $\frac{1.16}{2}$           | 6                           |              | BG           | CLAY  | YELLOW | STIFF                     | DAMP   |              |           |
| 7            |              |   | 58%                        | 10                          |              |              |   |        |                           |  |              |           |
| 8            |              | S-4   | $\frac{.25}{2}$            | 3                           |              | BG           | WATER @ 7'<br>SAND-FINE LITTLE SILT                             | YELLOW | LOOSE                     | WET  |              |           |
| 9            |              |   | 37%                        | 5                           |              |              |   |        |                           |  |              |           |
| 10           |              |   |                            |                             |              |              | END OF BORING 9'  |        |                           |  |              | 2.73      |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5824 SHEET 1 OF 1



## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPRD RELIEF MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB25  
 COORDINATES: EAST: 249931.2100 NORTH: 331636.3070  
 ELEVATION: SURFACE: 15.2300 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |                |               |                 |                                |      |
|------------------|------------------|--------|----------------|-------------|----------------|---------------|-----------------|--------------------------------|------|
| RIG: <u>B-57</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>5/4" ID</u> |             | <u>3-25-94</u> | <u>11</u>     | <u>DRI 22/E</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: BACKGROUND (Bg) HNU = 0.4 ppm

| DRILL RECORD |      |           |                      |                    |                         |               | VISUAL DESCRIPTION  |           |   |   |                |
|--------------|------|-----------|----------------------|--------------------|-------------------------|---------------|---|-----------|---|---|----------------|
| DEPTH        | SOIL | Sample ID | Samp. Rec. (Ft. & %) | SPT Blows Per 0.5' | Lab. Class.             |               | Classification (Grain Size, Principal Constituents, Etc.) | Color     | Consist. or Density   | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL ELEVATION |
|              |      |           |                      |                    | Type No. (N = No Samp.) | RQD (Ft. & %) | Pen. Rate   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color   |                |
| 1            | LAB  | 00        | 100%                 | -                  | ∞                       | BG            | SAND-F AND SILT   | Black     |   | DAMP  |                |
| 2            |      |           | 1.25/2               | 2                  |                         |               | SILT AND SAND-FINE TRACE WOOD                             | Black     | LOOSE   | DAMP  |                |
| 3            |      | S-1       | 63%                  | 3                  |                         | BG            | 2" SAND-FINE  | ORANGE    |   |   |                |
| 4            |      |           | 1.33/2               | 3                  |                         |               | SAND-FINE AND SILT LITTLE ORGANICS                        | Black     | LOOSE   | WET   |                |
| 5            |      | S-2       | 47%                  | 4                  |                         | BG            |   |           |   |   |                |
| 6            | LAB  | S-3       | 1.41/2               | 4                  | 03                      | BG            | SAND-FINE AND SILT LITTLE ORGANICS                        | LI. GRAY  | MED DENSE   | MOIST   |                |
| 7            |      |           | 71%                  | 13                 |                         |               | WATER @ 7'  |           |   |   |                |
| 8            |      | S-4       | .67/2                | 6                  |                         | BG            | SILT LITTLE SAND-FINE AND ORGANICS                        | Black     | MED DENSE   | WET   |                |
| 9            |      |           | 33%                  | 6                  |                         |               |   |           |   |   |                |
| 10           |      | S-5       |                      | 7                  |                         | BG            | NO RECOVERY   |           |   |   |                |
|              |      |           |                      | 8                  |                         |               |   |           |   |   |                |
|              |      |           |                      | 9                  |                         |               |   |           |   |   |                |
|              |      |           |                      | 15                 |                         |               | END OF BORING 11'   |           |   |   |                |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-SB25 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB26  
 COORDINATES: EAST: 2499946.9400 NORTH: 331700.6530  
 ELEVATION: SURFACE: 15.9800 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |                |               |                     |                                |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-26-94</u> | <u>11</u>     | <u>SUNNY + COOL</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: BACKGROUND (BG) HMMU = .2 ppm

| 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 |
|              |           |           |                      | RQD (Ft. & %)      |             |           | Pen. Rate   | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color               | Hardness  |           |           |
| 1            | LAB       | 00        | 100%                 | -                  | 00          | BG        | SAND-FINE AND SILT  | BLACK   |                     | DRY   |           |           |
| 2            |           | 5-1       | 1.5/2                | 4                  |             | BG        | SAND-FINE AND SILT  | BLACK   | MED DENSE           | DAMP  |           |           |
| 3            |           |           | 75%                  | 8                  |             | BG        | 5" SAND-FINE  | WHITE   |                     | DAMP  |           |           |
| 4            |           | 5-2       | .92/2                | 3                  |             | BG        | SAND-FINE AND SILT  | YELLOW  | MED DENSE           | MOIST   |           |           |
| 5            |           |           | 46%                  | 7                  |             | BG        |   |   |                     |   |           |           |
| 6            | LAB       | 5-3       | 2/2                  | 5                  | 03          | BG        | 5" SAND-FINE AND SILT                                     | BLACK   | MED                 | MOIST   |           |           |
| 7            |           |           | 100%                 | 3                  |             |           | 19" CLAY  | YELLOW  | STIFF               |   |           |           |
| 8            |           | 5-4       | 1.5/2                | 2                  |             | BG        | WATER @ 7'  |   |                     |   |           |           |
| 9            |           |           | 75%                  | 4                  |             | BG        | SAND-FINE AND SILT  | YELLOW  | LOOSE               | MOIST   |           |           |
| 10           |           | 5-5       | 2/2                  | 4                  |             | BG        | SAND-FINE AND SILT  | YELLOW  | SOFT                | WET   |           |           |
|              |           |           |                      | 1                  |             | BG        | LITTLE CLAY   |   |                     |   |           |           |
|              |           |           |                      | 2                  |             | BG        |   |   |                     |   |           |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A TUA  
 BORING NO.: 28-E-SB26 SHEET 1 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RIFES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-5826

| DRILL RECORD |      |                         |            |                    |             |           | VISUAL DESCRIPTION  |       |                     |   |      |           |
|--------------|------|-------------------------|------------|--------------------|-------------|-----------|---|-------|---------------------|---|------|-----------|
| DEPTH        | SOIL | Sample ID               | Samp. Rec. | SPT Blows Per 0.5' | Lab. Class. |           | Classification (Grain Size, Principal Constituents, Etc.)       | Color | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL | ELEVATION |
|              | ROCK | Type-No. (N = No Samp.) | (Ft. & %)  | RQD (Ft. & %)      | Pen. Rate   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               | ROCK |           |
| 11           |      | S-5                     | 100%       | 1<br>2             |             | BS        | CONTINUED   |       |                     |   |      |           |
| 11           |      |                         |            |                    |             |           | END OF BORING 11'   |       |                     |   |      |           |
| 2            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 3            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 4            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |       |                     |   |      |           |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5826 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-E-SB27

COORDINATES: EAST: 2499885.05

NORTH: 331847.22

ELEVATION: SURFACE: 14.46

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

|                  |             |        |           |             |         |               |                   |                  |      |
|------------------|-------------|--------|-----------|-------------|---------|---------------|-------------------|------------------|------|
| RIG: MOBILE B-61 |             |        |           |             | DATE    | PROGRESS (FT) | WEATHER           | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | 3-28-94 | 0.0'-11.0'    | PARTLY SUNNY ±70° | 9.0'             |      |
| LENGTH           | 2.0'        |        | 3/4" I.D. | 5.0'        |         |               |                   |                  |      |
| TYPE             | STD.        |        | HSA       |             |         |               |                   |                  |      |
| HAMMER WT.       | 140#        |        |           |             |         |               |                   |                  |      |
| FALL             | 30"         |        |           |             |         |               |                   |                  |      |
| STICK UP         |             |        |           |             |         |               |                   |                  |      |

REMARKS: Boring sampled to 11.0' and grouted to surface, HNU B47.2 ppm

**SAMPLE TYPE**  
 S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**  
 SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | —                  | —          | 00           | BG        | SAND, fine grained, some silt, trace clay, trace organics, brown, damp   |           |
| 2           | S-1                 | 0.6 / 2.0          | 5 / 10     |              | BG        | SILT, trace sand, trace clay, brown, very stiff, damp  |           |
| 3           |                     | 30%                | 11         |              |           |  |           |
| 4           | S-2                 | 0.9 / 2.0          | 6 / 9      |              | BG        | SAND, some silt, trace brick, trace glass, brown, very stiff, damp   |           |
| 5           |                     | 45%                | 9          |              |           |  |           |
| 6           | S-3                 | 0.5 / 2.0          | 10 / 12    |              | 0.5       | SILT, little sand, trace clay, large wood fragment present, trace metal fragments, tan, dense, damp                |           |
| 7           |                     | 25%                | 5          |              |           |  |           |
| 8           | S-4                 | 0.6 / 2.0          | 6 / 5      | 04           | BG        | SAND, fine grained, little silt, trace clay, trace slag, trace glass, trace brick, tan, moist, medium dense, moist |           |
| 9           |                     | 30%                | 4          |              |           |  |           |
|             | S-5                 | 1.4 / 2.0          | 6 / 5      |              | BG        | SILT, trace wood fragments, brown, loose, wet  |           |
|             |                     | 70%                |            |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 28-E-SB27

SHEET 1 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-E-SB 27

| 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            |                      |            |              |           | PID = Photolionization Detector                            |           |
| D = Denison     | P = Piston          |                      |            |              |           |  |           |
| N = No Sample   |                     |                      |            |              |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0                |                      | 4<br>2     |              |           | Continued from Sheet 1                                     | 3.46      |
| 12              |                     |                      |            |              |           | END OF BORING<br>TOTAL DEPTH = 11.0'                       |           |
| 13              |                     |                      |            |              |           |  |           |
| 14              |                     |                      |            |              |           |  |           |
| 15              |                     |                      |            |              |           |  |           |
| 16              |                     |                      |            |              |           |  |           |
| 17              |                     |                      |            |              |           |  |           |
| 18              |                     |                      |            |              |           |  |           |
| 19              |                     |                      |            |              |           |  |           |
| 20              |                     |                      |            |              |           |  |           |
| 21              |                     |                      |            |              |           |  |           |
| 22              |                     |                      |            |              |           |  |           |
| 23              |                     |                      |            |              |           |  |           |
| 24              |                     |                      |            |              |           |  |           |
| 25              |                     |                      |            |              |           |  |           |
| 26              |                     |                      |            |              |           |  |           |
| 27              |                     |                      |            |              |           |  |           |
| 28              |                     |                      |            |              |           |  |           |
| 29              |                     |                      |            |              |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 28-E-SB 27

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPAD RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-5828  
 COORDINATES: EAST: 2499994.83 NORTH: 331544.86  
 ELEVATION: SURFACE: 17.46 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |  |                |               |                |                                |      |
|------------------|------------------|--------|----------------|--|----------------|---------------|----------------|--------------------------------|------|
| RIG: <u>B-57</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>3-25-94</u> | <u>9</u>      | <u>DRIZZLE</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: BACKGROUND (Bg) H<sub>2</sub>O = 0.1

| 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   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color     | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |                |
| 1            | LAB  | 00                      | 100%       | -                  | 00          | B6        | SILT AND SAND-FINE AND ORGANICS                                 | Black     |                     | DAMP  |                |
| 2            |      | S-1                     | 1/2        | 3                  |             | B6        | SAND-FINE LITTLE SILT TRACE CLAY                                | TAN       | LOOSE               | DAMP  |                |
| 3            |      |                         | 50%        | 6                  |             |           |   |           |                     |   |                |
| 4            |      | S-2                     | 1.35/2     | 7                  |             | B6        | SAND-FINE LITTLE CLAY TRACE SILT                                | LT. BROWN | MED STIFF           | MOIST   |                |
| 5            |      |                         | 98%        | 3                  |             |           |   |           |                     |   |                |
| 6            | LAB  | S-3                     | 2/2        | 3                  |             | B6        | 14" SAND-F LITTLE CLAY 10" CLAY TRACE SAND-FINE                 | LT. BROWN | STIFF               | MOIST   |                |
| 7            |      |                         | 100%       | 4                  | 03          |           |   |           |                     |   |                |
| 8            |      | S-4                     | 1.60/2     | 4                  |             | B6        | WATER @ 7' SAND-F TRACE SILT SOME CLAY                          | YELLOW    | STIFF               | MOIST TO WET  |                |
| 9            |      |                         | 79%        | 4                  |             |           |   |           |                     |   |                |
| 10           |      |                         |            | 3                  |             |           | END OF BORING 9'  |           |                     |   | 8.4            |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5828 SHEET 1 OF 1

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RIFTS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-5829  
 COORDINATES: EAST: 2499994.00 NORTH: 331664.18  
 ELEVATION: SURFACE: 16.91 TOP OF PVC CASING: \_\_\_\_\_

|                  |             |        |                  |             |                |               |                         |                                |      |
|------------------|-------------|--------|------------------|-------------|----------------|---------------|-------------------------|--------------------------------|------|
| RIG: <u>B-57</u> |             |        |                  |             | DATE           | PROGRESS (FT) | WEATHER                 | TOP OF CASING WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | SPLIT SPOON | CASING | AUGERS           | CORE BARREL |                |               |                         |                                |      |
| LENGTH           | <u>2.0'</u> |        | <u>3 1/4" ID</u> |             | <u>3-26-94</u> | <u>7</u>      | <u>SUNNY &amp; COOL</u> | <u>5</u>                       |      |
| TYPE             | <u>STD</u>  |        | <u>HSA</u>       |             |                |               |                         |                                |      |
| HAMMER WT.       | <u>140#</u> |        |                  |             |                |               |                         |                                |      |
| FALL             | <u>30"</u>  |        |                  |             |                |               |                         |                                |      |
| STICK UP         |             |        |                  |             |                |               |                         |                                |      |

REMARKS: BACKGROUND (BG) Hvu = .2

| DRILL RECORD |           |           |                      |                    |              |           | VISUAL DESCRIPTION  |                  |                     |   |           | SOIL ELEVATION  |
|--------------|-----------|-----------|----------------------|--------------------|--------------|-----------|---|------------------|---------------------|---|-----------|---|
| 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 |           |   |
|              |           |           |                      |                    | RQD (FL & %) | Pen. Rate |   |                  |                     |   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) |
| 1            | LAB       | 00        | 100%                 | —                  | 00           | BG        | SAND-FINE AND SILT  | BLACK            |                     | DRY   |           |   |
| 2            |           | S-1       | 1.25/2               | 5                  |              | BG        | SAND-FINE TRACE SILT  | GRAY             | LOOSE               | WET   |           |   |
| 3            |           |           | 63%                  | 8                  |              |           |   |                  |                     |   |           |   |
| 4            |           | S-2       | 1.08/2               | 3                  |              | BG        | 6" SAND-FINE TRACE SILT<br>7" SAND-FINE LITTLE SILT<br>TRACE CLAY | GRAY<br>LT BROWN | MED DENSE           | MOIST   |           |   |
| 5            |           |           | 54%                  | 15                 |              |           |   |                  |                     |   |           |   |
| 6            |           | S-3       | 1.25/2               | 3                  |              | BG        | 4" SAND-FINE SOME SILT<br>11" SAND-FINE SOME SILT                 | WHITE<br>YELLOW  | MED DENSE           | WET   |           |   |
| 7            |           |           | 63%                  | 5                  |              |           | END OF BORING 7'  |                  |                     |   | 9.91      |   |
| 8            |           |           |                      |                    |              |           |   |                  |                     |   |           |   |
| 9            |           |           |                      |                    |              |           |   |                  |                     |   |           |   |
| 10           |           |           |                      |                    |              |           |   |                  |                     |   |           |   |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5829 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB30  
 COORDINATES: EAST: 2500056.46 NORTH: 331738.93  
 ELEVATION: SURFACE: 20.31 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |                     |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-26-94</u> | <u>13</u>     | <u>SUNNY + COOL</u> | <u>12</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: BACKGROUND (BG) HNU = .2 ppm

| DRILL RECORD |              |  |                      |                    |             |           | VISUAL DESCRIPTION  |          |                     |   |              |           |
|--------------|--------------|--|----------------------|--------------------|-------------|-----------|---|----------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>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<br>ROCK | ELEVATION |
|              |              |  |                      | RQD (Ft. & %)      | Pen. Rate   |           | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color    | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |              |           |
| 1            | LAB          | 00                                     | 100%                 | -                  | 00          | BG        | SAND-FINE SOME SILT   | BROWN    |                     | DRY   |              |           |
| 2            |              | S-1                                    | 1.5/2                | 3                  |             |           | SAND-FINE LITTLE SILT   | LT. GRAY |                     | DRY   |              |           |
| 3            |              |  | 75%                  | 4                  |             | BG        | SAND-FINE TRACE SILT  | WHITE    |                     | DRY   |              |           |
| 4            |              | S-2                                    | 1.67/2               | 4                  |             |           | SAND-FINE TRACE SILT  | WHITE    |                     | DRY   |              |           |
| 5            |              |  | 83%                  | 6                  |             | BG        | SAND-FINE LITTLE SILT   | WHITE    |                     | MOIST   |              |           |
| 6            | LAB          | S-3                                    | 1.75/2               | 10                 | 03          | BG        | SAND-FINE LITTLE SILT   | WHITE    |                     | MOIST MOTTLED   |              |           |
| 7            |              |  | 88%                  | 10                 |             |           | SAND-FINE TRACE SILT  | ORANGE   |                     | DAMP  |              |           |
| 8            |              | S-4                                    | 1.85/2               | 3                  |             | BG        | 8" CLAY   | GRAY     |                     | DAMP  |              |           |
| 9            |              |  | 65%                  | 4                  |             |           | CLAY TRACE SAND-F   | YELLOW   |                     | MOIST   |              |           |
| 10           | LAB          | S-5                                    | 1.91/2               | 4                  | 05          | BG        | CLAY TRACE SAND-F   | YELLOW   |                     | MOIST   |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-SB30 SHEET 1 OF 2



Baker Environmental, Inc.

PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 28-E-3830

| 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           | LAB  | S-5                     | 71%        | 6<br>9             |             |           | CONTINUED   |        |                     |   |      |           |
| 12           |      | S-6                     | 1.67<br>2  | 2<br>3<br>4<br>3   |             |           | SAND-FINE AND SILT<br>WATER @ 12'                               | yellow |                     | WBT   |      |           |
| 13           |      |                         | 83%        |                    |             |           | END OF BORING 13'   |        |                     |   |      | 7.31      |
| 4            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 1            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 2            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 3            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 4            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |        |                     |   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-3830 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB31  
 COORDINATES: EAST: 2499986.56 NORTH: 331832.40  
 ELEVATION: SURFACE: 16.25 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |             |                |               |             |                                |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</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>3-25-94</u> | <u>9</u>      | <u>RAIN</u> | <u>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: BACKGROUND (Bg) HNU = 0.2 ppm

| 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            | LAB  | 00                      | 100%                 | -                  | 00          | BG        | SAND-FINE AND SILT AND ORGANICS                                 | Black  |                     | DAMP  |                |
| 2            |      | S-1                     | 1.16 / 2             | 2                  |             | BG        | 6" SAND-FINE AND CLAY   | Black  |                     | DAMP  |                |
| 3            |      |                         | 58%                  | 6                  |             |           | 8" CLAY LITTLE SAND-FINE  | ORANGE | STIFF               |   |                |
| 4            | LAB  | S-2                     | 2 / 2                | 7                  | 02          | BG        | CLAY AND SAND-FINE  | ORANGE | VERY STIFF          | DAMP  |                |
| 5            |      |                         | 100%                 | 12                 |             |           | 3" SAND-FINE LITTLE SILT  | Black  |                     | DAMP  |                |
| 6            |      | S-3                     | 1.08 / 2             | 15                 |             | BG        | SOME CEMENTED PEICES  |        |                     |   |                |
| 7            |      |                         | 54%                  | 15                 |             |           | WATER @ 5'  |        | DENSE               |   |                |
| 8            |      |                         |                      |                    |             |           | SAND-MEDIUM AND SILT CEMENTED PEICES                            | Black  |                     | MOIST DEBRIS IN CUTTINGS FROM AUGER                                   |                |
| 9            |      |                         |                      |                    |             |           | SPLIT - SPOON REFUSAL   |        |                     |   |                |
| 10           |      |                         |                      |                    |             |           | METAL DEBRIS IN CUTTINGS.                                       |        |                     |   |                |
|              |      |                         |                      |                    |             |           | END OF BORING 9'  |        |                     |   | 7.2            |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-SB31 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 28 HPBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-251 BORING NO.: 28-E-5832  
 COORDINATES: EAST: 2500067.26 NORTH: 331550.52  
 ELEVATION: SURFACE: 18.03 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |  |                |               |                     |                                |      |
|------------------|------------------|--------|----------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>5-26-94</u> | <u>15</u>     | <u>SUNNY + COOL</u> | <u>13</u>                      |      |
| LENGTH           | <u>2.0'</u>      |        | <u>S.O</u>     |  |                |               |                     |                                |      |
| TYPE             | <u>STD</u>       |        | <u>HSA</u>     |  |                |               |                     |                                |      |
| HAMMER WT.       | <u>140 #</u>     |        |                |  |                |               |                     |                                |      |
| FALL             | <u>30"</u>       |        |                |  |                |               |                     |                                |      |
| STICK UP         |                  |        |                |  |                |               |                     |                                |      |

REMARKS: BACKGROUND (BG) HNU 2.2 RPM

| DRILL RECORD |              |   |                            |                             |                |              | VISUAL DESCRIPTION  |   |                           |  |              |           |
|--------------|--------------|---|----------------------------|-----------------------------|----------------|--------------|---|---|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No<br>Samp. | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab.<br>Class. | PID<br>(ppm) | Classification<br>(Grain Size, Principal<br>Constituents, Etc.) | Color   | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            | RQD<br>(Ft. &<br>%)         |                |              | Pen.<br>Rate  | Classification<br>(Name, Grain Size, Principal<br>Constituents, Etc.) | Color                     | Hardness   |              |           |
| 1            | LAB          | 00  | 100%                       | -                           |                | BG           | SAND-FINE SOME SILT   | BLACK   |                           | DRY  |              |           |
| 2            |              | S-1   | 17/2                       | 1                           |                | BG           | SILT LITTLE SAND-FINE   | BLACK   | VERY LOOSE                | DRY  |              |           |
| 3            |              |   | 8%                         | 0                           |                |              |   |   |                           |  |              |           |
| 4            |              | S-2   | 25/2                       | 1                           |                | BG           | SAND-FINE AND SILT  | LT. BROWN   | VERY LOOSE                | DRY  |              |           |
| 5            |              |   | 13%                        | 1                           |                |              |   |   |                           |  |              |           |
| 6            | LAB          | S-3   | 2/2                        | 5                           |                | BG           | SAND-FINE TRACE SILT  | WHITE   | LOOSE                     | DRY  |              |           |
| 7            |              |   | 100%                       | 3                           |                |              |   |   |                           |  |              |           |
| 8            |              | S-4   | 1.08/2                     | 3                           |                | BG           | SAND-FINE TRACE SILT<br>TRACE CLAY                              | ORANGE  | LOOSE                     | DRY  |              |           |
| 9            |              |   | 54%                        | 3                           |                |              |   |   |                           |  |              |           |
| 10           |              | S-5   | 1/2                        | 4                           |                | BG           | CLAY TRACE SAND-FINE  | YELLOW  | MED STIFF                 | DRY.<br>MOTTLED  |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5832 SHEET 1 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RZIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62970-231 BORING NO.: 28-E-5832

| 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               |      |           |
|              |      | S-5                     | 50%            | 5<br>4             |             |           | CONTINUED   |        |                     |   |      |           |
| 11           |      |                         | $\frac{2}{2}$  | 3<br>4             |             |           | SAND-FINE AND SILT TRACIL CLAY.                                 | YELLOW | LOOSE               | MOIST   |      |           |
| 12           | LAB  | S-6                     | 100%           | 4<br>6             |             | BG.       |   |        |                     |   |      |           |
| 13           |      |                         | $\frac{12}{2}$ | 3<br>3<br>4        |             | BG        | WATER @ 13'<br>SAND-FINE AND SILT                               | ORANGE | LOOSE               | WET   |      |           |
| 14           |      | S-7                     |                |                    |             |           |   |        |                     |   |      |           |
| 15           |      |                         |                |                    |             |           | END OF BORING 15'   |        |                     |   |      | 3.0       |
| 6            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 7            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 8            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 1            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 2            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 3            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 4            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 5            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 6            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 7            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 8            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |                |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |                |                    |             |           |   |        |                     |   |      |           |

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 28 HPBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-5833  
 COORDINATES: EAST: 2500087.15 NORTH: 331665.34  
 ELEVATION: SURFACE: 19.34 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |             |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</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>3-25-94</u> | <u>15</u>     | <u>RAIN</u> | <u>13</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: BACKGROUND (BG) HNU = 0.0 PPM

| 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   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color  | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |      |           |
| 1            | LAB  | 00        | 100%                 |                    | ∞           | BG        | SILT TRACE SAND-FINE ORGANICS.                                  | BLACK  |                     | DRY   |      |           |
| 2            |      | S-1       | $\frac{.17}{2}$      | 4                  |             | BG        | TRGE ROOT. SAND-FINE AND SILT                                   | BROWN  | LOOSE               | DAMP  |      |           |
| 3            |      |           | 8%                   | 3                  |             |           |   |        |                     |   |      |           |
| 4            |      | S-2       | $\frac{.58}{2}$      | 5                  |             | BG        | SILT SOME SAND-FINE   | YELLOW | LOOSE               | DAMP  |      |           |
| 5            |      |           | 29%                  | 3                  |             |           |   |        |                     |   |      |           |
| 6            | LAB  | S-3       | $\frac{1.25}{2}$     | 6                  |             |           | SAND-FINE   | WHITE  | MED DENSE           | DAMP  |      |           |
| 7            |      |           | 63%                  | 6                  | 03          | 2         |   |        |                     |   |      |           |
| 8            |      | S-4       |                      | 8                  |             | .1        | SAND-FINE   | WHITE  | MED DENSE           | DAMP  |      |           |
| 9            |      |           |                      | 9                  |             |           |   |        |                     |   |      |           |
| 10           |      | S-5       |                      | 6                  |             | BG        | SAND-F AND SILT TRACE CLAY.                                     | ORANGE | SOFT                | MOIST   |      |           |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5833 SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: SYE 28 HMBD RIIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 28-E-SB33

| 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           |      | 5-5                     |            | 4<br>5             |             | BG        | 6" CLAY TRACE SAND-FINE   | GRAY   | SOFT                | DAMP.   |      |           |
| 12           | LAB  | 5-6                     | 2/2        | 3<br>4<br>5        | OO          | BG        | CLAY  | GRAY   | STIFF               | MOIST   |      |           |
| 13           |      |                         | 100%       | 6                  |             |           | 4" SAND-FINE WATER @ 13"  |        |                     |   |      |           |
| 14           |      | 5-7                     | 2/2        | 1<br>3<br>4        |             | BG        | 5" LITTLE CLAY TRACE SAND-FINE                                  | YELLOW | MED STIFF           | WET.  |      |           |
| 15           |      |                         | 100%       | 4                  |             |           | END OF BORING 15'   |        |                     |   |      | 4.3       |
| 6            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 1            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 2            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 3            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 4            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |        |                     |   |      |           |

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 28-E-SB33

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-281 BORING NO.: 28-E-SB34  
 COORDINATES: EAST: 2500092.17 NORTH: 331746.52  
 ELEVATION: SURFACE: 20.58 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                  |  |                |               |             |                                |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|-------------|--------------------------------|------|
| RIG: <u>B-57</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>3-28-94</u> | <u>17</u>     | <u>RAIN</u> | <u>13</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: BACKGROUND (BG) HND = .2 RPM

| 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 | PID (ppm)   | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color               | Hardness  |                |
| 1            | LAB  | S-0       |                      |                    | OO            | BG        | SILT LITTLE SAND-FINE                                     | BLACK   |                     | DRY   |                |
| 2            |      | S-1       | 1.6/2                | 5                  |               | BG        | SAND-FINE LITTLE SILT                                     | WHITE   | MED DENSE           | DRY   |                |
| 3            |      |           | 79%                  | 12                 |               |           |   |   |                     |   |                |
| 4            |      | S-2       | 1.4/2                | 7                  |               | BG        | SAND-FINE LITTLE SILT                                     | TAN   | MED DENSE           | DRY   |                |
| 5            |      |           | 71%                  | 9                  |               |           |   |   |                     |   |                |
| 6            | LAB  | S-3       | 1.5/2                | 7                  | OS            | BG        | SAND-FINE TRACE SILT                                      | WHITE   | MED DENSE           | DRY   |                |
| 7            |      |           | 75%                  | 8                  |               |           |   |   |                     |   |                |
| 8            |      | S-4       | 1.08/2               | 7                  |               | BG        | SAND-FINE SOME SILT                                       | 3" WHITE<br>10" ORANGE  | MED DENSE           | DAMP  |                |
| 9            |      |           | 54%                  | 7                  |               |           |   |   |                     |   |                |
| 10           |      | S-5       | 1.14/2               | 2                  |               | BG        | CLAY  | GRAY  | MED ST. PF          | DAMP<br>ORANGE MOTTLED  |                |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-SB34 SHEET 1 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-SB34

| DRILL RECORD |      |                         |                  |                    |             |           | VISUAL DESCRIPTION  |        |                     |   |      |           |
|--------------|------|-------------------------|------------------|--------------------|-------------|-----------|---|--------|---------------------|---|------|-----------|
| DEPTH        | SOIL | Sample ID               | Samp. Rec.       | SPT Blows Per 0.5' | Lab. Class. |           | Classification (Grain Size, Principal Constituents, Etc.)       | Color  | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL | ELEVATION |
|              | ROCK | Type No. (N = No Samp.) | (Ft. & %)        | RQD (Ft. & %)      | Pen. Rate   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color  | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               | ROCK |           |
| 11           |      | S-5                     | 58%              | 3<br>4             |             | B6        | CONTINUED   |        |                     |   |      |           |
| 12           | LAB  | S-6                     | $\frac{1.5}{2}$  | 3<br>3<br>5        |             | 00        | SAND-FINE SOME SILT<br>TRACE CLAY                               | GRAY   | MED STIFF           | MOIST   |      |           |
| 13           |      |                         | 75%              | 7                  |             |           | WATER @ 13"   |        |                     |   |      |           |
| 14           |      |                         | $\frac{1.25}{2}$ | 1<br>1             |             |           | CLAY AND SAND-FINE<br>LITTLE SILT.                              | GRAY   | VERY SOFT           | WET   |      |           |
| 15           |      | S-7                     | 63%              | 2                  |             |           |   |        |                     |   |      |           |
| 16           |      |                         | $\frac{1.08}{2}$ | 2<br>2             |             |           | SAND-FINE SOME SILT<br>TRACE CLAY                               | ORANGE | MED STIFF           | WET   |      |           |
| 17           |      | S-8                     | 54%              | 3<br>4             |             |           |   |        |                     |   |      | 3.5       |
| 17           |      |                         |                  |                    |             |           | END OF BORING 17"   |        |                     |   |      |           |
| 8            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 1            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 2            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 3            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 4            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 5            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 6            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 7            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 8            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 9            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |
| 0            |      |                         |                  |                    |             |           |   |        |                     |   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-SB34 SHEET 2 OF 2



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-5835  
 COORDINATES: EAST: 2500096.56 NORTH: 331809.01  
 ELEVATION: SURFACE: 18.62 TOP OF PVC CASING: \_\_\_\_\_

|                  |                         |        |                  |  |                |               |                     |                                |      |
|------------------|-------------------------|--------|------------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-27-94</u> | <u>13</u>     | <u>SUNNY + WARM</u> | <u>11</u>                      |      |
| LENGTH           | <u>2.0'</u>             |        | <u>5.0'</u>      |  |                |               |                     |                                |      |
| TYPE             | <u>STD</u>              |        | <u>HSA</u>       |  |                |               |                     |                                |      |
| HAMMER WT.       | <u>140<sup>##</sup></u> |        |                  |  |                |               |                     |                                |      |
| FALL             | <u>30"</u>              |        |                  |  |                |               |                     |                                |      |
| STICK UP         |                         |        |                  |  |                |               |                     |                                |      |

REMARKS: BACKGROUND (BG) HNU = .3 RPM

| DRILL RECORD |              |   |                            |                          |             |              | VISUAL DESCRIPTION  |             |                           |  |              |           |
|--------------|--------------|---|----------------------------|--------------------------|-------------|--------------|---|-------------|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No Samp.) | Samp. Rec.<br>(Ft. &<br>%) | SPT Blows<br>Per<br>0.5' | Lab. Class. | PID<br>(ppm) | Classification<br>(Grain Size, Principal<br>Constituents, Etc.)       | Color       | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            | RQD<br>(FL<br>& %)       | Pen. Rate   |              | Classification<br>(Name, Grain Size, Principal<br>Constituents, Etc.) | Color       | Hardness                  | Weathering, Bedding,<br>Fracturing, and Other<br>Observations                  |              |           |
| 1            | LAB          | 00  | 100%                       |                          | ∞           | BG           | SAND-FINE TRACE SILT  | BLACK       |                           | DRY  |              |           |
| 2            |              | S-1   | 1/2                        | 4                        |             | BG           | SAND-FINE SOME SILT<br>TRACE CLAY, ORGANICS.                          | BROWN       | MED<br>DENSE              | DRY  |              |           |
| 3            |              |   | 50%                        | 22                       |             |              | SILT SOME SAND-FINE   | BLACK       | MED<br>DENSE              | DAMP   |              |           |
| 4            |              | S-2   | 1.16/2                     | 6                        |             | .4           |   |             |                           |  |              |           |
| 5            |              |   | 58%                        | 12                       |             |              |   |             |                           |  |              |           |
| 6            |              | S-3   | .83/2                      | 6                        |             | BG           | SAND-FINE TRACE SILT<br>TRACE CLAY                                    | GRAY        | MED<br>DENSE              | MOIST  |              |           |
| 7            |              |   | 42%                        | 5                        |             |              |   |             |                           |  |              |           |
| 8            |              | S-4   | .58/2                      | 3                        |             | BG           | SAND-FINE SOME CLAY   | LT<br>BROWN | MED<br>STIFF              | MOIST  |              |           |
| 9            |              |   | 29%                        | 3                        |             |              |   |             |                           |  |              |           |
| 10           | LAB          | S-5   | 1.5/2                      | 5                        |             | BG           | SAND-FINE LITTLE SILT   | GRAY        | LOOSE                     | MOIST<br>MOTTLED   |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5835 SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: Site 28 HPBD REIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 28-E-5835

| 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   |   |       |                     |   |      |           |
| 11           |      | S-5                     | 75%        | 4<br>5             |             | CONTINUED   |       |                     |   |      |           |
| 12           |      | S-6                     | 6 1/2<br>2 | 5<br>5<br>6<br>5   | BG          | WATER @ 11'<br>SAND-FINE LITTLE SILT                      | BROWN | MD<br>DENSE         | WET   |      |           |
| 13           |      |                         | 58%        |                    |             | END OF BORING 12'   |       |                     |   |      | 5.6       |
| 4            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 5            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 6            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 7            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 8            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 9            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 0            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 1            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 2            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 3            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 4            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 5            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 6            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 7            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 8            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 9            |      |                         |            |                    |             |   |       |                     |   |      |           |
| 0            |      |                         |            |                    |             |   |       |                     |   |      |           |

DRILLING CO.: EMTC

DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA

BORING NO.: 28-E-5835 SHEET 2 OF 2

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-E-5836  
 COORDINATES: EAST: 2500174.34 NORTH: 331778.07  
 ELEVATION: SURFACE: 20.27 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |  |                |               |                       |                                |      |
|------------------|------------------|--------|----------------|--|----------------|---------------|-----------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-26-94</u> | <u>11</u>     | <u>SUNNY AND COOL</u> | <u>9</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: BACKGROUND (BG) HNU = .2

| DRILL RECORD |              |                                      |                      |                    |             |           | VISUAL DESCRIPTION  |        |                     |   |              |           |
|--------------|--------------|--------------------------------------|----------------------|--------------------|-------------|-----------|---|--------|---------------------|---|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>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<br>ROCK | ELEVATION |
|              |              |                                      |                      | RQD (Ft. & %)      | Pen. Rate   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color  | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |              |           |
| 1            | LAB          | 00                                   | 100%                 | —                  | ∞           | BG        | SILT AND SAND-FINE  | BROWN  |                     | DAMP  |              |           |
| 2            |              | S-1                                  | $\frac{.67}{2}$      | 4                  |             | BG        | SILT AND SAND-FINE  | BLACK  | VERY LOOSE          | DAMP  |              |           |
| 3            |              |                                      | 33%                  | 1                  |             |           |   |        |                     |   |              |           |
| 4            |              | S-2                                  |                      | 1                  |             |           | SPLIT-SPOON REFUSAL AUGERED PAST OBSTRUCTION                    |        |                     |   |              |           |
| 5            |              |                                      |                      |                    |             |           |   |        |                     |   |              |           |
| 6            |              | S-3                                  | $\frac{1.16}{2}$     | 11                 |             | .3        | SAND-FINE AND SILT  | TAN    | MED DENSE           | DAMP  |              |           |
| 7            |              |                                      | 58%                  | 14                 |             |           |   |        |                     |   |              |           |
| 8            | LAB          | S-4                                  | $\frac{1.67}{2}$     | 10                 |             | 04 BG     | SAND-FINE AND SILT  | ORANGE | MED STIFF           | DAMP  |              |           |
| 9            |              |                                      | 83%                  | 3                  |             |           |   |        |                     |   |              |           |
| 10           |              | S-5                                  |                      | 4                  |             |           | WATER @ 9' NO RECOVERY LOST SHOES                               |        |                     |   |              |           |
|              |              |                                      |                      | 5                  |             |           | END OF BORING 11'   |        |                     |   |              | 9.2       |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-E-5836 SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-BB-SB37

COORDINATES: EAST: 2500351.89

NORTH: 3316116.15

ELEVATION: SURFACE: 22.99

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

|                         |             |        |         |             |         |               |                    |                  |      |
|-------------------------|-------------|--------|---------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: <u>MOBILE B-61</u> |             |        |         |             |         |               |                    |                  |      |
|                         | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)            | 1-3/8"ID    |        | 3/4" 10 |             | 3-28-94 | 0.0-9.0       | PARTLY SUNNY ± 70° | 8.0              |      |
| LENGTH                  | 2.0'        |        | 5.0'    |             |         |               |                    |                  |      |
| TYPE                    | STD.        |        | HSA     |             |         |               |                    |                  |      |
| HAMMER WT.              | 140#        |        |         |             |         |               |                    |                  |      |
| FALL                    | 30"         |        |         |             |         |               |                    |                  |      |
| STICK UP                |             |        |         |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 11.0' and grouted to surface, HNu background = 0.2 PPM

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube      W = Wash
- R = Air Rotary        C = Core
- D = Denison            P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           |                     | -                  | -          | 00           | 0.3       | SAND, fine grained, little silt, light brown, damp  |           |
| 2           | S-1                 | 1.3 / 2.0          | 2 / 12     |              | BG        | SILT, little fine sand, grading to SAND, fine grained, little silt, trace clay, light brown, medium dense, damp |           |
| 3           |                     | 65%                | 9          |              |           |   |           |
| 4           | S-2                 | 2.0 / 2.0          | 12 / 12    |              | BG        | SAND, fine grained, little silt, trace clay, brown, medium dense, damp  |           |
| 5           |                     | 100%               | 12         |              |           |   |           |
| 6           | S-3                 | 1.5 / 2.0          | 23 / 20    | 03           | BG        | SILT, little fine sand, trace clay, grading to SAND, fine grained, trace silt, brown to white, dense, damp      |           |
| 7           |                     | 75%                | 16         |              |           |   |           |
| 8           | S-4                 | 1.5 / 2.0          | 4 / 7      |              | BG        | SAND, fine grained, trace silt, white, medium dense, moist to wet (wet below 8.0')                              |           |
| 9           |                     | 75%                | 12         |              |           |   |           |
|             |                     |                    |            |              |           | END OF BORING<br>TOTAL DEPTH = 9.0'   | 13.99     |

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 28-BB-SB37

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-BB-SB 38

COORDINATES: EAST: 2500395.00

NORTH: 331710.03

ELEVATION: SURFACE: 24.54

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

|                  |             |        |         |             |         |               |                  |                  |      |
|------------------|-------------|--------|---------|-------------|---------|---------------|------------------|------------------|------|
| RIG: MOBILE B-61 |             |        |         |             |         |               |                  |                  |      |
|                  | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER          | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | 1-3/8"ID    |        | 3/4" ID |             | 3-28-94 | 0.0-11.0      | PARTLY SUNNY 70° | 9.0              |      |
| LENGTH           | 2.0'        |        | 5.0'    |             |         |               |                  |                  |      |
| TYPE             | STD.        |        | HSA     |             |         |               |                  |                  |      |
| HAMMER WT.       | 140#        |        |         |             |         |               |                  |                  |      |
| FALL             | 30"         |        |         |             |         |               |                  |                  |      |
| STICK UP         |             |        |         |             |         |               |                  |                  |      |

REMARKS: Boring sampled to 11.0' and grouted to surface. HNU background = 0.2 ppm

|  |   |
|--|---|
| <p><b>SAMPLE TYPE</b></p> <p>S = Split Spoon    A = Auger<br/>         T = Shelby Tube    W = Wash<br/>         R = Air Rotary    C = Core<br/>         D = Denison    P = Piston<br/>         N = No Sample</p> | <p><b>DEFINITIONS</b></p> <p>SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br/>         RQD = Rock Quality Designation (%)<br/>         PID = Photoionization Detector</p> |
|--|---|

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | —                  | —          | 00           | BG        | SAND, fine grained, trace silt, brown, damp  |           |
| 2           | S-1                 | 1.1<br>2.0         | 3<br>3     |              | BG        | SILT, little fine sand, trace clay, yellowish brown, loose, damp   |           |
| 3           |                     | 55%                | 4          |              |           |  |           |
| 4           | S-2                 | 1.6<br>2.0         | 4<br>4     |              | BG        | SILT, little to some fine sand, trace clay, yellowish brown, medium dense, damp                                  |           |
| 5           |                     | 80%                | 8          |              |           |  |           |
| 6           | S-3                 | 1.5<br>2.0         | 4<br>4     |              | BG        | SAND, fine grained, little to some silt, trace to little clay, orangish brown to light brown, medium dense, damp |           |
| 7           |                     | 75%                | 8          |              |           |  |           |
| 8           | S-4                 | 1.4<br>2.0         | 4<br>7     | 0A           | BG        | SAND, fine grained, trace to little silt, trace clay, light brown to brown, medium dense, moist                  |           |
| 9           |                     | 70%                | 16         |              |           |  |           |
|             | S-5                 | 1.4<br>2.0         | 4<br>8     |              | BG        | SILTY SAND, fine grained, trace clay, tan, medium dense, wet   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: MARTIN G. TAUSE

DRILLER: J. MARSH

BORING NO.: 28-BB-SB 38

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: ZB-BB-SB38

| 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            |                      |            |              |           | PID = Photoionization Detector                             |           |
| D = Denison     | P = Piston          |                      |            |              |           |  |           |
| N = No Sample   |                     |                      |            |              |           |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
| 11              | 11.0                |                      | 8<br>12    |              | BG        | Continued from Sheet 1                                     | -13.54    |
| 12              |                     |                      |            |              |           | END OF BORING<br>TOTAL DEPTH = 11.0'                       |           |
| 13              |                     |                      |            |              |           |  |           |
| 14              |                     |                      |            |              |           |  |           |
| 15              |                     |                      |            |              |           |  |           |
| 16              |                     |                      |            |              |           |  |           |
| 18              |                     |                      |            |              |           |  |           |
| 19              |                     |                      |            |              |           |  |           |
| 20              |                     |                      |            |              |           |  |           |
| 21              |                     |                      |            |              |           |  |           |
| 22              |                     |                      |            |              |           |  |           |
| 23              |                     |                      |            |              |           |  |           |
| 24              |                     |                      |            |              |           |  |           |
| 25              |                     |                      |            |              |           |  |           |
| 26              |                     |                      |            |              |           |  |           |
| 27              |                     |                      |            |              |           |  |           |
| 28              |                     |                      |            |              |           |  |           |
| 29              |                     |                      |            |              |           |  |           |
|                 |                     |                      |            |              |           | Match to Sheet 3   |           |

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: ZB-BB-SB38

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-5839

COORDINATES: EAST: 2498735.82

NORTH: 331878.76

ELEVATION: SURFACE: 17.22

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

|              |             |        |         |             |         |               |                            |                  |      |
|--------------|-------------|--------|---------|-------------|---------|---------------|----------------------------|------------------|------|
| RIG: # 225   |             |        |         |             |         |               |                            |                  |      |
|              | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                    | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3/4" ID |             | 3-24-94 | 0-18'         | Partly cloudy, mild (50's) | 16.5             |      |
| LENGTH       | 2.0'        |        | 5.0'    |             |         |               |                            |                  |      |
| TYPE         | STD.        |        | HSA     |             |         |               |                            |                  |      |
| HAMMER WT.   | 140#        |        |         |             |         |               |                            |                  |      |
| FALL         | 30"         |        |         |             |         |               |                            |                  |      |
| STICK UP     |             |        |         |             |         |               |                            |                  |      |

REMARKS: Boring sampled to 18.0' and grouted to surface. Hwu background is .1 ppm

**SAMPLE TYPE**

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | S-1                 | .6                 | 6          |              | BG        | <del>Rooted Zone (Dark Brown)</del><br>SILTY SAND, fine grained. Brown, medium dense, damp   |           |
|             |                     | 2.0                | 8          |              |           |  |           |
| 2           |                     | 30%                | 9          |              |           | SAND, fine grained w/ trace silt and TRASH (plastic, glass shards). Brown, loose, damp.  |           |
| 3           | S-2                 | .2                 | 4          |              |           |  |           |
|             |                     | 4                  |            |              |           |  |           |
| 4           |                     | 10%                | 6          |              |           | SILTY SAND, fine grained w/ FILL material (burnt soil, charcoal flecks, brick, glass shards, possible food stuffs). Brown to yellow to white to black, very dense, damp. |           |
| 5           | S-3                 | .7                 | 17         |              |           |  |           |
|             |                     | 30                 |            |              |           |  |           |
| 6           |                     | 35%                | 20         |              |           |  |           |
| 7           | S-4                 | .9                 | 7          |              |           |  |           |
|             |                     | 8                  |            |              |           |  |           |
| 8           |                     | 45%                | 9          |              |           |  |           |
| 9           | S-5                 | .6                 | 5          |              |           |  |           |
|             |                     | 8                  |            |              |           |  |           |
| 10          |                     | 30%                | 7          |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: J. Marsh

BORING NO.: 28-W-5839

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB39

| 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            |                      |                   |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                      |                   |              |           |   |           |
| N = No Sample   |                     |                      |                   |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD        | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11              | S-6                 | .7                   | 6<br>6<br>9       |              | BG        | Continued from Sheet 1 FILL material (charcoal flecks, brick, trace of glass) w/ SILTY SAND, fine grained and trace gravel. Reddish brown to black, medium dense, moist |           |
| 12              |                     | 35%                  | 11                |              |           |   |           |
| 13              | S-7                 | NR                   | 3<br>1<br>12"     |              | -         | NO RECOVERY   |           |
| 14              |                     |                      |                   |              |           |   |           |
| 15              | S-8                 | 1.3                  | 3<br>5<br>7       |              | BG        | FILL material (burnt soil, trace wood and glass shards, charcoal flecks & trace organics) and SILTY SAND, fine grained. Dk. brown to black, medium dense, moist         |           |
| 16              |                     | 65%                  | 3                 |              |           |   |           |
| 17              | S-9                 | .3                   | 15<br>9<br>7<br>3 |              | BG        | SILTY SAND, fine grained w/ trace CLAY and FILL material (glass shards). Dark brown, medium dense, wet. Oily sheen observed.  | -7.8      |
| 18              |                     | 15%                  |                   |              |           | End of Boring<br>TD 18.0'   |           |
| 19              |                     |                      |                   |              |           |   |           |
| 20              |                     |                      |                   |              |           |   |           |
| 21              |                     |                      |                   |              |           |   |           |
| 22              |                     |                      |                   |              |           |   |           |
| 23              |                     |                      |                   |              |           |   |           |
| 24              |                     |                      |                   |              |           |   |           |
| 25              |                     |                      |                   |              |           |   |           |
| 26              |                     |                      |                   |              |           |   |           |
| 27              |                     |                      |                   |              |           |   |           |
| 28              |                     |                      |                   |              |           |   |           |
| 29              |                     |                      |                   |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: J. Marsh

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB39

SHEET 2 OF 2



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 28 HPBD RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-SB-40  
 COORDINATES: EAST: 249980.06 NORTH: 331665.53  
 ELEVATION: SURFACE: 16.86 TOP OF PVC CASING: \_\_\_\_\_

|                  |                |        |                |             |                |               |                |                                |      |
|------------------|----------------|--------|----------------|-------------|----------------|---------------|----------------|--------------------------------|------|
| RIG: <u>B-57</u> |                |        |                |             | DATE           | PROGRESS (FT) | WEATHER        | TOP OF CASING WATER DEPTH (FT) | TIME |
|                  | SPLIT SPOON    | CASING | AUGERS         | CORE BARREL |                |               |                |                                |      |
| SIZE (DIAM.)     | <u>3/8" ID</u> |        | <u>3/4" ID</u> |             | <u>3-25-94</u> | <u>16</u>     | <u>DRIZZLE</u> | <u>14</u>                      |      |
| LENGTH           | <u>2.0'</u>    |        | <u>5.0'</u>    |             |                |               |                |                                |      |
| TYPE             | <u>STD</u>     |        | <u>HSA</u>     |             |                |               |                |                                |      |
| HAMMER WT.       | <u>170 lb</u>  |        |                |             |                |               |                |                                |      |
| FALL             | <u>30"</u>     |        |                |             |                |               |                |                                |      |
| STICK UP         |                |        |                |             |                |               |                |                                |      |

REMARKS: GEOTECH Boring only. BACKGROUND (BG) HNU = 0.0 MM

| DRILL RECORD |              |   |                            |                             |                |              | VISUAL DESCRIPTION  |   |                           |  |              |           |
|--------------|--------------|---|----------------------------|-----------------------------|----------------|--------------|---|---|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No Samp.) | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab.<br>Class. | PID<br>(ppm) | Classification<br>(Grain Size, Principal<br>Constituents, Etc.) | Color   | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |   |                            | RQD<br>(Ft<br>& %)          |                |              | Pen.<br>Rate  | Classification<br>(Name, Grain Size, Principal<br>Constituents, Etc.) | Color                     | Hardness   |              |           |
| 1            |              | S-1   | <u>1.41/2</u>              | <u>3</u>                    |                |              | <u>3" Top Soil</u>  | <u>Black</u>  | <u>MR</u>                 | <u>DAMP</u>  |              |           |
| 2            |              |   | <u>71%</u>                 | <u>3</u>                    |                |              | <u>SAND-FINE AND SILT</u>                                       | <u>LT. BROWN</u>  | <u>DRUSE</u>              |  |              |           |
| 3            |              | S-2   | <u>1.60/2</u>              | <u>2</u>                    |                |              | <u>SAND-FINE AND SILT</u>                                       | <u>Black</u>  | <u>LOOSE</u>              | <u>DAMP</u>  |              |           |
| 4            |              |   | <u>79%</u>                 | <u>2</u>                    |                |              |   |   |                           |  |              |           |
| 5            |              | S-3   | <u>1.62/2</u>              | <u>2</u>                    |                |              | <u>12" SAND-FINE AND SILT</u>                                   | <u>Black</u>  | <u>MED</u>                | <u>MOIST</u>   |              |           |
| 6            |              |   | <u>83%</u>                 | <u>7</u>                    |                |              | <u>8" SAND-FINE LITHE</u>                                       |   | <u>STIFF</u>              |  |              |           |
| 7            |              | S-4   | <u>1.65/2</u>              | <u>2</u>                    |                |              | <u>10" SAND-FINE AND SILT</u>                                   | <u>Black</u>  | <u>STIFF</u>              | <u>WET</u>   |              |           |
| 8            |              |   | <u>75%</u>                 | <u>9</u>                    |                |              | <u>8" CLAY TRACE SAND-FINE</u>                                  | <u>yellow</u>   |                           | <u>DRY</u>   |              |           |
| 9            |              | S-5   | <u>1.60/2</u>              | <u>3</u>                    |                |              | <u>SAND-FINE LYTIC CLAY</u>                                     | <u>yellow</u>   | <u>STIFF</u>              | <u>DRY</u>   |              |           |
| 10           |              |   | <u>79%</u>                 | <u>6</u>                    |                |              |   |   |                           | <u>MOTTLED</u>   |              |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-SB-40 SHEET 1 OF 2

Baker Environmental, Inc.

PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 28-SB-40

| DRILL RECORD |      |                         |            |                    |             |           | VISUAL DESCRIPTION  |                  |                     |   |      |           |
|--------------|------|-------------------------|------------|--------------------|-------------|-----------|---|------------------|---------------------|---|------|-----------|
| DEPTH        | SOIL | Sample ID               | Samp. Rec. | SPT Blows Per 0.5' | Lab. Class. |           | Classification (Grain Size, Principal Constituents, Etc.)       | Color            | Consist. or Density | Moisture Content, Organic Content, Plasticity, and Other Observations | SOIL | ELEVATION |
|              | ROCK | Type No. (N = No Samp.) | (Ft. & %)  | RQD (Ft. & %)      | Pen. Rate   | PID (ppm) | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color            | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               | ROCK |           |
| 11           |      | S-6                     | 1.67<br>2  | 2<br>3<br>5        |             | BG        | SAND-FINE SOME SILT<br>TRACE CLAY.                              | TAN              | STIFF               | MOIST   |      |           |
| 12           |      |                         | 83%        | 9                  |             |           |   |                  |                     |   |      |           |
| 13           |      | S-7                     | 2.00       | 4<br>4<br>5        |             | BG        | SAND-FINE AND SILT  | YELLOW           | LOOSE               | MOIST<br>MOTTLED GRAY   |      |           |
| 14           |      |                         | 100%       | 8                  |             |           | WATER @ 14'   |                  |                     |   |      |           |
| 15           |      | S-8                     | 2.00       | 3<br>5<br>6        |             | BG        | 12" CLAY SOME SAND-FINE<br>12" CLAY TRACE SAND-FINE             | YELLOW<br>ORANGE | MO<br>DENSE         | WET<br>MOTTLED GRAY   |      |           |
| 16           |      |                         | 100%       | 9                  |             |           | END OF BORING 16'   |                  |                     |   |      | 80        |
| 17           |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 1            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 2            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 3            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 4            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |
| 0            |      |                         |            |                    |             |           |   |                  |                     |   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-SB-40 SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB41

COORDINATES: EAST: 2498727.55

NORTH: 331877.27

ELEVATION: SURFACE: 17.37

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

|              |             |        |           |             |         |               |                           |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|---------------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                           |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                   | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-27-94 | 0-18'         | clear, warm, windy (70's) | 16.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                           |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                           |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                           |                  |      |
| FALL         | 30"         |        |           |             |         |               |                           |                  |      |
| STICK UP     |             |        |           |             |         |               |                           |                  |      |

REMARKS: Boring sampled to 18.0' and grouted to surface. MSA background is .2 ppm

**SAMPLE TYPE**

- S = Split Spoon      A = Auger
- T = Shelby Tube    W = Wash
- R = Air Rotary      C = Core
- D = Denison        P = Piston
- N = No Sample

**DEFINITIONS**

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | S-1                 | .3                 | 11         |              | BG        | SILTY SAND, fine grained w/ little FILL material (brick and charcoal flecks). Reddish brown to dark brown to gray, loose, damp                              |           |
| 2           |                     | 2.0                | 7          |              |           |   |           |
| 3           | S-2                 | .3                 | 3          |              | BG        |   |           |
| 4           |                     | 4.0                | 2          |              |           |   |           |
| 5           | S-3                 | .4                 | 3          |              | BG        | SAND, fine grained w/ trace silt. Dark brown to gray to reddish brown to dark gray, very loose to loose to dense, damp. Trace of brick 6' to 8' (bgs) only. |           |
| 6           |                     | 6.0                | 2          |              |           |   |           |
| 7           | S-4                 | .6                 | 7          |              | BG        |   |           |
| 8           |                     | 8.0                | 11         |              |           |   |           |
| 9           | S-5                 | .2                 | 12         |              | BG        |   |           |
| 10.0        |                     | 10.0               | 17         |              |           |   |           |
|             |                     | 10%                | 18         |              |           |   |           |
|             |                     |                    | 22         |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-W-SB41

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB41

| 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            |                      |                | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |                |  |           |   |           |
| N = No Sample   |                     |                      |                |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11              | S-6                 | .4<br>2.0            | 8<br>12<br>17  |  | BG        | Continued from Sheet 1<br><br>SAND, fine grained w/ trace silt<br><br>Dark brown, loose to very loose, damp to moist. |           |
| 12              |                     | 20%                  | 3              |  |           |   |           |
| 13              | S-7                 | .3<br>2.0            | 3<br>2         |  | BG        |   |           |
| 14              |                     | 15%                  | 1/12"          |  |           |   |           |
| 15              | S-8                 | .4<br>2.0            | 50<br>5"       |  | BG        |   |           |
| 16              |                     | 20%                  |                |  |           |   |           |
| 17              | S-9                 | .3<br>2.0            | 29<br>17<br>18 |  | BG        | SILTY SAND, fine grained w/ trace clay. Dark brown, dense wet. Oily sheen can be seen on water laying in spoon.       | -63       |
| 18              |                     | 15%                  | 8              |  |           | End of Boring<br>TD 18.0'   |           |
| 19              |                     |                      |                |  |           |   |           |
| 20              |                     |                      |                |  |           | * Compositated samples collected from 0 to 18.0' (bgs)  |           |
| 21              |                     |                      |                |  |           |   |           |
| 22              |                     |                      |                |  |           |   |           |
| 23              |                     |                      |                |  |           |   |           |
| 24              |                     |                      |                |  |           |   |           |
| 25              |                     |                      |                |  |           |   |           |
| 26              |                     |                      |                |  |           |   |           |
| 27              |                     |                      |                |  |           |   |           |
| 28              |                     |                      |                |  |           |   |           |
| 29              |                     |                      |                |  |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB41

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-E-SB42

COORDINATES: EAST: 2499998.41

NORTH: 331765.79

ELEVATION: SURFACE: 18.33

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

|                         |             |        |         |             |         |               |                    |                  |      |
|-------------------------|-------------|--------|---------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: <u>MOBILE B-61</u> |             |        |         |             |         |               |                    |                  |      |
|                         | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)            | 1-3/8" ID   |        | 3/4" ID |             | 3-28-94 | 0.0-12.0      | PARTLY SUNNY ± 70° | 11.0'            |      |
| LENGTH                  | 2.0'        |        | 5.0     |             |         |               |                    |                  |      |
| TYPE                    | STD.        |        | HSA     |             |         |               |                    |                  |      |
| HAMMER WT.              | 140#        |        |         |             |         |               |                    |                  |      |
| FALL                    | 30"         |        |         |             |         |               |                    |                  |      |
| STICK UP                |             |        |         |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 12.0' and grouted to the surface. HNu BG = 0.2ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | S-1                 | 1.4 / 2.0          | 6 / 6      | *            | 0.4       | 0.0 TO 1.8<br>SAND, fine grained, little silt, trace clay, trace organics, brown, medium dense, damp<br>1.8 TO 2.0<br>CLAY, little sand, trace silt, brown, damp |           |
| 2           |                     | 70%                | 7          |              |           |  |           |
| 3           | S-2                 | 1.5 / 2.0          | 6 / 6      | *            | BG        | SAND, fine grained trace silt, light brown, medium dense, damp<br>BLACK ORGANIC LAYER PRESENT FROM 3.0' TO 3.1'  |           |
| 4           |                     | 75%                | 12         |              |           |  |           |
| 5           | S-3                 | 1.0 / 2.0          | 7 / 8      | *            | BG        | SAND, fine grained, trace silt, light brown, medium dense, damp  |           |
| 6           |                     | 50%                | 10 / 12    |              |           |  |           |
| 7           | S-4                 | 2.0 / 2.0          | 2 / 3      | *            | 0.3       | SILTY CLAY, light brown, medium stiff, moist   |           |
| 8           |                     | 100%               | 2 / 4      |              |           |  |           |
| 9           | S-5                 | 2.0 / 2.0          | 2 / 2      | *            | BG        | 8.5'<br>SILT, little sand, little clay, light brown, loose, moist  |           |
| 10          |                     | 100%               | 3 / 3      |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 28-E-SB42

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-E-SB42

| 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            |                      |            |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                      |            |              |           |   |           |
| N = No Sample   |                     |                      |            |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11              | S-6                 | 2.0<br>2.0           | 2<br>1     | *            | BG        | Continued from Sheet 1<br>SILT, little sand, little clay,<br>light brown, very loose, moist<br>to wet   | 6.33      |
| 12              | 12.0                | 100%                 | 2          |              |           | END OF BORING<br>TOTAL DEPTH = 12.0'  |           |
| 13              |                     |                      |            |              |           |   |           |
| 14              |                     |                      |            |              |           |   |           |
| 15              |                     |                      |            |              |           | * SAMPLE 28-E-SB42<br>COMPOSITED FROM<br>SPLIT SPOONS FOR<br>RCRA CHARACTERIZATION<br>AND TCLP ANALYSIS |           |
| 16              |                     |                      |            |              |           |   |           |
| 18              |                     |                      |            |              |           | * SAMPLE 28-E-SB42<br>COMPOSITED FROM<br>AUGER CUTTINGS FOR<br>GEOTECHNICAL<br>ANALYSIS                 |           |
| 19              |                     |                      |            |              |           |   |           |
| 20              |                     |                      |            |              |           |   |           |
| 21              |                     |                      |            |              |           |   |           |
| 22              |                     |                      |            |              |           |   |           |
| 23              |                     |                      |            |              |           |   |           |
| 24              |                     |                      |            |              |           |   |           |
| 25              |                     |                      |            |              |           |   |           |
| 26              |                     |                      |            |              |           |   |           |
| 27              |                     |                      |            |              |           |   |           |
| 28              |                     |                      |            |              |           |   |           |
| 29              |                     |                      |            |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: J. MARSH

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 28-E-SB42

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-5843

COORDINATES: EAST: 2498803.84

NORTH: 331792.58

ELEVATION: SURFACE: 16.12

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

|              |             |        |           |             |         |               |                       |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: #73     |             |        |           |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 3 1/4" ID |             | 4-10-94 | 0-24'         | overcast, mild (60's) | 15.0             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                       |                  |      |
| FALL         | 30"         |        |           |             |         |               |                       |                  |      |
| STICK UP     |             |        |           |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 24.0' and grouted to surface. H2O background is .6 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | S-1                 | 1.6                | 6          |              | BG        | Roasted zone<br>SILTY SAND, fine grained. Dark brown to brown, medium dense, damp.  |           |
| 2           |                     | 2.0                | 9          |              |           |   |           |
| 3           | S-2                 | .2                 | 1          |              | BG        | SAND, fine grained w/ trace silt. Brown to black, loose, damp. Oxidation (orange) and charcoal flecks (black) are present |           |
| 4           |                     | 2.0                | 4          |              |           |   |           |
| 5           | S-3                 | .4                 | 2          |              | BG        | FILL material (glass shards, burnt soil, charcoal flecks) w/ trace SAND fine grained. Black, loose, damp.                 |           |
| 6           |                     | 2.0                | 2          |              |           |   |           |
| 7           | S-4                 | NR                 | 7          |              | -         | NO RECOVERY   |           |
| 8           |                     | 8.0                | 9          |              |           |   |           |
| 9           | S-5                 | NR                 | 2          |              | -         |   |           |
| 10.0        |                     | 2                  | 7          |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Moore

BORING NO.: 28-W-5843

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-5843

| 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            |                      |            | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |            |  |           |   |           |
| N = No Sample   |                     |                      |            |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11              | S-6                 | .6                   | 5          |  | BG        | Continued from Sheet 1<br>FILL material (glass shards, burnt soil, charcoal flecks) w/ SAND, fine grained w/ trace silt. Dark brown, black, dark gray, orange, loose to medium dense, damp to moist |           |
| 12              |                     | 2.0                  | 5          |  |           |   |           |
| 13              |                     | 30%                  | 5          |  |           |   |           |
| 14              | S-7                 | .6                   | 1          |  | BG        |   |           |
| 15              |                     | 2.0                  | 5          |  |           |   |           |
| 16              |                     | 30%                  | 3          |  |           |   |           |
| 17              | S-8                 | 1.2                  | 5          |  | BG        | SAND, fine grained w/ trace silt and FILL material (charcoal flecks). Dark brown to dark gray, medium dense, wet.   |           |
| 18              |                     | 2.0                  | 4          |  |           |   |           |
| 19              |                     | 60%                  | 13         |  |           |   |           |
| 20              | S-9                 | .2                   | 16         |  | BG        | FILL material (burnt soil, brick, charcoal flecks) w/ SAND, fine grained w/ trace silt. Dark gray to reddish brown, dense, wet.   |           |
| 21              |                     | 2.0                  | 18         |  |           |   |           |
| 22              |                     | 10%                  | 20         |  |           |   |           |
| 23              | S-10                | .6                   | 10         |  | BG        | ORGANIC material (peat like w/ decomposed wood). Brown, medium dense, wet.  |           |
| 24              |                     | 2.0                  | 12         |  |           |   |           |
| 25              |                     | 30%                  | 4          |  |           |   |           |
| 26              | S-11                | 1.3                  | 10         |  | BG        | SAND, fine grained w/ trace silt Dark gray, medium dense, wet.  |           |
| 27              |                     | 2.0                  | 12         |  |           |   |           |
| 28              |                     | 65%                  | 16         |  |           |   |           |
| 29              | S-12                | 1.3                  | 6          |  | BG        | ORGANIC material (peat like w/ decomposed wood), Dark brown to brown, medium dense, wet.  |           |
| 30              |                     | 2.0                  | 10         |  |           |   |           |
| 31              |                     | 65%                  | 13         |  |           |   |           |
| 32              |                     |                      |            |  |           | SAND, fine grained w/ trace silt "Virgin material" from 22.9' (bgs)   | -7.88     |
| 33              |                     |                      |            |  |           | End of Boring TO 24.0'  |           |
| 34              |                     |                      |            |  |           | Match to Sheet 3  |           |

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-5843

SHEET 2 OF 2



# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB44

COORDINATES: EAST: 2498840.93

NORTH: 331948.66

ELEVATION: SURFACE: 17.07

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

|              |             |        |          |             |         |               |                       |                  |      |
|--------------|-------------|--------|----------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: #73     |             |        |          |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS   | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 3 1/4"ID |             | 4-10-94 | 0-26'         | overcast, mild (60's) |                  |      |
| LENGTH       | 2.0'        |        | 5.0'     |             |         |               |                       |                  |      |
| TYPE         | STD.        |        | HSA      |             |         |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |          |             |         |               |                       |                  |      |
| FALL         | 30"         |        |          |             |         |               |                       |                  |      |
| STICK UP     |             |        |          |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 26.0' and grouted to surface. (Hsu background is .1 ppm)

**SAMPLE TYPE**

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | S-1                 | 1.7                | 10         |              | BG        | <p><u>Rusted zone</u><br/>                     SILTY SAND, fine grained. Brown, medium dense, damp</p>  |           |
| 2           |                     |                    | 11         |              |           |   |           |
| 2.0         |                     |                    | 14         |              |           |   |           |
| 3           | S-2                 | .5                 | 3          |              | BG        | SAND, fine grained w/ trace silt and fill material (glass shards, burnt soil, charcoal flecks) Dark brown to brown, black, medium dense, damp. Oxidation (orange) is present. |           |
| 4           |                     |                    | 7          |              |           |   |           |
| 4.0         |                     |                    | 14         |              |           |   |           |
| 5           | S-3                 | 1.2                | 6          |              | BG        |   |           |
| 6           |                     |                    | 12         |              |           |   |           |
| 6.0         |                     |                    | 35         |              |           |   |           |
| 7           | S-4                 | NR                 | 19         |              | -         |   |           |
| 8           |                     |                    | 29         |              |           |   |           |
| 8.0         | S-5                 | NR                 | 10         |              | -         | NO RECOVERY   |           |
| 9           |                     |                    | 7          |              |           |   |           |
| 10.0        |                     |                    | 8          |              |           |   |           |
|             |                     |                    | 8          |              |           |   |           |
|             |                     |                    | 5          |              |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB44

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-5844

| 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                  | PID = Photoionization Detector                             |            |               |           |   |           |
| D = Denison      | P = Piston                |  |            |               |           |   |           |
| N = No Sample    |                           |  |            |               |           |   |           |
| Depth (Ft.)      | Sample Type and No.       | Sampl. Rec. (Ft. & %)                                      | SPT or RQD | Sampl. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11               | S-6                       | 1.0  | 1          |               | BG        | Continued from Sheet 1<br>FILL material (glass shards, charcoal flecks, burnt soil, wood). Brown, black, gray<br><i>medium dense, moist</i> |           |
| 12               |                           | 2.0  | 5          |               |           |   |           |
| 12.0             |                           | 50%  | 6          |               |           |   |           |
| 13               | S-7                       | NR   | 5          |               | -         | NO RECOVERY   |           |
| 14               |                           |  | 7          |               |           |   |           |
| 14.0             |                           |  | 11         |               |           |   |           |
| 15               | S-8                       | NR   | 5          |               | -         | NO RECOVERY   |           |
| 16               |                           |  | 3          |               |           |   |           |
| 16.0             |                           |  | 2          |               |           |   |           |
| 18               | S-9                       | .8   | 5          |               | 1.4       | FILL material (glass shards and ceramic material) w/ SAND, fine grained w/ trace silt. Dark gray and white, very dense, wet. oily sheen     |           |
| 18.0             |                           | 2.0  | 8          |               |           |   |           |
|                  |                           | 40%  | 67         |               |           |   |           |
| 19               | S-10                      | NR   | -          |               | -         | NO RECOVERY   |           |
| 20               |                           |  |            |               |           |   |           |
| 20.0             |                           |  |            |               |           |   |           |
| 21               | S-11                      | 1.0  | 22         |               | 1.2       | ORGANIC material (peat like w/ wood splinters). Dark gray to dark brown, very dense, wet.   |           |
| 22               |                           | 2.0  | 25         |               |           |   |           |
| 22.0             |                           | 50%  | 28         |               |           |   |           |
|                  |                           |  | 30         |               |           |   |           |
| 23               | S-12                      | NR   | 7          |               | -         | NO RECOVERY   |           |
| 24               |                           |  | 14         |               |           |   |           |
| 24.0             |                           |  | 18         |               |           |   |           |
| 25               | S-13                      | 1.1  | 14         |               | .4        | SAND, fine grained w/ trace silt<br>"virgin material from 24.0' (bgs)   | -8.93     |
| 26               |                           | 2.0  | 10         |               |           |   |           |
| 26.0             |                           | 55%  | 6          |               |           |   |           |
|                  |                           |  | 10         |               |           |   |           |
| 27               | End of Boring<br>TD 26.0' |  |            |               |           |   |           |
| 28               |                           |  |            |               |           |   |           |
| 29               |                           |  |            |               |           |   |           |
| Match to Sheet 3 |                           |  |            |               |           |   |           |

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-5844

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB45

COORDINATES: EAST: 2498541.03

NORTH: 331951.36

ELEVATION: SURFACE: 18.26

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

|              |             |        |         |             |         |               |                                 |                  |      |
|--------------|-------------|--------|---------|-------------|---------|---------------|---------------------------------|------------------|------|
| RIG: #73     |             |        |         |             |         |               |                                 |                  |      |
|              | SPLIT SPOON | CASING | AUGERS  | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                         | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3/4" ID |             | 4-10-94 | 0-22'         | Partly cloudy warm (70's) windy | 12.2             |      |
| LENGTH       | 2.0'        |        | 5.0'    |             |         |               |                                 |                  |      |
| TYPE         | STD.        |        | HSA     |             |         |               |                                 |                  |      |
| HAMMER WT.   | 140#        |        |         |             |         |               |                                 |                  |      |
| FALL         | 30"         |        |         |             |         |               |                                 |                  |      |
| STICK UP     |             |        |         |             |         |               |                                 |                  |      |

REMARKS: Boring sampled to 22.0' and grouted to surface. Hsu background is .2 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary      C = Core  
 D = Denison        P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD        | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|-------------------|--------------|-----------|--|-----------|
| 1           | S-1                 | 1.6 / 2.0          | 11 / 10 / 8       |              | .7        | SILTY SAND, fine grained. Brown, orange (oxidation), light brown, medium dense, damp                                       |           |
| 2           |                     | 80%                | 8                 |              |           |  |           |
| 3           | S-2                 | .7 / 2.0           | 6 / 9 / 12        |              | 1.0       | FILL material (glass shards, burnt soil, oxidation zones, wood). Brown to orangish brown, medium dense, damp               |           |
| 4           |                     | 35%                | 22                |              |           |  |           |
| 5           | S-3                 | .6 / 2.0           | 3 / 17 / 9 / 6    |              | 1.2       |  |           |
| 6           |                     | 30%                | 6                 |              |           |  |           |
| 7           | S-4                 | .5 / 2.0           | 17 / 14 / 13 / 14 |              | 1.0       | SAND, fine grained w/ trace silt and FILL material (burnt soil and ceramics) light brown, white, black, medium dense, damp |           |
| 8           |                     | 25%                | 14                |              |           |  |           |
| 9           | S-5                 | .5 / 2.0           | 5 / 2 / 1 / 6     |              | 1.2       | FILL material (burnt soil, charcoal flecks and ceramics). Brown to dark brown to black, loose, damp                        |           |
| 10.0        |                     | 25%                | 6                 |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Moore

BORING NO.: 28-W-SB45

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB45

| 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   |  |  |  |  | PID = Photoionization Detector                             |  |
| D = Denison     | P = Piston |  |  |  |  |  |  |
| N = No Sample   |            |  |  |  |  |  |  |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD          | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|----------------------|---------------------|--------------|-----------|--|-----------|
| 11          | S-6                 | NR                   | 2<br>2<br>3<br>4    |              | -         | Continued from Sheet 1<br>NO RECOVERY  |           |
| 12          |                     |                      |                     |              |           |  |           |
| 13          | S-7                 | .4<br>2.0<br>20%     | 2<br>22<br>46<br>11 |              | .6        | FILL material (brick, burnt soil glass shards, ceramics). Dark gray to reddish brown, very dense wet.  |           |
| 14          |                     |                      |                     |              |           |  |           |
| 15          | S-8                 | 1.9<br>2.0<br>95%    | 9<br>9<br>10<br>11  |              | .9        | ORGANIC material (peat like w/ wood). Dark brown, medium dense, wet.   |           |
| 16          |                     |                      |                     |              |           |  |           |
| 17          | S-9                 | .3<br>2.0<br>15%     | 8<br>3<br>9<br>8    |              | .7        | FILL material (matrix only) w/ ORGANIC material (wood w/ peat) Dark brown, medium dense, wet.  |           |
| 18          |                     |                      |                     |              |           |  |           |
| 19          | S-10                | 1.7<br>2.0<br>85%    | 6<br>4<br>5<br>4    |              | 1.2       | ORGANIC material (peat like w/ wood splinters) w/ SAND, fine grained w/ little silt. Dark brown to brown to green, loose to medium dense, wet. |           |
| 20          |                     |                      |                     |              |           |  |           |
| 21          | S-11                | 1.5<br>2.0<br>75%    | 1<br>5<br>4<br>4    |              | 1.5       | SAND, fine grained w/ little silt. Green to yellow, loose to medium dense, wet   | -3.7      |
| 22          |                     |                      |                     |              |           |  |           |
| 23          |                     |                      |                     |              |           | End of Boring  |           |
| 24          |                     |                      |                     |              |           | TD 22.0'   |           |
| 25          |                     |                      |                     |              |           |  |           |
| 26          |                     |                      |                     |              |           |  |           |
| 27          |                     |                      |                     |              |           |  |           |
| 28          |                     |                      |                     |              |           |  |           |
| 29          |                     |                      |                     |              |           |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-SB45

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB46

COORDINATES: EAST: 2498636.73

NORTH: 331914.93

ELEVATION: SURFACE: 17.86

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

|              |             |        |           |             |         |               |                                  |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|----------------------------------|------------------|------|
| RIG: #73     |             |        |           |             |         |               |                                  |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                          | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3 1/4" ID |             | 4-10-94 | 0-26'         | Partly cloudy, warm (70's) windy |                  |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                                  |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                                  |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                                  |                  |      |
| FALL         | 30"         |        |           |             |         |               |                                  |                  |      |
| STICK UP     |             |        |           |             |         |               |                                  |                  |      |

REMARKS: Boring sampled to 26.0' and grouted to surface. HNU background is .2 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD        | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|-------------------|--------------|-----------|--|-----------|
| 1           | S-1                 | 1.8 / 2.0          | 10<br>15<br>15    |              | 1.1       | SILTY SAND, fine grained. Gray to brown, medium dense, damp  |           |
| 2           |                     | 90%                | 7                 |              |           |  |           |
| 3           | S-2                 | 1.4 / 2.0          | 7<br>12<br>12     |              | 1.9       | SAND, fine grained w/ trace silt. Brown to light gray to dark brown, medium dense, damp                                  |           |
| 4           |                     | 70%                | 17                |              |           |  |           |
| 5           | S-3                 | .4 / 2.0           | 8<br>7<br>7       |              | .7        |  |           |
| 6           |                     | 20%                | 4                 |              |           |  |           |
| 7           | S-4                 | .6 / 2.0           | 18<br>30<br>14    |              | 1.0       | FILL material (burnt soil, charcoal flecks, glass shards, brick, oxidation zone). Dark brown, orange, black, dense, damp |           |
| 8           |                     | 30%                | 13                |              |           |  |           |
| 9           | S-5                 | NR                 | 4<br>11<br>8<br>9 |              | -         | NO RECOVERY  |           |
| 10.0        |                     |                    |                   |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Moore

BORING NO.: 28-W-SB46

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB4G

| 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            |                      |                |              |           | PID = Photoionization Detector  |           |
| D = Denison     | P = Piston          |                      |                |              |           |   |           |
| N = No Sample   |                     |                      |                |              |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
| 11              | S-6                 | .8<br>2.0            | 2<br>7<br>9    |              | .5        | Continued from Sheet 1<br>FILL material (burnt soil, charcoal, wood). Dark brown to black, medium dense, damp to moist  |           |
| 12              |                     | 40%                  | 6              |              |           |   |           |
| 13              | S-7                 | NR                   | 5<br>5<br>7    |              | -         | NO RECOVERY   |           |
| 14              |                     |                      | 4              |              |           |   |           |
| 15              | S-8                 | .2<br>2.0            | 3<br>6<br>5    |              | .5        | FILL material (brick) w/ SAND fine grained w/ trace silt as matrix only. Reddish brown to dark gray, medium dense, wet. |           |
| 16              |                     | 10%                  | 3              |              |           |   |           |
| 17              | S-9                 | .2<br>2.0            | 4<br>4<br>26   |              | 1.1       |   |           |
| 18              |                     | 10%                  | 6              |              |           |   |           |
| 19              | S-10                | NR                   | 7<br>9<br>13   |              | -         | NO RECOVERY   |           |
| 20              |                     |                      | 14             |              |           |   |           |
| 21              | S-11                | .6<br>2.0            | 11<br>12<br>12 |              | .5        | SAND, fine grained w/ trace silt. Sample is "soupy". Dark gray, medium dense, wet.                                      |           |
| 22              |                     | 30%                  | 15             |              |           |   |           |
| 23              | S-12                | 1.0<br>2.0           | 7<br>4<br>4    |              | 60.5      | ORGANIC material (peat like w/wood) and FILL material (metal and glass shards)  |           |
| 24              |                     | 50%                  | 9              |              |           |   |           |
| 25              | S-13                | 1.1<br>2.0           | 12<br>7<br>2   |              | 31.0      | SAND, fine grained w/ little silt. Gray to green, loose to medium dense, wet.   |           |
| 26              |                     | 55%                  | 2              |              |           |   |           |
| 27              |                     |                      |                |              |           | End of Boring<br>TD 26.0'   | -8.14     |
| 28              |                     |                      |                |              |           |   |           |
| 29              |                     |                      |                |              |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-W-SB4G

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-SB47

COORDINATES: EAST: 2498611.05

NORTH: 331715.71

ELEVATION: SURFACE: 14.52

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

|              |             |        |           |             |         |               |                                       |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|---------------------------------------|------------------|------|
| RIG: # 73    |             |        |           |             |         |               |                                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3 1/4" ID |             | 4-10-94 | 0-24'         | Partly Cloudy<br>warm (70's)<br>windy | 12.5             |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                                       |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                                       |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                                       |                  |      |
| FALL         | 30"         |        |           |             |         |               |                                       |                  |      |
| STICK UP     |             |        |           |             |         |               |                                       |                  |      |

REMARKS: Boring sampled to 24.0' and grouted to surface. H<sub>2</sub>O background is .1 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           | S-1                 | 1.4 / 2.0          | 8 / 7      |              | 11.2      | <i>Rooted zone</i><br>SILTY SAND, fine grained. Gray to brown, medium dense, damp.   |           |
| 2           |                     | 70%                | 7          |              |           | FILL material (glass shards, burnt soil, charcoal flecks, numerous oxidation zones). Dark brown, black, dark gray, orange, medium dense, damp. |           |
| 3           | S-2                 | .3 / 2.0           | 3 / 7      |              | .6        |  |           |
| 4           |                     | 15%                | 4          |              |           | NO RECOVERY  |           |
| 5           | S-3                 | NR                 | 26 / 7     |              | -         |  |           |
| 6           |                     |                    | 9          |              |           | FILL material (glass shards, burnt soil, charcoal flecks, oxidation zones) orange, dark brown, black, medium dense, damp.                      |           |
| 7           | S-4                 | 1.0 / 2.0          | 3 / 9      |              | .4        |  |           |
| 8           |                     | 50%                | 16         |              |           |  |           |
| 9           | S-5                 | .8 / 2.0           | 6 / 7      |              | 10.2      |  |           |
| 10          |                     | 40%                | 7          |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Moore

BORING NO.: 28-W-SB47

SHEET 1 OF 2

# TEST BORING RECORD

Baker Environmental, Inc.

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-W-5847

| 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            |                      |            | PID = Photoionization Detector                             |           |   |           |
| D = Denison     | P = Piston          |                      |            |  |           |   |           |
| N = No Sample   |                     |                      |            |  |           |   |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description  | Elevation |
| 11              | S-6                 | .6<br>2.0            | 6<br>23    |  |           | Continued from Sheet 1  |           |
| 12              | 12.0                | 30%                  | 4          |  | .7        | FILL material (burnt soil, trace glass shards, some charcoal flecks and little oxidation) w/ SAND, fine grained as matrix only. Dark brown to brown to dark gray, damp to moist to wet, medium dense to dense |           |
| 13              | S-7                 | .6<br>2.0            | 9          |  | .5        |   |           |
| 14              | 14.0                | 30%                  | 8          |  |           | SAND, fine grained w/ trace silt. "Pea gravel" well rounded is present. Thin gauge copper wire is at top of sample. Dark brown to dark gray, very dense, wet  |           |
| 15              | S-8                 | .4<br>2.0            | 4          |  | .5        |   |           |
| 16              | 16.0                | 20%                  | 10         |  |           | FILL material (trace glass shards and oxidation). Dark gray, medium dense, wet  |           |
| 18              | S-9                 | .5<br>2.0            | 10         |  | 1.1       |   |           |
| 19              | 18.0                | 25%                  | 9          |  |           | ORGANIC material (peat like w/ wood). Dark brown, medium dense, wet   |           |
| 20              | S-10                | 1.5<br>2.0           | 4          |  | 1.2       |   |           |
| 21              | 20.0                | 75%                  | 7          |  |           | SAND, fine grained w/ trace silt. Olive gray, medium dense, wet   |           |
| 22              | S-11                | 1.3<br>2.0           | 4          |  | 1.4       |   |           |
| 23              | 22.0                | 65%                  | 12         |  |           | ORGANIC material (peat like w/ wood). Dark brown  |           |
| 24              | S-12                | 1.8<br>2.0           | 10         |  | 1.6       |   |           |
| 25              | 24.0                | 90%                  | 22         |  |           | SAND, fine to medium grained w/ trace coarse grains. Brown, dense, wet. "Virgin material" from 22.5' (bgs).   | -9.48     |
| 26              |                     |                      |            |  |           | End of Boring   |           |
| 27              |                     |                      |            |  |           | TD 24.0'  |           |
| 28              |                     |                      |            |  |           |   |           |
| 29              |                     |                      |            |  |           |   |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-W-5847

SHEET 2 OF 2



**SITE 30**

---

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFR/FTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30-SB-01

COORDINATES: EAST: 2513408.21

NORTH: 318699.00

ELEVATION: SURFACE: 43.56

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

|              |             |        |           |             |         |               |             |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |             |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER     | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-22-94 | 0-9.0         | clear, 60's | 8.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |             |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |             |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |             |                  |      |
| FALL         | 30"         |        |           |             |         |               |             |                  |      |
| STICK UP     |             |        |           |             |         |               |             |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. Hwu background is 1.4ppm

|  |   |
|--|---|
| <p><b>SAMPLE TYPE</b></p> <p>S = Split Spoon    A = Auger<br/> T = Shelby Tube    W = Wash<br/> R = Air Rotary      C = Core<br/> D = Denison        P = Piston<br/> N = No Sample</p> | <p><b>DEFINITIONS</b></p> <p>SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br/> RQD = Rock Quality Designation (%)<br/> PID = Photoionization Detector</p> |
|--|---|

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD    | Samp. Desig. | PID (ppm) | Visual Description  | Elevation        |
|-------------|---------------------|--------------------|---------------|--------------|-----------|---|------------------|
| 1           |                     | -                  | -             | 00           | 3.3       | SILTY SAND, fine grained. Light gray to brown, very loose, damp.                          |                  |
| 2           | S-1                 | 2.0<br>2.0         | 6<br>8        |              | BG        |   |                  |
| 3           |                     | 100%               | 7             |              |           |   |                  |
| 4           | S-2                 | 1.5<br>2.0         | 11<br>8       |              | BG        | SAND, fine grained w/trace silt. Brown to dark brown, medium dense, damp to moist to wet. |                  |
| 5           |                     | 75%                | 10            |              |           |   |                  |
| 6           | S-3                 | 1.5<br>2.0         | 8<br>8        |              | BG        |   |                  |
| 7           |                     | 75%                | 10            |              |           |   |                  |
| 8           | S-4                 | 1.5<br>2.0         | 6<br>11<br>13 | 04           | BG        |   |                  |
| 9           |                     | 15%                | 15            |              |           |   | 34.56            |
| 10          |                     |                    |               |              |           | End of Boring TO 9.0'   | Match to Sheet 2 |

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 30-SB-01

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30SB02

COORDINATES: EAST: 2513470.63

NORTH: 318785.62

ELEVATION: SURFACE: 43.5334

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

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-23-94 | 0-9.0         | clear, mild (60's) | 8.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. Hsu background is .4 ppm.

**SAMPLE TYPE**  
 S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**  
 SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.)              | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|--------------------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1                        |                     | 1.0                |            | 00           | BG        | SILTY SAND, fine grained. Light gray to brown, very loose, damp.                                    |           |
| 2                        | S-1                 | 2.0                | 2<br>2     |              | BG        |   |           |
| 3                        |                     | 60%                | 4<br>5     |              |           |   |           |
| 4                        | S-2                 | 2.0                | 4<br>5     |              | BG        | SAND, fine grained w/ trace silt. Brown to dark brown, loose to medium dense, damp to moist to wet. |           |
| 5                        |                     | 75                 | 3<br>5     |              |           |   |           |
| 6                        | S-3                 | 2.0                | 3<br>4     | 03           | BG        |   |           |
| 7                        |                     | 60%                | 4<br>5     |              |           |   |           |
| 8                        | S-4                 | 2.0                | 3<br>3     |              | BG        |   |           |
| 9                        |                     | 70%                | 4<br>5     |              |           |   | 34.53     |
| End of Boring<br>TD 9.0' |                     |                    |            |              |           | Match to Sheet 2  |           |

DRILLING CO.: EMTC

BAKER REP.: \_\_\_\_\_

DRILLER: G. Barnes

BORING NO.: 30SB02

SHEET / OF /

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 305803

COORDINATES: EAST: 2513543.34

NORTH: 318872.64

ELEVATION: SURFACE: 41.95

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

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" IO |             | 3-22-94 | 0-9.0         | clear, mild (60's) | 8.0              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. H<sub>2</sub>O background is .9 ppm.

**SAMPLE TYPE**  
 S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison        P = Piston  
 N = No Sample

**DEFINITIONS**  
 SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ trace plant material. Light brown, v. loose, damp                              |           |
| 2           | S-1                 | 1.6 / 2.0          | 6          |              | BG        |  |           |
| 3           |                     | 80%                | 8          |              |           |  |           |
| 4           | S-2                 | 1.3 / 2.0          | 4          |              | BG        | SAND, fine grained w/ trace silt. Brown to light brown to dark brown, loose to medium dense, damp to moist |           |
| 5           |                     | 65%                | 4          |              | 1.5       |  |           |
| 6           | S-3                 | 1.7 / 2.0          | 7          |              |           |  |           |
| 7           |                     | 85%                | 9          | 03           | BG        |  |           |
| 8           | S-4                 | 1.4 / 2.0          | 8          |              | BG        | SAND, fine to medium grained w/ trace silt. Dark brown, moist to wet.                                      |           |
| 9           |                     | 70%                | 11         |              |           |  |           |
|             |                     |                    |            |              |           | End of Boring<br>TD 9.0'   | 32.95     |
|             |                     |                    |            |              |           | Match to Sheet 2   |           |

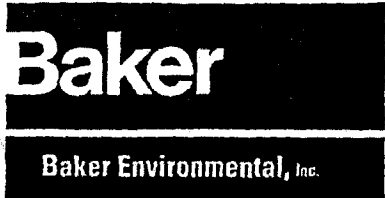
DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 305803

SHEET 1 OF 1



# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune  
 S.O. NO.: 19231 BORING NO.: 305804  
 COORDINATES: EAST: 2513612.15 NORTH: 318967.25  
 ELEVATION: SURFACE: 41.66 TOP OF PVC CASING: \_\_\_\_\_

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-23-94 | 0-9.0         | clear, mild (60's) | 8.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. H<sub>2</sub>O background is .4 ppm

|  |   |
|--|---|
| <p><b>SAMPLE TYPE</b></p> <p>S = Split Spoon    A = Auger<br/>       T = Shelby Tube    W = Wash<br/>       R = Air Rotary    C = Core<br/>       D = Denison    P = Piston<br/>       N = No Sample</p> | <p><b>DEFINITIONS</b></p> <p>SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br/>       RQD = Rock Quality Designation (%)<br/>       PID = Photoionization Detector</p> |
|--|---|

| Depth (Ft.)              | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|--------------------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1                        |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained. Light gray to brown, very loose, damp.<br><br>SAND, fine grained w/ trace silt. Brown to dark brown, loose to medium dense, damp to moist to wet. |           |
| 2                        | S-1                 | 1.2 / 2.0          | 3 / 5      |              | BG        |   |           |
| 3                        |                     | 60%                | 4 / 7      |              |           |   |           |
| 4                        | S-2                 | 1.3 / 2.0          | 3 / 4      |              | BG        |   |           |
| 5                        |                     | 65%                | 5 / 7      |              |           |   |           |
| 6                        | S-3                 | 1.5 / 2.0          | 7 / 7      | 03           | BG        |   |           |
| 7                        |                     | 75%                | 7 / 7      |              |           |   |           |
| 8                        | S-4                 | 1.2 / 2.0          | 7 / 9      |              | BG        |   |           |
| 9                        |                     | 60%                | 11         |              |           |   | 32.66     |
| End of Boring<br>TD 9.0' |                     |                    |            |              |           | Match to Sheet 2  |           |

DRILLING CO.: EMTC BAKER REP.: J.E. Zimmerman  
 DRILLER: G. Barnes BORING NO.: 305804 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30-SB-05

COORDINATES: EAST: 2513283.72

NORTH: 318788.22

ELEVATION: SURFACE: 39.79

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

|              |             |        |           |             |         |               |             |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |             |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER     | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-22-94 | 0-7.0         | clear, 60's | 6.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |             |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |             |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |             |                  |      |
| FALL         | 30"         |        |           |             |         |               |             |                  |      |
| STICK UP     |             |        |           |             |         |               |             |                  |      |

REMARKS: Boring sampled to 7.0' and grouted to surface. Hwu background is 2.8 ppm

**SAMPLE TYPE**

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

**DEFINITIONS**

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained. Light brown to gray, very loose, damp.                     |           |
| 2           | S-1                 | 1.4<br>2.0         | 7<br>10    |              | BG        |  |           |
| 3           |                     | 70%                | 11         |              |           |  |           |
| 4           | S-2                 | 2.0<br>2.0         | 6<br>5     | 02           | BG        | SAND, fine grained w/ trace silt. Brown, medium dense to loose, damp to moist to wet |           |
| 5           |                     | 100%               | 6          |              |           |  |           |
| 6           | S-3                 | 1.0<br>2.0         | 3<br>3     |              | BG        |  |           |
| 7           |                     | 50%                | 4          |              |           |  | 32.79     |
| 8           |                     |                    |            |              |           | End of Boring TO 7.0'  |           |
| 9           |                     |                    |            |              |           |  |           |
| 10          |                     |                    |            |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 30-SB-05

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 305806

COORDINATES: EAST: 2513365.51

NORTH: 318883.54

ELEVATION: SURFACE: 41.43

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

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4 1/4" ID |             | 3-23-94 | 0-9.0         | clear, mild (60'S) | 8.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. HNU background is .3 ppm

|  |   |
|--|---|
| <p><b>SAMPLE TYPE</b></p> <p>S = Split Spoon    A = Auger<br/> T = Shelby Tube    W = Wash<br/> R = Air Rotary      C = Core<br/> D = Denison        P = Piston<br/> N = No Sample</p> | <p><b>DEFINITIONS</b></p> <p>SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')<br/> RQD = Rock Quality Designation (%)<br/> PID = Photoionization Detector</p> |
|--|---|

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD  | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|-------------|--------------|-----------|---|-----------|
| 1           |                     | —                  | —           | 00           | BG        | SILTY SAND, fine grained. Light gray, very loose, damp.   |           |
| 2           | S-1                 | 1.2 / 2.0          | 2<br>3<br>4 |              | BG        |   |           |
| 3           |                     | 60%                | 5           |              |           | SAND, fine grained w/ trace silt. Light gray to brown to dark brown, loose to medium dense, damp to moist to wet. |           |
| 4           | S-2                 | 1.5 / 2.0          | 4<br>5<br>9 |              | BG        |   |           |
| 5           |                     | 75%                |             |              |           |   |           |
| 6           | S-3                 | 1.5 / 2.0          | 4<br>5<br>6 | 03           | BG        |   |           |
| 7           |                     | 75%                | 8           |              |           |   |           |
| 8           | S-4                 | 1.1 / 2.0          | 3<br>5<br>6 |              | BG        |   |           |
| 9           |                     | 55%                | 6           |              |           | End of Boring<br>TD 9.0'  | 32.43     |
|             |                     |                    |             |              |           | Match to Sheet 2  |           |

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 305806

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30SB07

COORDINATES: EAST: 2513465.70

NORTH: 318973.60

ELEVATION: SURFACE: 40.98

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

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-22-94 | 0-9.0         | clear, mild (60's) | 8.0              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. Hsu background is 1.0ppm

### SAMPLE TYPE

- S = Split Spoon
- T = Shelby Tube
- R = Air Rotary
- D = Denison
- A = Auger
- W = Wash
- C = Core
- P = Piston
- N = No Sample

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ trace plant material. Light gray, very loose, damp                                   |           |
| 2           | S-1                 | 1.5 / 2.0          | 1 / 2      |              |           |  |           |
| 3           |                     | 75%                | 3          |              | BG        |  |           |
| 4           | S-2                 | 1.1 / 2.0          | 5 / 5      |              | BG        | SAND, fine grained w/ trace sil. Light gray to brown to dark brown, loose to medium dense, damp to moist to wet. |           |
| 5           |                     | 55%                | 6          |              |           |  |           |
| 6           | S-3                 | .7 / 2.0           | 4 / 4      | 03           | BG        |  |           |
| 7           |                     | 35%                | 5 / 7      |              |           |  |           |
| 8           | S-4                 | 1.9 / 2.0          | 7 / 11     |              | BG        |  |           |
| 9           |                     | 95%                | 13         |              |           | End of Boring<br>TD 9.0'   | 31.98     |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 30SB07

SHEET / OF /



# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 305808

COORDINATES: EAST: 2513546.56

NORTH: 319032.99

ELEVATION: SURFACE: 40.49

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

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: # 220   |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-23-94 | 0-7.0         | clear, mild (60's) | 6.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 7.0' and grouted to surface. H2O background is .4 ppm.

### SAMPLE TYPE

- S = Split Spoon      A = Auger
- T = Shelby Tube      W = Wash
- R = Air Rotary      C = Core
- D = Denison      P = Piston
- N = No Sample

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation             |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------------------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained. Light gray to brown, very loose, damp.  |                       |
| 2           | S-1                 | 1.1 / 2.0          | 7          |              |           |   |                       |
| 3           |                     | 55%                | 7          |              |           | SAND, fine grained w/ trace silt. Light brown to brown to dark brown, medium dense to loose, damp to moist to wet |                       |
| 4           | S-2                 | 1.7 / 2.0          | 5          | 02           | BG        |   |                       |
| 5           |                     | 85%                | 4          |              |           |   |                       |
| 6           | S-3                 | 1.2 / 2.0          | 2          |              | BG        |   |                       |
| 7           |                     | 60%                | 10         |              |           |   |                       |
| 7           |                     |                    |            |              |           |   | End of Boring TO 7.0' |
| 8           |                     |                    |            |              |           |   |                       |
| 9           |                     |                    |            |              |           |   |                       |
| 10          |                     |                    |            |              |           |   |                       |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 305808

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30S809

COORDINATES: EAST: 2513391.79

NORTH: 318792.71

ELEVATION: SURFACE: 42.80

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

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8"ID    |        | 4 1/4" ID |             | 3-23-94 | 0-7.0         | clear, mild (60's) | 7.0              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 7.0' and grouted to surface. Hsu background is .3 ppm

### SAMPLE TYPE

S = Split Spoon      A = Auger  
 T = Shelby Tube      W = Wash  
 R = Air Rotary      C = Core  
 D = Denison      P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|-----------|
| 1           |                     |                    |            | 00           | BG        | SILTY SAND, fine grained. Light gray to brown, very loose, damp.             |           |
| 2           | S-1                 | 1.8 / 2.0          | 3          |              | BG        |  |           |
| 3           |                     | 90%                | 8          |              |           |  |           |
| 4           | S-2                 | 1.7 / 2.0          | 4          | 02           | BG        | SAND, fine grained w/ trace silt. Brown, medium dense, damp to moist to wet. |           |
| 5           |                     | 85%                | 9          |              |           |  |           |
| 6           | S-3                 | 1.5 / 2.0          | 5          |              | BG        |  |           |
| 7           |                     | 75%                | 7          |              |           |  |           |
| 8           |                     |                    |            |              |           | End of Boring<br>TD 7.0'   |           |
| 9           |                     |                    |            |              |           |  |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 30S809

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30SB10

COORDINATES: EAST: 2513467.60

NORTH: 318872.29

ELEVATION: SURFACE: 41.83

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

|              |             |        |           |             |         |               |                   |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-------------------|------------------|------|
| RIG: # 220   |             |        |           |             | DATE    | PROGRESS (FT) | WEATHER           | WATER DEPTH (FT) | TIME |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL |         |               |                   |                  |      |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-22-94 | 0-9.0         | clear mild (60's) | 8.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                   |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                   |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                   |                  |      |
| FALL         | 30"         |        |           |             |         |               |                   |                  |      |
| STICK UP     |             |        |           |             |         |               |                   |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. Hsu background is .9ppm

### SAMPLE TYPE

- S = Split Spoon      A = Auger
- T = Shelby Tube      W = Wash
- R = Air Rotary      C = Core
- D = Denison      P = Piston
- N = No Sample

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           |                     |                    |            | 00           | BG        | SAND, fine grained w/ trace silt. Light gray to brown, v. loose, damp |           |
| 2           | S-1                 | 1.4 / 2.0          | 2          |              | BG        |   |           |
| 3           |                     | 70%                | 5          |              |           |   |           |
| 4           | S-2                 | 1.7 / 2.0          | 8          |              | BG        |   |           |
| 5           |                     | 85%                | 9          |              |           |   |           |
| 6           | S-3                 | 1.6 / 2.0          | 5          | 03           | BG        |   |           |
| 7           |                     | 80%                | 10         |              |           |   |           |
| 8           | S-4                 | 1.8 / 2.0          | 10         |              | BG        |   |           |
| 9           |                     | 90%                | 14         |              |           |   |           |
| 10          |                     |                    |            |              |           |   | 32.83     |

End of Boring  
TD 9.0'

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 30SB10

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30SB11

COORDINATES: EAST: 2513544.47

NORTH: 318959.99

ELEVATION: SURFACE: 40.87

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

|              |             |        |           |             |         |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|--------------------|------------------|------|
| RIG: #220    |             |        |           |             |         |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-22-94 | 0-9.0         | clear, mild (60's) | 7.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                    |                  |      |
| TYPE         | STD.        |        | HSA       |             |         |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                    |                  |      |
| FALL         | 30"         |        |           |             |         |               |                    |                  |      |
| STICK UP     |             |        |           |             |         |               |                    |                  |      |

REMARKS: Boring sampled to 9.0' and grouted to surface. Hwu background is .7 ppm

### SAMPLE TYPE

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

### DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')  
 RQD = Rock Quality Designation (%)  
 PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD  | Samp. Desig. | PID (ppm) | Visual Description   | Elevation |
|-------------|---------------------|--------------------|-------------|--------------|-----------|--|-----------|
| 1           |                     |                    |             | 00           | BG        | SILTY SAND, fine grained. Light gray to brown, very loose, damp.   |           |
| 2           | S-1                 | 1.2 / 2.0          | 4<br>6<br>8 |              | BG        |  |           |
| 3           |                     | 60%                | 9           |              |           |  |           |
| 4           | S-2                 | 1.6 / 2.0          | 5<br>6<br>6 |              | BG        | SAND, fine grained w/ trace silt. Brown to light brown to dark brown, medium dense to loose, damp to moist to wet. |           |
| 5           |                     | 80%                | 8           |              |           |  |           |
| 6           | S-3                 | .8 / 2.0           | 4<br>4      | 03           | BG        |  |           |
| 7           |                     | 40%                | 8           |              |           |  |           |
| 8           | S-4                 | 1.8 / 2.0          | 6<br>7<br>8 |              | BG        |  |           |
| 9           |                     | 90%                | 9           |              |           |  |           |
|             |                     |                    |             |              |           | End of Boring<br>TD 9.0'   | 31.87     |
|             |                     |                    |             |              |           | Match to Sheet 2   |           |

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 30SB11

SHEET / OF /

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 30 SPARTSA REIFS MCB CAMP LLJEUNG  
 S.O. NO.: 62470-231 BORING NO.: 30 SB12  
 COORDINATES: EAST: 2514564.52 NORTH: 318615.29  
 ELEVATION: SURFACE: 43.80 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |             |  |                |               |                     |                                |      |
|------------------|------------------|--------|-------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-23-94</u> | <u>7'</u>     | <u>CLEAR + WARM</u> | <u>6'</u>                      |      |
| LENGTH           | <u>2.0'</u>      |        |             |  |                |               |                     |                                |      |
| TYPE             | <u>STD</u>       |        |             |  |                |               |                     |                                |      |
| HAMMER WT.       | <u>140#</u>      |        |             |  |                |               |                     |                                |      |
| FALL             | <u>50"</u>       |        |             |  |                |               |                     |                                |      |
| STICK UP         |                  |        |             |  |                |               |                     |                                |      |

REMARKS: (BG) BACKGROUND HNU READINGS = .5 ppm

| DRILL RECORD |              |           |                      |                    |             |           | VISUAL DESCRIPTION  |             |                     |   |  | SOIL<br>ROCK | ELEVATION |
|--------------|--------------|-----------|----------------------|--------------------|-------------|-----------|---|-------------|---------------------|---|--|--------------|-----------|
| DEPTH        | SOIL<br>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 |  |              |           |
|              |              |           |                      |                    |             |           | Classification (Name, Grain Size, Principal Constituents, Etc.) | Color       | Hardness            | Weathering, Bedding, Fracturing, and Other Observations               |  |              |           |
| 1            | LAB          | 00        | 100%                 | —                  | ∞           | BG        | SAND-FINE   | white       | LOOSE               | DRY   |  |              |           |
| 2            |              | S-1       | 1.25/2               | 4                  |             | BG        | SAND-FINE TRACE SILT  | white       | MED DENSE           | DRY   |  |              |           |
| 3            |              |           | 88%                  | 8                  |             |           |   |             |                     |   |  |              |           |
| 4            |              | S-2       | 1.25/2               | 9                  |             | BG        | SAND-FINE TRACE SILT  | BROWN-BLACK | DENSE               | MOIST   |  |              |           |
| 5            |              |           | 88%                  | 13                 |             |           |   |             |                     |   |  |              |           |
| 6            | LAB          | S-3       | 2/2                  | 4                  |             | BG        | SAND-FINE TRACE SILT  | Brown       |                     | WET   |  |              |           |
| 7            |              |           | 100%                 | 5                  |             |           | WATER @ 6'  |             |                     |   |  |              |           |
| 8            |              |           |                      |                    |             |           | END OF BORING 7'  |             |                     |   |  | 36.8         |           |
| 9            |              |           |                      |                    |             |           |   |             |                     |   |  |              |           |
| 10           |              |           |                      |                    |             |           |   |             |                     |   |  |              |           |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 30 SB12 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 30 SPRFTSA RT/FS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 30 SB 13

COORDINATES: EAST: 2514492.58

NORTH: 318919.81

ELEVATION: SURFACE: 40.17

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

|                  |                  |        |        |             |                |               |                     |                                |      |
|------------------|------------------|--------|--------|-------------|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-23-94</u> | <u>5'</u>     | <u>CLEAR + WARM</u> | <u>3'</u>                      |      |
| LENGTH           | <u>2.0'</u>      |        |        |             |                |               |                     |                                |      |
| TYPE             | <u>STD</u>       |        |        |             |                |               |                     |                                |      |
| HAMMER WT.       | <u>140#</u>      |        |        |             |                |               |                     |                                |      |
| FALL             | <u>30"</u>       |        |        |             |                |               |                     |                                |      |
| STICK UP         |                  |        |        |             |                |               |                     |                                |      |

REMARKS: BACKGROUND (BG) HNU = 0.4 ppm

| DRILL RECORD |              |  |                            |                             |                |              | VISUAL DESCRIPTION  |             |                           |  |              |           |
|--------------|--------------|--|----------------------------|-----------------------------|----------------|--------------|---|-------------|---------------------------|--|--------------|-----------|
| DEPTH        | SOIL<br>ROCK | Sample ID<br>Type-<br>No. (N =<br>No Samp. | Samp. Rec.<br>(Ft. &<br>%) | SPT<br>Blows<br>Per<br>0.5' | Lab.<br>Class. | PID<br>(ppm) | Classification<br>(Grain Size, Principal<br>Constituents, Etc.)       | Color       | Consist.<br>or<br>Density | Moisture Content,<br>Organic Content,<br>Plasticity, and<br>Other Observations | SOIL<br>ROCK | ELEVATION |
|              |              |  |                            |                             |                |              | Classification<br>(Name, Grain Size, Principal<br>Constituents, Etc.) | Color       | Hardness                  | Weathering, Bedding,<br>Fracturing, and Other<br>Observations                  |              |           |
| 1            | LAB 00       |  | 100%                       | -                           | 00             | BG           | SAND-FINE   | WHITE       | LOOSE                     | DAMP   |              |           |
| 2            | LAB 5-1      |  | 1.5/2                      | 4                           |                | BG           | SAND-FINE TRACE SILT  | LT. GRAY    | LOOSE                     | MOIST  |              |           |
| 3            |              |  | 75%                        | 2                           |                |              | WATER @ 3'  |             |                           |  |              |           |
| 4            |              | S-2  | 2/2                        | 3                           |                | BG           | SAND-FINE TRACE SILT  | BROWN/BLACK | LOOSE                     | WET  |              |           |
| 5            |              |  | 100%                       | 5                           |                |              | END OF BORING 5'  |             |                           |  |              | 35.       |
| 6            |              |  |                            |                             |                |              |   |             |                           |  |              |           |
| 7            |              |  |                            |                             |                |              |   |             |                           |  |              |           |
| 8            |              |  |                            |                             |                |              |   |             |                           |  |              |           |
| 9            |              |  |                            |                             |                |              |   |             |                           |  |              |           |
| 10           |              |  |                            |                             |                |              |   |             |                           |  |              |           |

DRILLING CO.: EMTL

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 30 SB 13

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SITE 30 SRAFTSA RIFES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 30 SB 14  
 COORDINATES: EAST: 2514337.12 NORTH: 319226.54  
 ELEVATION: SURFACE: 38.60 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |             |  |                |               |                     |                                |      |
|------------------|------------------|--------|-------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-23-94</u> | <u>3'</u>     | <u>CLEAR + WARM</u> | <u>3'</u>                      |      |
| LENGTH           | <u>2.0'</u>      |        |             |  |                |               |                     |                                |      |
| TYPE             | <u>STD</u>       |        |             |  |                |               |                     |                                |      |
| HAMMER WT.       | <u>140 #</u>     |        |             |  |                |               |                     |                                |      |
| FALL             | <u>30"</u>       |        |             |  |                |               |                     |                                |      |
| STICK UP         |                  |        |             |  |                |               |                     |                                |      |

REMARKS: BACKGROUND (BG) HNU = 0.4 RPM

| 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            | LAB  | 00                      | 100%       | 3                  | 00          | BG        | SAND-FINE   | WHITE | LOOSE               | DAMP  |      |           |
| 2            | LAB  | 5-1                     | 2          | 4                  | 01          | BG        | SAND-FINE TRACE SILT  | BROWN | LOOSE               | MOIST TO WET  |      |           |
| 3            |      |                         | 100%       | 6                  |             |           | WATER @ 3'<br>END OF BORING 3'                                  |       |                     |   |      | 35.       |
| 4            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 5            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 6            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |       |                     |   |      |           |
| 10           |      |                         |            |                    |             |           |   |       |                     |   |      |           |

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 30 SB 14 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: Site 30 SFRPTSA RI/FS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-251 BORING NO.: 30 SB 15  
 COORDINATES: EAST: 2514300.20 NORTH: 319385.26  
 ELEVATION: SURFACE: 39.16 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |             |  |                |               |                         |                                |      |
|------------------|------------------|--------|-------------|--|----------------|---------------|-------------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-23-94</u> | <u>5'</u>     | <u>CLEAR &amp; WARM</u> | <u>3'</u>                      |      |
| LENGTH           | <u>2.0'</u>      |        |             |  |                |               |                         |                                |      |
| TYPE             | <u>STD</u>       |        |             |  |                |               |                         |                                |      |
| HAMMER WT.       | <u>140 #</u>     |        |             |  |                |               |                         |                                |      |
| FALL             | <u>30"</u>       |        |             |  |                |               |                         |                                |      |
| STICK UP         |                  |        |             |  |                |               |                         |                                |      |

REMARKS: Background (Bg) HNU = 0.4 ppm

| 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            | LAB  | 00                      | 100%       | —                  | 00          | BG        | SAND-FINE TRACE Silt  | LT. GRAY | LOOSE               | DAMP  |      |           |
| 2            | LAB  | S-1                     | 2/2        | 1                  | 01          | BG        | SAND-FINE TRACE Silt  | LT. GRAY | LOOSE               | MOIST TO WET  |      |           |
| 3            |      |                         | 100%       | 3                  |             |           | WATER @ 2'  |          |                     |   |      |           |
| 4            |      | S-2                     | 1.62/2     | 1                  |             | AS        | SAND-FINE TRACE Silt  | BROWN    | LOOSE               | WET   |      |           |
| 5            |      |                         | 83%        | 2                  |             |           | END OF BORING 5'  |          |                     |   |      | 34.1      |
| 6            |      |                         |            | 3                  |             |           |   |          |                     |   |      |           |
| 7            |      |                         |            |                    |             |           |   |          |                     |   |      |           |
| 8            |      |                         |            |                    |             |           |   |          |                     |   |      |           |
| 9            |      |                         |            |                    |             |           |   |          |                     |   |      |           |
| 10           |      |                         |            |                    |             |           |   |          |                     |   |      |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 30 SB 15 SHEET 1 OF 1



# Baker

Baker Environmental, Inc.

## FIELD TEST BORING RECORD

PROJECT: SYE 30 SFRFSA RIIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62770-231 BORING NO.: 30 SB16  
 COORDINATES: EAST: 2514182.06 NORTH: 319653.31  
 ELEVATION: SURFACE: 41.20 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |             |  |                |               |                     |                                |      |
|------------------|------------------|--------|-------------|--|----------------|---------------|---------------------|--------------------------------|------|
| RIG: <u>B-57</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>3-23-94</u> | <u>7</u>      | <u>CLEAR + WARM</u> | <u>5</u>                       |      |
| LENGTH           | <u>2.0'</u>      |        |             |  |                |               |                     |                                |      |
| TYPE             | <u>STD</u>       |        |             |  |                |               |                     |                                |      |
| HAMMER WT.       | <u>140 #</u>     |        |             |  |                |               |                     |                                |      |
| FALL             | <u>30"</u>       |        |             |  |                |               |                     |                                |      |
| STICK UP         |                  |        |             |  |                |               |                     |                                |      |

REMARKS: BACKGROUND (BG) HNU = 0.3 ppm

| DRILL RECORD |           |                                      |                      |                    |             |   | VISUAL DESCRIPTION                |                     |   |           |           |           |
|--------------|-----------|--------------------------------------|----------------------|--------------------|-------------|---|-----------------------------------|---------------------|---|-----------|-----------|-----------|
| DEPTH        | SOIL ROCK | Sample ID<br>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            | LAB       | 00                                   | 100%                 | —                  | ∞           | BG  | SAND-FINE LITTLE WOOD CHIPS (RED) | LT. GRAY            | —   | DAMP      |           |           |
| 2            |           | S-1                                  | —                    | 1                  |             | BG  | NO RECOVERY                       |                     |   |           |           |           |
| 3            |           |                                      | 0%                   | 1                  |             |   |                                   |                     |   |           |           |           |
| 4            | LAB       | S-2                                  | $\frac{1.32}{2}$     | 1                  |             | BG  | SAND-FINE TRACE SILT              | 5" GRAY<br>8" BROWN |   | MOIST     |           |           |
| 5            |           |                                      | 67%                  | 1                  |             |   | WATER @ 5"                        |                     |   |           |           |           |
| 6            |           | S-3                                  | $\frac{2}{2}$        | 2                  |             | BG  | SAND-FINE LITTLE SILT             | BROWN               |   | WET       |           |           |
| 7            |           |                                      | 100%                 | 2                  |             |   | END OF BORING 7'                  |                     |   |           |           | 34        |
| 8            |           |                                      |                      |                    |             |   |                                   |                     |   |           |           |           |
| 9            |           |                                      |                      |                    |             |   |                                   |                     |   |           |           |           |
| 10           |           |                                      |                      |                    |             |   |                                   |                     |   |           |           |           |

DRILLING CO.: EMTC  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 30 SB16 SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30SB17

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

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

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

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

|              |             |        |         |             |         |               |                                   |                  |      |
|--------------|-------------|--------|---------|-------------|---------|---------------|-----------------------------------|------------------|------|
| RIG: # 225   |             |        |         |             | DATE    | PROGRESS (FT) | WEATHER                           | WATER DEPTH (FT) | TIME |
|              | SPLIT SPOON | CASING | AUGERS  | CORE BARREL |         |               |                                   |                  |      |
| SIZE (DIAM.) | 1-3/8" ID   |        | 3/4" ID |             | 3-24-94 | 0-8.0         | partly cloudy, mild, humid (50's) | 7.5              |      |
| LENGTH       | 2.0'        |        | 5.0'    |             |         |               |                                   |                  |      |
| TYPE         | STD.        |        | HSA     |             |         |               |                                   |                  |      |
| HAMMER WT.   | 140#        |        |         |             |         |               |                                   |                  |      |
| FALL         | 30"         |        |         |             |         |               |                                   |                  |      |
| STICK UP     |             |        |         |             |         |               |                                   |                  |      |

REMARKS: Boring sampled to 8.0' and grouted to surface. H<sub>2</sub>O background is .4 ppm composite from 0 to 6' was collected for Engineering Parameters

### SAMPLE TYPE

- S = Split Spoon
- T = Shelby Tube
- R = Air Rotary
- D = Denison
- N = No Sample
- A = Auger
- W = Wash
- C = Core
- P = Piston

### DEFINITIONS

- SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
- RQD = Rock Quality Designation (%)
- PID = Photoionization Detector

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|-----------|
| 1           | S-1                 | 1.5 / 2.0          | 3          |              | BG        | SILTY SAND, fine grained w/ organic material (roots). Gray to brown, loose, damp.                                     |           |
| 2           |                     | 75%                | 3          |              |           |   |           |
| 3           | S-2                 | 1.3 / 2.0          | 2          |              | BG        | SAND, fine grained w/ trace silt. Brown to yellowish brown to dark brown, loose to medium dense, damp to moist to wet |           |
| 4           |                     | 65%                | 4          |              |           |   |           |
| 5           | S-3                 | 1.4 / 2.0          | 4          |              | BG        | End of Boring TO 8.0'   |           |
| 6           |                     | 70%                | 3          |              |           |   |           |
| 7           | S-4                 | 1.5 / 2.0          | 3          |              | BG        | Match to Sheet 2  |           |
| 8           |                     | 75%                | 4          |              |           |   |           |
| 9           |                     |                    |            |              |           |   |           |

DRILLING CO.: EMTC

BAKER REP.: J. E. Zimmerman

DRILLER: J. Marsh

BORING NO.: 30SB17

SHEET 1 OF 1

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 30 SRAFTSA RT/FS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 30-SB-18

COORDINATES: EAST: 2513316.98

NORTH: 318674.15

ELEVATION: SURFACE: 40.56

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

|                  |                  |        |                  |             |               |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|---------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |               |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3 1/4" ID</u> |             | <u>4-8-94</u> | <u>9</u>      | <u>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: BACKGROUND (Bg) HNU = 0.3 ppm

**SAMPLE TYPE**

S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison    P = Piston  
 N = No Sample

**DEFINITIONS**

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

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description  | Elevation |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|-----------|
| 1           | LAB 00              | 100%<br>1.2<br>2   | 3          | 00                       | BG        | SAND-FINE TRACE SILT<br>DRY. WHITE.                           |           |
| 2           | 5-1                 | 63%<br>1.5<br>2    | 3<br>5     |                          | BG        | SAND-FINE TRACE SILT,<br>DRY. GRAY. LOOSE                     |           |
| 3           |                     |                    |            |                          |           |   |           |
| 4           | 5-2                 | 75%<br>1.7<br>2    | 4<br>7     |                          | BG        | SAND-FINE TRACE SILT<br>DAMP BROWN + WHITE<br>LOOSE.          |           |
| 5           |                     |                    |            |                          |           |   |           |
| 6           | LAB 5-3             | 88%<br>1.6<br>2    | 9<br>10    | 03                       | BG        | SAND-FINE TRACE SILT<br>MOIST. BROWN<br>MED DENSE             |           |
| 7           |                     |                    |            |                          |           |   |           |
| 8           | 5-4                 | 79%<br>1.6<br>2    | 10<br>8    |                          | BG        | WATER @ 7'<br>SAND-FINE LITTLE SILT<br>WET. BROWN. MED DENSE. |           |
| 9           |                     |                    |            |                          |           |   |           |
| 10          |                     |                    |            |                          |           | END OF BORING 9'  | 31.56     |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 30-SB-18

SHEET 1 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 30 SRRFSA REIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 30-SB-19

COORDINATES: EAST: 251314.736

NORTH: 318754.86

ELEVATION: SURFACE: 36.98

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

|                  |                  |        |                  |             |               |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|---------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |               |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3 1/4" ID</u> |             | <u>4-8-94</u> | <u>7</u>      | <u>SUNNY</u> | <u>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: BACKGROUND (BG) H<sub>NU</sub> = 0.3 PPM

| 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 |                     |                    |               |                          |           |  |           |  |  |
| Depth (Ft.)   | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD    | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description   | Elevation |  |  |
| 1             | LAB 00              | 100%               | -             | ∞                        | BG        | SAND-FINE TRACE SILT<br>DRY. WHITE.                          |           |  |  |
| 2             | S-1                 | 1.5<br>2           | 5<br>10<br>12 |                          | BG        | SAND-FINE TRACE SILT<br>DAMP. GRAY. MED DENSE                |           |  |  |
| 3             |                     | 75%                | 14            |                          |           |  |           |  |  |
| 4             | LAB S-2             | 1.6<br>2           | 8<br>8<br>7   | ∞                        | BG        | SAND-FINE TRACE SILT<br>MOIST. BROWN. MED DENSE              |           |  |  |
| 5             |                     | 79%                | 7             |                          |           |  |           |  |  |
| 6             | S-3                 | 1.5<br>2           | 6<br>12<br>14 |                          | BG        | WATER @ 5'<br>SAND-FINE TRACE SILT.<br>WET. BROWN. MED DENSE |           |  |  |
| 7             |                     | 75%                | 15            |                          |           |  | 29.98     |  |  |
| 8             |                     |                    |               |                          |           | END OF BORING 7'   |           |  |  |
| 9             |                     |                    |               |                          |           |  |           |  |  |
| 10            |                     |                    |               |                          |           |  |           |  |  |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 30-SB-19

SHEET 1 OF 2

# Baker

Baker Environmental, Inc.

# TEST BORING RECORD

PROJECT: SITE 30 SFAFSA RILES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 30-SB-20  
 COORDINATES: EAST: 2513249.26 NORTH: 318915.98  
 ELEVATION: SURFACE: 38.87 TOP OF PVC CASING: \_\_\_\_\_

|                  |                  |        |                |             |               |               |              |                  |      |
|------------------|------------------|--------|----------------|-------------|---------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                |             |               |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS         | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>3/4" ID</u> |             | <u>4-8-94</u> | <u>9</u>      | <u>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: BACKGROUND (BG) HNU = 0.3 PPM

**SAMPLE TYPE**  
 S = Split Spoon    A = Auger  
 T = Shelby Tube    W = Wash  
 R = Air Rotary    C = Core  
 D = Denison        P = Piston  
 N = No Sample

**DEFINITIONS**  
 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

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Lab. Class. or Pen. Rate | PID (ppm) | Visual Description                                    | Elevation |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|-----------|
| 1           | LAB 00              | 100%<br>1.7/2      | 5          | ∞                        | BG        | SAND-FINE TRACE S.I.T.<br>DRY. GRAY.                  |           |
| 2           | S-1                 | 78%<br>1.5/2       | 7<br>10    |                          | BG        | SAND-FINE TRACE S.I.T.<br>DRY. BLACK. MED DENSE       |           |
| 3           |                     | 78%<br>1.5/2       | 3<br>5     |                          | 0.5       | SAND-FINE LITTLE S.I.T.<br>MOIST. BROWN. MED DENSE    |           |
| 4           | S-2                 | 79%<br>1.2/2       | 7<br>3     |                          | BG        | SAND-FINE TRACE S.I.T.<br>MOIST. BROWN. MED DENSE     |           |
| 5           |                     | 88%<br>1.5/2       | 7<br>6     | 03                       | BG        | SAND-FINE TRACE S.I.T.<br>MOIST. BROWN. MED DENSE     |           |
| 6           | LAB S-3             | 88%<br>1.5/2       | 7<br>6     |                          | BG        | WATER @ 7'  |           |
| 7           |                     | 75%<br>1.5/2       | 5<br>5     |                          | BG        | SAND-FINE LITTLE S.I.T.<br>WET. LT. BROWN. MED DENSE. |           |
| 8           | S-4                 | 75%<br>1.5/2       | 5<br>7     |                          | BG        |   |           |
| 9           |                     |                    |            |                          |           | END OF BORING 9'                                      | 29.87     |
| 10          |                     |                    |            |                          |           |   |           |

Match to Sheet 2

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 30-SB-20 SHEET 1 OF 2

**APPENDIX B  
TEST BORING AND  
WELL CONSTRUCTION RECORDS**

---

# TEST BORING LOG AND WELL CONSTRUCTION LEGEND

## SOIL DESCRIPTIONS

### 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

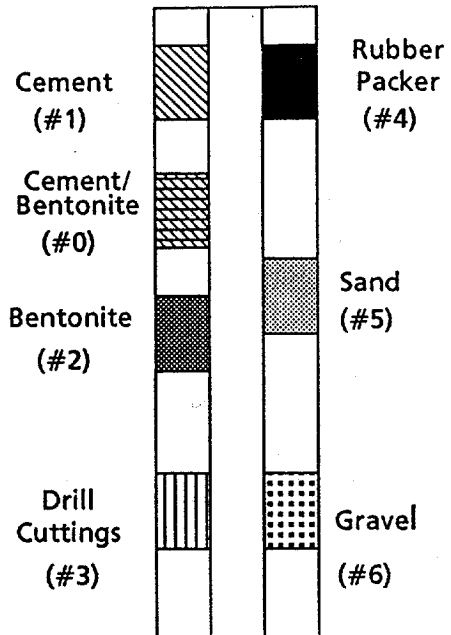
|       |        |        |
|-------|--------|--------|
| Dry   | Trace  | 0-10%  |
| Damp  | Little | 10-20% |
| Moist | Some   | 20-35% |
| Wet   | And    | 35-50% |

### CONTACTS:

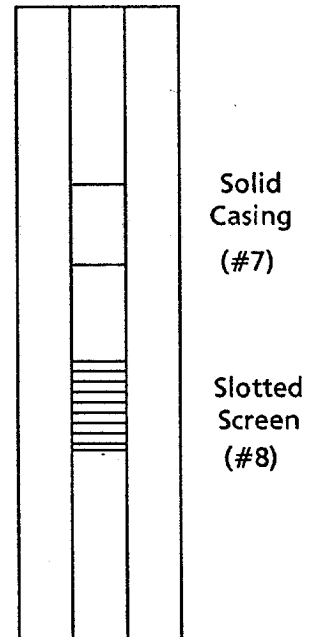
- \_\_\_\_\_ = DEFINITE
- \_\_\_\_\_ = INDEFINITE
- ..... = GRADATIONAL

## WELL SYMBOLS AND BACKFILL

### Backfill Key



### Well Key



### SAMPLE TYPE

- S= Split Spoon  
 T= Shelby Tube  
 R= Air Rotary  
 D= Denison  
 A= Auger  
 W= Wash (Roller Bit)  
 C= Core  
 P= Piston  
 N= No Sample Taken

### ABBREVIATIONS

- HS = Hollow Stem  
 NP = Non Plastic  
 -PL = Below the Plastic Limit  
 PL = At the Plastic Limit  
 +PL = Above the Plastic Limit  
 +LL = Above the Liquid Limit  
 SPT = Standard Penetration Test  
 RQD = Rock Quality Designation

# TEST BORING LOG LEGEND

| <u>SOIL DESCRIPTION</u>                 |                                 |        | <u>ROCK DESCRIPTIONS</u>             |   |            |
|---|---------------------------------|--------|--------------------------------------|---|------------|
| <b><u>GRAIN SIZE IDENTIFICATION</u></b> |                                 |        | <b><u>HARDNESS</u></b>               |   |            |
| <b><u>NAME</u></b>                      | <b><u>SIZE LIMITS</u></b>       |        | Very Soft -                          | Easily gouged by knife, easily scratched by fingernail, easily broken by hand   |            |
| Boulder                                 | 12" OR MORE                     |        | Soft -                               | Gouged by knife, scratched by fingernail, difficult to break by hand, powders with hammer   |            |
| Cobbles                                 | 3" - 12"                        |        | Medium Hard -                        | Easily scratched by knife, easily broken with hammer  |            |
| Coarse Gravel                           | 3/4" - 3"                       |        | Hard -                               | Difficult to scratch, breaks with hammer  |            |
| Fine Gravel                             | 4.76 mm (#4) - 3/4"             |        | Very Hard -                          | Difficult to break, rings when struck   |            |
| Coarse Sand                             | 2 mm (#10) - 4.76 mm (#4)       |        | <b><u>WEATHERING</u></b>             |   |            |
| Medium Sand                             | 0.42 mm (#40) - 2 mm (#10)      |        | Decomposed -                         | Soft to Very soft, bedding and fractures indistinct, no cementation.  |            |
| Fine Sand                               | 0.074 mm (#200)-0.42 mm (#40)   |        | 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). |            |
| Silt                                    | 0.002 mm-0.074 mm (#200)        |        | Weathered -                          | Soft to medium hard. Good cementation, bedding and fractures are pronounced. Uniformly stained.   |            |
| Clay                                    | Less than 0.002 mm              |        | Slightly Weathered -                 | Medium hard. Fractures pronounced, non-uniform staining, bedding distinct.  |            |
| <b><u>RELATIVE DENSITY</u></b>          |                                 |        | Fresh -                              | Medium hard to hard. No staining. Fractures may be present. Bedding may or may not be indistinct.   |            |
| <b><u>NONCOHESIVE SOIL</u></b>          |                                 |        | <b><u>BEDDING AND FRACTURES:</u></b> |   |            |
| <b><u>TERM</u></b>                      | <b><u>SPT (Blows/ft)</u></b>    |        | SPACING                              | BEDDING   | FRACTURES  |
| Very Loose                              | Below 4                         |        | LESS THAN 1/2" (1 cm)                | Indistinct  | Fissile    |
| Loose                                   | 4-10                            |        | 1/2" to 1" (1cm-3cm)                 | Laminated   | Very Close |
| Medium Dense                            | 10-30                           |        | 1" TO 4" (3cm-10cm)                  | Very Thin   | Close      |
| Dense                                   | 30-50                           |        | 4" TO 1' (10cm-30cm)                 | Thin  | Moderate   |
| Very Dense                              | OVER 50                         |        | 1' TO 3' (30 cm-1m)                  | Moderate  | Wide       |
| <b><u>COHESIVE SOILS</u></b>            |                                 |        | 1' TO 3' (30 cm-1m)                  | Thick   | Wide       |
| <b><u>TERM</u></b>                      | <b><u>SPT (Blows/ft)</u></b>    |        | 3' TO 10' (1m-3m)                    | Massive   | Very Wide  |
| Very Soft                               | BELOW 2                         |        |                                      |   |            |
| Soft                                    | 2-4                             |        |                                      |   |            |
| Medium Stiff                            | 4-8                             |        |                                      |   |            |
| Stiff                                   | 8-15                            |        |                                      |   |            |
| Very Stiff                              | 15-30                           |        |                                      |   |            |
| Hard                                    | OVER 30                         |        |                                      |   |            |
| <b><u>MOISTURE</u></b>                  |                                 |        |                                      |   |            |
| <b><u>MOISTURE</u></b>                  | <b><u>DESCRIPTIVE TERMS</u></b> |        |                                      |   |            |
| Dry                                     | Trace                           | 0-10%  |                                      |   |            |
| Damp                                    | Little                          | 10-20% |                                      |   |            |
| Moist                                   | Some                            | 20-35% |                                      |   |            |
| Wet                                     | And                             | 35-50% |                                      |   |            |
| <b><u>CONTACTS:</u></b>                 |                                 |        | <b><u>SAMPLE TYPE</u></b>            |   |            |
| _____ = DEFINITE                        |                                 |        | <b><u>ABBREVIATIONS</u></b>          |   |            |
| _____ = INDEFINITE                      |                                 |        | S = Split Spoon                      | HS = Hollow Stem  |            |
| ..... = GRADATIONAL                     |                                 |        | 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                           | RQD = Rock Quality Designation  |            |
|   |                                 |        | N = No Sample Taken                  |   |            |



**SITE 1**

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**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: Site 1 - FCLDA RI/FS MCB Camp LejeuneS.O. NO.: 19231BORING NO.: 1-GW07COORDINATES: EAST: 2501578.13NORTH: 332253.49ELEVATION: SURFACE: 20.2TOP OF PVC CASING: 23.12RIG: MOBILE B-57

|              | SPLIT SPOON | CASING | AUGERS          | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER           | WATER DEPTH (FT) | TIME             |
|--------------|-------------|--------|-----------------|-------------|---------|---------------|-------------------|------------------|------------------|
| SIZE (DIAM.) | 1-3/8" ID   |        | 3/4" / 6/16" ID |             | 4-12-94 | 0.0 - 25.0    | OVERCAST<br>± 66° | 13.0             | (BORING ADVANCE) |
| LENGTH       | 2.0'        |        | 5.0'            |             |         |               |                   |                  |                  |
| TYPE         | Std.        |        | HSA             |             |         |               |                   |                  |                  |
| HAMMER WT.   | 140#        |        |                 |             |         |               |                   |                  |                  |
| FALL         | 30"         |        |                 |             |         |               |                   |                  |                  |
| STICK UP     |             |        |                 |             |         |               |                   |                  |                  |

REMARKS: Boring sampled to 25.0'. HNu BQ = 0.2

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT)        | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|-----------------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | 2"   | PVC Threaded - Sch. 40       | + 5.13'<br>(BEEN CUT) | 10.08 bgs         |
| T = Shelby Tube | W = Wash   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 10.08 bgs             | 24.66 bgs         |
| R = Air Rotary  | C = Core   |                  |      |                              |                       |                   |
| D = Denison     | P = Piston |                  |      |                              |                       |                   |
| N = No Sample   |            |                  |      |                              |                       |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|--------------------------|-----------|
| 1           |                     |                    |            | 00           | BL        | SAND, fine grained, little silt, trace grass, trace roots, trace leaves, brown, damp (AUGERED)          |                          |           |
| 2           | S-1                 | 1.5 / 2.0          | 8 / 19     |              | BL        | SAND, fine grained, little silt, brown to light brown, medium dense, damp to moist                      |                          |           |
| 3           |                     | 75%                | 8          |              |           |   |                          |           |
| 4           | S-2                 | 1.7 / 2.0          | 2 / 3      |              | BL        | SILT, some sand (fine), trace clay, brown, loose, damp  | #0                       | #0        |
| 5           |                     | 85%                | 12         |              |           |   |                          |           |
| 6           | S-3                 | 1.1 / 2.0          | 5 / 6      | 03           | BL        | SAND, fine grained, some silt, light brown, medium dense, damp  | #7                       |           |
| 7           |                     | 55%                | 8 / 8      |              |           |   |                          |           |
| 8           | S-4                 | 1.4 / 2.0          | 3 / 6      |              | BL        | SAND, fine grained, some silt, light brown, medium dense, damp  | #2                       | #2        |
| 9           |                     | 70%                | 7 / 9      |              |           |   |                          |           |
| 10          | S-5                 | 1.3 / 2.0          | 3 / 6      |              | BL        | SAND, fine grained, trace silt, yellowish brown, and white mottled, medium dense, damp Match to Sheet 2 | #5                       | #5        |
|             |                     | 65%                | 6          |              |           |   | #8                       |           |

DRILLING CO.: EMTCBAKER REP.: MARTIN G. TAUBEDRILLER: G. BARNESBORING NO.: 1-GW07SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-GW07

| 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   |                     |                      |            |              |           |  |                          |  |                |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  | Elevation      |
| 11              |                     |                      | 9<br>15    |              |           | Continued from Sheet 1   |                          |  |                |
| 12              | S-6                 | 1.4<br>2.0           | 6<br>10    | Ob           | BG        | SAND, fine grained, trace silt yellow, sh brown and white mottling (<12') to brown (>12'), medium dense, damp to wet | #5                       |  | BORING ADVANC. |
| 13              |                     | 70%                  | 11<br>13   |              |           |  |                          |  | ▽              |
| 14              | S-7                 | 1.2<br>2.0           | 7<br>14    |              | BG        | SAND, fine grained, little silt, light brownish gray, dense, wet   | #8                       |  |                |
| 15              |                     | 60%                  | 18<br>23   |              |           |  |                          |  |                |
| 16              | S-8                 | 0.3<br>2.0           | 6<br>7     |              | BG        | SAND, fine grained, some silt, light brownish gray, medium dense, wet  |                          |  |                |
| 17              |                     | 15%                  | 7<br>8     |              |           |  |                          |  |                |
| 18              | S-9                 | 1.8<br>2.0           | 6<br>8     |              | BG        | 17.0-17.7 SAND, fine grained some silt, light brownish gray, wet   | #5                       |  |                |
| 19              |                     | 90%                  | 9<br>7     |              |           | 17.7-19.0 SAND, fine to medium grained, trace silt, orange, medium dense, wet  |                          |  |                |
| 20              | S-10                | 1.2<br>2.0           | 4<br>5     |              | BG        | SAND, fine grained, trace silt, yellowish orange, medium dense, wet  | #7                       |  |                |
| 21              |                     | 60%                  | 7<br>7     |              |           | light brownish gray SILT from 20.8-21  |                          |  |                |
| 22              | S-11                | 1.5<br>2.0           | 4<br>4     |              | BG        | SAND, fine to coarse grained, trace to some silt, trace fine gravel, trace clay, light brownish gray, loose, wet     | #5                       |  |                |
| 23              |                     | 75%                  | 3<br>4     |              |           |  | #8                       |  |                |
| 24              | S-12                | 1.0<br>2.0           | 1<br>1     |              | BG        | SILT, some fine to coarse sand, trace clay, olivish gray, very loose, wet  | #7                       |  |                |
| 25              |                     | 50%                  | 2<br>2     |              |           |  |                          |  |                |
| 26              |                     |                      |            |              |           | END OF BORING<br>TOTAL DEPTH = 25.0'   | #5                       |  |                |
| 27              |                     |                      |            |              |           |  |                          |  |                |
| 28              |                     |                      |            |              |           |  |                          |  |                |
| 29              |                     |                      |            |              |           |  |                          |  |                |
| 30              |                     |                      |            |              |           | Match to Sheet 3   |                          |  |                |

DRILLING CO.: EMTC  
 DRILLER: G. BARNES

BAKER REP.: MARTIN G. TAUBE  
 BORING NO.: 1-GW07

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-GW08  
 COORDINATES: EAST: 2501598.15 NORTH: 332740.42  
 ELEVATION: SURFACE: 19.4 TOP OF PVC CASING: 22.31

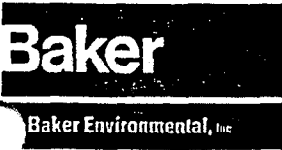
|                  |                  |        |                  |             |                |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |                |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>6 1/4" ID</u> |             | <u>4-12-94</u> | <u>25'</u>    | <u>SUNNY</u> | <u>13</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: BACKGROUND (BG) H<sub>2</sub>O = 0.2 PPM

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>10.1</u>       |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>10.1</u>    | <u>24.39</u>      |
| 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 Ft. MSL |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|--------------------------|---|-------------------|
| 1           | LAB 00              | 100%               | -          | 00                       | BG        | SAND-FINE TRACE SILT DRY. LT. GRAY  |                          |   |                   |
| 2           | S-1                 | 1.67<br>R          | 3<br>5     |                          | BG        | SAND-FINE TRACE SILT DAMP. GRAY. MED. DENSE.  | 0                        | 0 |                   |
| 3           |                     | 83%                | 7          |                          |           |   |                          |   |                   |
| 4           | S-2                 | 1.25<br>R          | 3<br>3     |                          | BG        | SAND-FINE TRACE SILT. DAMP. WHITE. LOOSE.   |                          |   |                   |
| 5           |                     | 63%                | 6          |                          |           |   |                          |   |                   |
| 6           | LAB S-3             | 8<br>R             | 5<br>6     | 03                       | BG        | SILT TRACE SAND-FINE DAMP. BROWN. MED DENSE   |                          |   |                   |
| 7           |                     | 100%               | 7          |                          |           |   | 2                        | 2 |                   |
| 8           | S-4                 | 1.5<br>R           | 4<br>4     |                          | BG        | SAND-FINE AND SILT DAMP. GRAY MOTTLED ORANGE LOOSE  | 7                        |   |                   |
| 9           |                     | 75%                | 4          |                          |           |   | 5                        | 5 |                   |
| 10          | S-5                 | 1.83<br>R          | 3<br>5     |                          | BG        | SILT LITTLE SAND-FINE TRACE CLAY. 4" SILT SOME CLAY. TRACE SAND. GRAY BROWN. MO. ST. MED DENSE Match to Sheet 2 |                          |   |                   |
|             |                     |                    |            |                          |           |   | 3                        |   |                   |

DRILLING CO.: EMTC BAKER REP.: KENNETH A. TUA  
 DRILLER: GENE BARNES BORING NO.: 1-GW08 SHEET 1 OF 2



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FLOOD REIFS CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-GW08

| 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                 | 92%                  | 4<br>5      |                          | BG        | Continued from Sheet  |                          |   |   |           |
| 12              | LAB S-6             | $\frac{1.83}{2}$     | 3<br>4<br>6 |                          | BG        | SAND-FINE LITTLE SILT<br>MOIST TO WET.<br>LT. GRAY<br>MED DENSE |                          |   |   |           |
| 13              |                     | 92%                  | 5           |                          |           | WATER @ 13'   | 5                        | 5 |   |           |
| 14              | S-7                 | $\frac{1.67}{2}$     | 2<br>3      |                          | BG        | SAND-FINE AND SILT,<br>WET. GRAY.<br>LOOSE                      |                          |   |   |           |
| 15              |                     | 83%                  | 4           |                          |           |   |                          | 8 |   |           |
| 16              | S-8                 | $\frac{1.67}{2}$     | 3<br>5<br>6 |                          | BG        | SAND-FINE LITTLE SILT<br>WET. GRAY,<br>MED DENSE.               |                          |   |   |           |
| 17              |                     | 83%                  | 7           |                          |           |   |                          |   |   |           |
| 18              | S-9                 | $\frac{1.35}{2}$     | 1<br>3<br>5 |                          | BG        | SAND-FINE TRACE SILT<br>WET. GRAY.<br>LOOSE.                    |                          |   |   |           |
| 19              |                     | 68%                  | 6           |                          |           |   |                          |   |   |           |
| 20              | S-10                | $\frac{1.08}{2}$     | 2<br>3<br>3 |                          | BG        | SAND-FINE LITTLE SILT<br>WET. GRAY.<br>LOOSE.                   |                          | 7 |   |           |
| 21              |                     | 59%                  | 4           |                          |           |   |                          |   |   |           |
| 22              | S-11                | $\frac{2}{2}$        | 3<br>4<br>4 |                          | BG        | SAND-FINE TRACE SILT<br>WET. GRAY.                              |                          |   | 8 |           |
| 23              |                     | 100%                 | 5           |                          |           |   |                          |   |   |           |
| 24              | S-12                | $\frac{1.33}{2}$     | 3<br>5<br>5 |                          | BG        | SAND-FINE SOME SILT<br>WET. GRAY TO GREEN.<br>MED DENSE.        |                          |   |   |           |
| 25              |                     | 67%                  | 6           |                          |           | END OF BORING 25'   |                          | 7 |   |           |
| 6               |                     |                      |             |                          |           |   |                          |   |   |           |
| 7               |                     |                      |             |                          |           |   |                          |   |   |           |
| 8               |                     |                      |             |                          |           |   |                          |   |   |           |
| 9               |                     |                      |             |                          |           |   |                          |   |   |           |
| 0               |                     |                      |             |                          |           | Match to Sheet  |                          |   |   |           |

DRILLING CO.: EMTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-GW-08 SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA REIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-6W09

COORDINATES: EAST: 2501628.22

NORTH: 333163.09

ELEVATION: SURFACE: 14.9

TOP OF PVC CASING: 17.62

|                  |                  |        |                  |             |                |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |                |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>6 1/4" ID</u> |             | <u>4-10-94</u> | <u>21</u>     | <u>SUNNY</u> | <u>8</u>         |      |
| LENGTH           | <u>2.0'</u>      |        | <u>5.0'</u>      |             |                |               |              |                  |      |
| TYPE             | <u>STD</u>       |        | <u>HSA</u>       |             |                |               |              |                  |      |
| HAMMER WT.       | <u>140#</u>      |        |                  |             |                |               |              |                  |      |
| FALL             | <u>30"</u>       |        |                  |             |                |               |              |                  |      |
| STICK UP         |                  |        |                  |             |                |               |              |                  |      |

REMARKS: BACKGROUND (BG) HNU = 0.2 PPM

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC 54H 40</u> | <u>0</u>       | <u>6.15</u>       |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC 54H 40</u> | <u>6.15</u>    | <u>20.41</u>      |
| 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 Ft. MSL |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|--------------------------|---|--|-------------------|
| 1           | LAB                 |                    |            |                          | BG        | SAND-FINE TRACE SILT DRY.                               |                          |   |  |                   |
| 2           | S-1                 | <u>1.67 / 2</u>    | <u>5</u>   |                          | BG        | SAND-FINE TRACE SILT DAMP. GRAY. 18" BROWN MED DENSE    | 0                        | 0 |  |                   |
| 3           |                     | <u>83%</u>         | <u>5</u>   |                          |           |   | 2                        | 7 |  |                   |
| 4           | S-2                 | <u>1.5 / 2</u>     | <u>5</u>   |                          | BG        | SAND-FINE TRACE SILT DAMP. LT. BROWN LOOSE              |                          | 2 |  |                   |
| 5           |                     | <u>75%</u>         | <u>3</u>   |                          |           |   |                          |   |  |                   |
| 6           | LAB S-3             | <u>1.33 / 2</u>    | <u>4</u>   |                          | BG        | SAND-FINE TRACE SILT DAMP. LT. GRAY LOOSE               |                          |   |  |                   |
| 7           |                     | <u>67%</u>         | <u>5</u>   |                          |           |   | 5                        | 5 |  |                   |
| 8           | S-4                 | <u>1.5 / 2</u>     | <u>7</u>   |                          | BG        | SAND-FINE LITTLE SILT MOIST. BROWN WATER @ 8' MED DENSE |                          | 8 |  |                   |
| 9           |                     | <u>75%</u>         | <u>7</u>   |                          |           |   |                          |   |  |                   |
| 10          | S-5                 | <u>2 / 2</u>       | <u>5</u>   |                          | BG        | SAND-FINE TRACE SILT WET LT. GRAY MED DENSE             |                          |   |  |                   |

Match to Sheet 2

DRILLING CO.: EMTL

BAKER REP.: KENNETH A. TUA

DRILLER: GENE BARNES

BORING NO.: 1-6W-09

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 FCLDA RIIFS MCB CAMP LEJUNE

S.O. NO.: 62470-231

BORING NO.: 1-6N-09

| 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                 | 100%                 | 6          |                          | BG        | Continued from Sheet 1  |                          |   |   |           |
| 12              | S-6                 | $\frac{1.83}{2}$     | 3          |                          | BG        | SAND-FINE TRACE SILT<br>WET. GRAY<br>LOOSE                    | 5                        | 8 |   |           |
| 13              |                     | 93%                  | 2          |                          |           |   |                          |   |   |           |
| 14              | S-7                 | $\frac{1.67}{2}$     | 3          |                          | BG        | CLAY SILT TRACE SAND-FINE<br>WET. BROWN MOTTLED ORANGE        |                          |   | 5 |           |
| 15              |                     | 83%                  | 3          |                          |           |   |                          |   |   |           |
| 16              | S-8                 | $\frac{1.67}{2}$     | 3          |                          | BG        | SILT TRACE SAND-FINE<br>WET. BROWN<br>MED DENSE               |                          |   | 7 |           |
| 17              |                     | 83%                  | 3          |                          |           |   |                          |   |   |           |
| 18              | S-9                 | $\frac{1.67}{2}$     | 1          |                          | BG        | SAND-FINE AND SILT<br>WET. BROWN<br>LOOSE                     |                          |   | 8 |           |
| 19              |                     | 83%                  | 8          |                          |           |   |                          |   |   |           |
| 20              | S-10                | $\frac{1.83}{2}$     | 1          |                          | BG        | SAND-FINE TRACE SAND-MEDIUM<br>WET. RUST COLOR.               |                          |   |   |           |
| 21              |                     | 42%                  | 2          |                          |           |   |                          |   | 7 |           |
| 21              |                     |                      |            |                          |           | END OF BORING 21'   |                          |   |   |           |
| 2               |                     |                      |            |                          |           |   |                          |   |   |           |
| 3               |                     |                      |            |                          |           |   |                          |   |   |           |
| 4               |                     |                      |            |                          |           |   |                          |   |   |           |
| 5               |                     |                      |            |                          |           |   |                          |   |   |           |
| 6               |                     |                      |            |                          |           |   |                          |   |   |           |
| 7               |                     |                      |            |                          |           |   |                          |   |   |           |
| 8               |                     |                      |            |                          |           |   |                          |   |   |           |
| 0               |                     |                      |            |                          |           |   |                          |   |   |           |

Match to Sheet

DRILLING CO.: EMTC

DRILLER: 62470-231

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-6N-09

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA RI/FS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-GW-10

COORDINATES: EAST: 2502105.18

NORTH: 333902.57

ELEVATION: SURFACE: 15.3

TOP OF PVC CASING: 18.07

|                  |                  |        |                  |             |                |               |                 |                  |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|-----------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |                |               |                 |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER         | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>6 1/4" ID</u> |             | <u>4-11-94</u> | <u>24</u>     | <u>OVERCAST</u> | <u>13</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: BACKGROUND (BG) HAV 3 0.3 PPM

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  |                  |           |                   |                |                   |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   |                  |           |                   |                |                   |
| D = Denison     | P = Piston |                  |           |                   |                |                   |
| N = No Sample   |            |                  |           |                   |                |                   |
|                 |            | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>9.12</u>       |
|                 |            | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>9.12</u>    | <u>23.7</u>       |

| 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 Ft. MSL |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|--------------------------|---|-------------------|
| 1           | LAB 00              | 100%               | —          | ∞                        | BG        | SAND-F TRACE S-I-T<br>DAMP. LT. GRAY.                               |                          |   |                   |
| 2           | S-1                 | 1.67/2             | 7          |                          | BG        | SAND-FINE TRACE S-I-T<br>DAMP. WHITE. MED DENSE                     |                          |   |                   |
| 3           |                     | 83%                | 14         |                          |           |   | 0                        | 0 |                   |
| 4           | S-2                 | 1.33/2             | 7          |                          | BG        | SAND-FINE TRACE S-I-T<br>DAMP. WHITE. MED DENSE                     |                          |   |                   |
| 5           |                     | 67%                | 5          |                          |           |   |                          |   |                   |
| 6           | LAB 5-3             | 1.41/2             | 9          | 03                       | BG        | SAND-FINE LITTLE S-I-T<br>MOIST. BROWN. MED DENSE                   | 2                        | 2 |                   |
| 7           |                     | 71%                | 9          |                          |           |   |                          |   |                   |
| 8           | S-4                 | 1.67/2             | 7          |                          | BG        | SAND-FINE AND S-I-T<br>MOIST. LT. BROWN<br>MED DENSE                | 7                        |   |                   |
| 9           |                     | 83%                | 12         |                          |           |   | 5                        | 5 |                   |
| 10          | S-5                 | 1.41/2             | 5          |                          | BG        | S-I-T LITTLE SAND-FINE<br>MOIST. YELLOW BROWN MOTTLED GRAY<br>LOOSE |                          |   |                   |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: GENE BARNES

BORING NO.: 1-GW-10

SHEET 1 OF 2



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA RIIPS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-GW-10

| 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 |
| 11              | S-5                 | 71%                   | 3          |                          | BG        | Continued from Sheet  |                          |   |   |           |
| 12              | LAB S-6             | $\frac{1.25}{2}$      | 3          |                          | BG        | SILT TRACE SAND-FINE TRACE CLAY<br>MOIST. ORANGE MOTTED GRAY.<br>LOOSE                |                          |   |   |           |
| 13              |                     | 63%                   | 4          |                          |           |   |                          |   |   |           |
| 14              | S-7                 | $\frac{1.67}{2}$      | 5          |                          | BG        | WATER @ 13"<br>SILT TRACE SAND-FINE TRACE CLAY<br>WET. YELLOW<br>MED DENSE            |                          | 8 |   |           |
| 15              |                     | 83%                   | 7          |                          |           |   |                          |   |   |           |
| 16              | S-8                 | $\frac{1.5}{2}$       | 3          |                          | BG        | SAND-FINE AND SILT TRACE SAND<br>COARSE. WET. ORANGE + GRAY<br>LOOSE                  |                          |   |   |           |
| 17              |                     | 75%                   | 3          |                          |           |   |                          |   |   |           |
| 18              | S-9                 | $\frac{1.83}{2}$      | 1          |                          | BG        | SAND-FINE LITTLE SILT.<br>WET. GREEN.<br>VERY LOOSE                                   |                          |   |   |           |
| 19              |                     | 92%                   | 1          |                          |           |   |                          | 7 |   |           |
| 20              | S-10                | $\frac{2}{2}$         | 1          |                          | BG        | SAND-FINE LITTLE SILT TRACE<br>SAND - C<br>WET. GREEN                                 |                          | 5 | 5 |           |
| 21              |                     | 100%                  | 1          |                          |           |   |                          |   |   |           |
| 22              | S-11                | $\frac{.82}{2}$       | 2          |                          | BG        | 6" SAND-FINE LITTLE SILT<br>GREEN. 2" WHITE MATERIAL WITH<br>"COTTAGE CHEESE" TEXTURE |                          |   | 8 |           |
| 23              |                     | 42%                   | 1          |                          |           |   |                          |   |   |           |
| 24              | N                   |                       | 2          |                          | BG        |   |                          |   | 7 |           |
| 24              |                     |                       |            |                          |           | END OF BORING 24  |                          |   |   |           |
| 5               |                     |                       |            |                          |           |   |                          |   |   |           |
| 6               |                     |                       |            |                          |           |   |                          |   |   |           |
| 7               |                     |                       |            |                          |           |   |                          |   |   |           |
| 8               |                     |                       |            |                          |           |   |                          |   |   |           |
| 0               |                     |                       |            |                          |           | Match to Sheet  |                          |   |   |           |

DRILLING CO.: EMTC

DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-GW-10

SHEET 2 OF 2

# Baker

Baker Environmental, Inc

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA RI/FS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-GW-11

COORDINATES: EAST: 2502786.13

NORTH: 334181.98

ELEVATION: SURFACE: 10.4

TOP OF PVC CASING: 13.18

|                  |                  |        |                  |             |                |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |                |               |              |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>6 1/4" ID</u> |             | <u>4-10-94</u> | <u>17</u>     | <u>SUNNY</u> | <u>4</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: BACKGROUND (BG) HND = 0.3 ppm

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  |                  |           |                   |                |                   |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   |                  |           |                   |                |                   |
| D = Denison     | P = Piston |                  |           |                   |                |                   |
| N = No Sample   |            |                  |           |                   |                |                   |
|                 |            | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>2.06</u>       |
|                 |            | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>8.06</u>    | <u>16.4</u>       |

| 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 Ft. MSL |
|-------------|---------------------|-------------------------|------------|--------------------------|-----------|--|--------------------------|---|---|-------------------|
| 1           | LAB                 |                         |            | 00                       | BG        | SAND-FINE SOME S.I.T. DAMP. GRAY                         | 1                        |   | 1 |                   |
| 2           | LAB S-1             | <u>1.67</u><br><u>2</u> | 4          | 01                       | BG        | SAND-FINE TRACE S.I.T. DAMP. BROWN. MED DENSE            | 2                        | 7 | 2 |                   |
| 3           |                     | <u>83%</u>              | 19         |                          |           |  |                          |   |   |                   |
| 4           | S-2                 | <u>1.67</u><br><u>2</u> | 3          |                          | BG        | SAND-FINE TRACE S.I.T. MOIST TO WET. WATER @ 4'          |                          |   |   |                   |
| 5           |                     | <u>83%</u>              | 6          |                          |           | BROWN MED DENSE.   |                          |   |   |                   |
| 6           | S-3                 | <u>1.5</u><br><u>2</u>  | 5          |                          | BG        | SAND-FINE LITTLE S.I.T. WET. BROWN MOTTLED GRAY. LOOSE   | 5                        | 8 | 5 |                   |
| 7           |                     | <u>75%</u>              | 4          |                          |           |  |                          |   |   |                   |
| 8           | S-4                 | <u>1.67</u><br><u>2</u> | 3          |                          | BG        | 3" CLAY TRACE SAND-FINE BROWN                            |                          |   |   |                   |
| 9           |                     | <u>33%</u>              | 4          |                          |           | 5" GRAVEL-FINE WHITE STIFF                               |                          |   |   |                   |
| 10          | S-5                 | <u>1.25</u><br><u>2</u> | 3          |                          | BG        | GRAVEL FINE TRACE S.I.T. TRACE CLAY WET. WHITE MED DENSE |                          |   |   |                   |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: GENE BARNES

BORING NO.: 1-GW-11

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FLDA REIRS CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 1-6W-11

| 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                 | 63%                  | 5<br>4     |                          | BG        | Continued from Sheet  | 8                        |   |           |
| 12              | S-6                 | $\frac{1.16}{2}$     | 13<br>29   |                          | BG        | 2" SHELL FRAGMENTS, LIMESTONE PIECES<br>SAND-FINE TRACE SITT.<br>WHITE, WET, VERY DENSE | 7                        |   |           |
| 13              |                     | 58%                  | 50<br>12   |                          |           |   |                          |   |           |
| 14              | S-7                 | $\frac{.92}{2}$      | 50<br>4    |                          | BG        | SHELL FRAGMENT SOME LIMESTONE<br>FRAGMENTS, TRACE SITT.<br>BROWN, WET, VERY DENSE       | 5                        | 8 | 5         |
| 15              |                     | 21%                  |            |                          |           |   |                          |   |           |
| 16              | S-8                 | $\frac{.58}{2}$      | 50<br>5    |                          | BG        | LIMESTONE FRAG TRACE SITT TRACE<br>SAND-FINE, SHELL FRAG.<br>BROWN, WET, VERY DENSE     |                          |   |           |
| 17              |                     | 29%                  |            |                          |           |   | 7                        |   |           |
| 17              | END OF BORING 17'   |                      |            |                          |           |   |                          |   |           |
| 8               |                     |                      |            |                          |           |   |                          |   |           |
| 9               |                     |                      |            |                          |           |   |                          |   |           |
| 0               |                     |                      |            |                          |           |   |                          |   |           |
| 1               |                     |                      |            |                          |           |   |                          |   |           |
| 2               |                     |                      |            |                          |           |   |                          |   |           |
| 3               |                     |                      |            |                          |           |   |                          |   |           |
| 4               |                     |                      |            |                          |           |   |                          |   |           |
| 5               |                     |                      |            |                          |           |   |                          |   |           |
| 6               |                     |                      |            |                          |           |   |                          |   |           |
| 7               |                     |                      |            |                          |           |   |                          |   |           |
| 8               |                     |                      |            |                          |           |   |                          |   |           |
| 0               | Match to Sheet      |                      |            |                          |           |   |                          |   |           |

DRILLING CO.: EMTL

DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-6W-11

SHEET 2 OF 2



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-GW-12  
 COORDINATES: EAST: 2503317.40 NORTH: 334050.00  
 ELEVATION: SURFACE: 13.8 TOP OF PVC CASING: 16.33

|                  |                  |        |                  |  |                |               |              |                  |      |
|------------------|------------------|--------|------------------|--|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |  | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SPLIT SPOON      | CASING           | AUGERS | CORE BARREL      |  |                |               |              |                  |      |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>6 1/4" ID</u> |  | <u>4-10-94</u> | <u>18</u>     | <u>Sunny</u> | <u>5</u>         |      |
| LENGTH           | <u>2.0'</u>      |        | <u>5.0'</u>      |  |                |               |              |                  |      |
| TYPE             | <u>STD</u>       |        | <u>HSA</u>       |  |                |               |              |                  |      |
| HAMMER WT.       | <u>170#</u>      |        |                  |  |                |               |              |                  |      |
| FALL             | <u>30"</u>       |        |                  |  |                |               |              |                  |      |
| STICK UP         |                  |        |                  |  |                |               |              |                  |      |

REMARKS: BACKGROUND (BG) HNU = 0.2

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE             | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC 5M 40</u> | <u>0</u>       | <u>3.13</u>       |
| T = Shelby Tube | W = Wash   |                  |           |                  |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC 5M 40</u> | <u>3.13</u>    | <u>17.39</u>      |
| 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 Ft. MSL |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|--------------------------|----------|-------------------|
|             |                     |                    |            |                          |           |   |                          |          |                   |
| 1           | <u>LAB 00</u>       |                    |            | <u>00</u>                | <u>BG</u> | <u>SAND-FINE TRACE SILT DAMP. BROWN</u>                       | <u>1</u>                 | <u>1</u> |                   |
| 2           | <u>LAB S-1</u>      | <u>1.67 / 2</u>    | <u>4</u>   | <u>4</u>                 | <u>01</u> | <u>SAND-FINE TRACE SILT DAMP. LT. BROWN LOOSE</u>             | <u>2</u>                 | <u>2</u> |                   |
| 3           |                     | <u>83%</u>         | <u>5</u>   |                          |           |   | <u>5</u>                 | <u>7</u> |                   |
| 4           | <u>S-2</u>          | <u>1.67 / 2</u>    | <u>3</u>   | <u>4</u>                 | <u>BG</u> | <u>SAND-FINE TRACE SILT MOIST. LT. BROWN MED DENSE</u>        | <u>8</u>                 |          |                   |
| 5           |                     | <u>83%</u>         | <u>11</u>  |                          |           | <u>WATER @ 5'</u>   |                          |          |                   |
| 6           | <u>S-3</u>          | <u>1.67 / 2</u>    | <u>11</u>  | <u>13</u>                | <u>BG</u> | <u>SAND-FINE TRACE SILT WET. GRAY. MED DENSE</u>              |                          |          |                   |
| 7           |                     | <u>83%</u>         | <u>19</u>  |                          |           |   |                          |          |                   |
| 8           | <u>S-4</u>          | <u>1.33 / 2</u>    | <u>7</u>   | <u>6</u>                 | <u>BG</u> | <u>SAND-FINE TRACE SILT WET. GRAY MED DENSE</u>               |                          |          |                   |
| 9           |                     | <u>67%</u>         | <u>10</u>  |                          |           |   |                          |          |                   |
| 10          | <u>S-5</u>          | <u>1.41 / 2</u>    | <u>2</u>   | <u>7</u>                 | <u>BG</u> | <u>SAND-FINE TRACE SILT WET. 7" BROWN. 10" GRAY MED DENSE</u> |                          |          |                   |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-GW-12

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA RIFES MCB CAMP LEJEUNE

S.O. NO.: 62470-251

BORING NO.: 1-GW-12

| 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                 | 71%                  | 6          |                          | BG        | Continued from Sheet  |                          |   |   |           |
| 12              | S-6                 | 81%                  | 3          |                          | BG        | SAND-FINE TRACE SILT<br>WET. GRAY<br>MED DENSE                  | 5                        | 8 | 5 |           |
| 13              |                     | 100%                 | 9          |                          |           |   |                          | 7 |   |           |
| 14              | S-7                 | 82%                  | 3          |                          | BG        | SAND-FINE TRACE SILT<br>WET. WHITE<br>MED DENSE                 |                          |   |   |           |
| 15              |                     | 100%                 | 4          |                          |           |   |                          | 8 |   |           |
| 16              | S-8                 | 82%                  | 2          |                          | BG        | SAND-FINE TRACE SAND - COARSE. GRAY<br>4" BROWN<br>WET<br>LOOSE |                          |   |   |           |
| 17              |                     | 100%                 | 3          |                          |           |   |                          |   |   |           |
| 18              | N                   |                      | 2          |                          |           |   |                          | 7 |   |           |
| 19              |                     |                      | 2          |                          |           | END OF BORING 17'   |                          |   |   |           |
| 20              |                     |                      |            |                          |           |   |                          |   |   |           |
| 21              |                     |                      |            |                          |           |   |                          |   |   |           |
| 22              |                     |                      |            |                          |           |   |                          |   |   |           |
| 23              |                     |                      |            |                          |           |   |                          |   |   |           |
| 24              |                     |                      |            |                          |           |   |                          |   |   |           |
| 25              |                     |                      |            |                          |           |   |                          |   |   |           |
| 26              |                     |                      |            |                          |           |   |                          |   |   |           |
| 27              |                     |                      |            |                          |           |   |                          |   |   |           |
| 28              |                     |                      |            |                          |           |   |                          |   |   |           |
| 29              |                     |                      |            |                          |           |   |                          |   |   |           |
| 30              |                     |                      |            |                          |           |   |                          |   |   |           |
| 31              |                     |                      |            |                          |           |   |                          |   |   |           |
| 32              |                     |                      |            |                          |           |   |                          |   |   |           |
| 33              |                     |                      |            |                          |           |   |                          |   |   |           |
| 34              |                     |                      |            |                          |           |   |                          |   |   |           |
| 35              |                     |                      |            |                          |           |   |                          |   |   |           |
| 36              |                     |                      |            |                          |           |   |                          |   |   |           |
| 37              |                     |                      |            |                          |           |   |                          |   |   |           |
| 38              |                     |                      |            |                          |           |   |                          |   |   |           |
| 39              |                     |                      |            |                          |           |   |                          |   |   |           |
| 40              |                     |                      |            |                          |           |   |                          |   |   |           |
| 41              |                     |                      |            |                          |           |   |                          |   |   |           |
| 42              |                     |                      |            |                          |           |   |                          |   |   |           |
| 43              |                     |                      |            |                          |           |   |                          |   |   |           |
| 44              |                     |                      |            |                          |           |   |                          |   |   |           |
| 45              |                     |                      |            |                          |           |   |                          |   |   |           |
| 46              |                     |                      |            |                          |           |   |                          |   |   |           |
| 47              |                     |                      |            |                          |           |   |                          |   |   |           |
| 48              |                     |                      |            |                          |           |   |                          |   |   |           |
| 49              |                     |                      |            |                          |           |   |                          |   |   |           |
| 50              |                     |                      |            |                          |           |   |                          |   |   |           |

Match to Sheet

DRILLING CO.: EMTC

DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-GW-12

SHEET 2 OF 2

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: Site 1 - FCLDA RI/FS MCB Camp LejeuneS.O. NO.: 19231BORING NO.: 1GW13COORDINATES: EAST: 2503931.1788NORTH: 332860.0163ELEVATION: SURFACE: 29.5TOP OF PVC CASING: 32.33

|                  |             |        |                |             |        |               |             |                  |                |
|------------------|-------------|--------|----------------|-------------|--------|---------------|-------------|------------------|----------------|
| RIG: MOBILE B-57 |             |        |                |             | DATE   | PROGRESS (FT) | WEATHER     | WATER DEPTH (FT) | TIME           |
| SIZE (DIAM.)     | SPLIT SPOON | CASING | AUGERS         | CORE BARREL |        |               |             |                  |                |
| 1-3/8" ID        |             |        | 3/4" / 1/4" ID |             | 4-9-94 | 0.0-33.0      | CLOUDY ±70° | 18.8             | Boring Advance |
| LENGTH           | 2.0'        |        | 5.0'           |             |        |               |             |                  |                |
| TYPE             | Std.        |        | HSA            |             |        |               |             |                  |                |
| HAMMER WT.       | 140#        |        |                |             |        |               |             |                  |                |
| FALL             | 30"         |        |                |             |        |               |             |                  |                |
| STICK UP         |             |        |                |             |        |               |             |                  |                |

REMARKS: Boring sampled to 33.0'. HNU BG = 0.2 ppm

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT)     | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|--------------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | 2"   | PVC Threaded - Sch. 40       | HAS BEEN C + 4.24' | 16.01 bgs         |
| T = Shelby Tube | W = Wash   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 16.01 bgs          | 30.37 bgs         |
| R = Air Rotary  | C = Core   |                  |      |                              |                    |                   |
| D = Denison     | P = Piston |                  |      |                              |                    |                   |
| N = No Sample   |            |                  |      |                              |                    |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|----------------|--------------|-----------|--|--------------------------|-----------|
| 1           |                     |                    |                | 00           | BG        | SAND, fine grained, little silt, trace roots (AUGERED 0.0'-1.0')                           |                          |           |
| 2           | S-1                 | 2.0 / 2.0          | 8 / 6 / 8 / 9  |              | BG        | SAND, fine grained, trace silt, yellowish brown to light brown, medium dense, damp         | #0                       |           |
| 3           |                     | 100%               |                |              |           |  |                          |           |
| 4           | S-2                 | 1.5 / 2.0          | 4 / 5 / 6 / 5  |              | BG        | SAND, fine grained, trace silt, light brown, medium dense, damp                            |                          |           |
| 5           |                     | 75%                |                |              |           |  | #0                       |           |
| 6           | S-3                 | 1.5 / 2.0          | 4 / 4 / 4 / 5  |              | BG        | SAND, fine grained, little silt, light brownish gray, loose, damp                          | #7                       |           |
| 7           |                     | 75%                |                |              |           |  |                          |           |
| 8           | S-4                 | 0.7 / 2.0          | 8 / 12 / 6 / 6 | 04           | BG        | SAND, fine grained, little silt, trace clay, light brownish gray, medium dense, damp       |                          |           |
| 9           |                     | 35%                |                |              |           |  |                          |           |
| 10          | S-5                 | 1.4 / 2.0          | 8 / 12         |              | BG        | SAND, fine grained, trace silt, light brownish gray to white, med. dense, Match to Sheet 2 | #0                       |           |

DRILLING CO.: EMTCBAKER REP.: MARTIN G. TAUBEDRILLER: G. BARNESBORING NO.: 1GW13SHEET 1 OF 3

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-GW13

| 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   |                     |                      |            |              |           |  |                          |    |    |                |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |    |    | Elevation      |
| 11              |                     |                      | 15         |              |           | Continued from Sheet 1   | #0                       | #0 |    |                |
| 12              | S-6                 | 1.4 / 2.0            | 8          |              | BG        | SAND fine grained, trace silt, white to light brown, medium dense, damp to moist                             | #2                       | #7 | #2 |                |
| 13              |                     | 70%                  | 11         |              |           |  |                          |    |    |                |
| 14              | S-7                 | 1.6 / 2.0            | 8          |              | BG        | SAND fine grained, little to some silt, light brownish gray, medium dense, damp to moist                     |                          |    | #5 |                |
| 15              |                     | 80%                  | 12         |              |           |  |                          |    |    |                |
| 16              | S-8                 | 1.6 / 2.0            | 8          | 08           | BG        | SILT and SAND fine grained, trace clay, light brownish gray to white, medium dense, damp                     |                          |    |    |                |
| 17              |                     | 80%                  | 7          |              |           |  |                          |    |    |                |
| 18              | S-9                 | 2.0 / 2.0            | 8          |              | BG        | SAND, fine grained, little to some silt, trace clay, light brownish gray, medium dense, damp to moist to wet | #5                       |    |    | BORING ADVANC. |
| 19              |                     | 100%                 | 11         |              |           |  |                          |    |    | ▽              |
| 20              | S-10                | 1.4 / 2.0            | 2          |              | BG        | SAND, fine grained, and SILT, light brownish gray to white, loose, wet                                       |                          |    |    |                |
| 21              |                     | 70%                  | 3          |              |           |  | #8                       |    |    |                |
| 22              | S-11                | 1.1 / 2.0            | 4          |              | BG        | SILT, little sand (fine), light brownish gray to white, loose, wet   |                          |    |    |                |
| 23              |                     | 55%                  | 4          |              |           |  |                          |    | #5 |                |
| 24              | S-12                | 1.6 / 2.0            | 3          |              | BG        | SILT little sand (fine), light brownish gray, loose, wet   |                          |    |    |                |
| 25              |                     | 80%                  | 4          |              |           | clay seam from 23.8' - 24.0'   |                          |    |    |                |
| 26              | S-13                | 1.4 / 2.0            | 8          |              | BG        | SAND, fine grained, little silt, yellowish orange, loose, wet  | #7                       |    |    |                |
| 27              |                     | 70%                  | 12         |              |           |  |                          |    |    |                |
| 28              | S-14                | 1.0 / 2.0            | 7          |              | BG        | SAND, fine to medium grained, trace silt, orangish brown, medium dense, wet                                  | #5                       |    |    |                |
| 29              |                     | 50%                  | 14         |              |           |  |                          |    |    |                |
| 30              |                     | 0.6 / 2.0            | 8          |              | BG        | SAND, fine grained, trace silt, orangish brown, loose, wet   | #8                       |    |    |                |
|                 |                     | 30%                  | 13         |              |           | Match to Sheet 3   |                          |    |    |                |

DRILLING CO.: EMTC

DRILLER: G. BAENES

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1GW13

SHEET 2 OF 3

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1-GW13

| 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   |                     |                      |            |              |  |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm)  | Visual Description  | Well Installation Detail | Elevation |
| 31              | 31.0                |                      | 5<br>3     |              |  | Continued from Sheet <u>2</u>                                     | #7 #5                    |           |
| 32              | S-15                | 1.0<br>2.0           | 2<br>3     |              | BG   | SAND fine to medium grained, trace silt, light brown, loose, wet. | #5                       |           |
| 33              | 33.0                | 50%                  | 5<br>4     |              |  | CLAY SEAM FROM 32.5'-32.7'  |                          |           |
| 34              |                     |                      |            |              |  | END OF BORING<br>TOTAL DEPTH = 33.0'                              |                          |           |
| 35              |                     |                      |            |              |  |   |                          |           |
| 36              |                     |                      |            |              |  |   |                          |           |
| 37              |                     |                      |            |              |  |   |                          |           |
| 38              |                     |                      |            |              |  |   |                          |           |
| 39              |                     |                      |            |              |  |   |                          |           |
| 40              |                     |                      |            |              |  |   |                          |           |
| 41              |                     |                      |            |              |  |   |                          |           |
| 42              |                     |                      |            |              |  |   |                          |           |
| 43              |                     |                      |            |              |  |   |                          |           |
| 44              |                     |                      |            |              |  |   |                          |           |
| 45              |                     |                      |            |              |  |   |                          |           |
| 46              |                     |                      |            |              |  |   |                          |           |
| 47              |                     |                      |            |              |  |   |                          |           |
| 48              |                     |                      |            |              |  |   |                          |           |
| 49              |                     |                      |            |              |  |   |                          |           |
| 50              |                     |                      |            |              |  |   |                          |           |

Match to Sheet \_\_\_\_\_

DRILLING CO.: EMTC

DRILLER: G. BARNES

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 1GW13 SHEET 3 OF 3



**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**

PROJECT: SITE 1 FCLDA RI/FS HCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-6w-16  
 COORDINATES: EAST: 2502017.42 NORTH: 332670.11  
 ELEVATION: SURFACE: 20.7 TOP OF PVC CASING: 23.71

|                  |                  |        |                  |             |                |               |             |                  |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|-------------|------------------|------|
| RIG: <u>B-57</u> |                  |        |                  |             |                |               |             |                  |      |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER     | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>1 1/4" ID</u> |             | <u>4-13-94</u> | <u>27</u>     | <u>RAIN</u> | <u>14</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: BACKGROUND (BG) HNU = 0.2 ppm

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>12.08</u>      |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>12.08</u>   | <u>26.39</u>      |
| 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 Ft. MSL |
|------------------|---------------------|--------------------|------------|--------------------------|-----------|--|--------------------------|----------|-------------------|
| 1                |                     |                    |            |                          |           | <u>1' FILL SAND-FINE TRACE SILT GRAY</u>           |                          |          |                   |
| 2                | <u>LAB 1</u>        | <u>100%</u>        | <u>1</u>   | <u>01</u>                | <u>BG</u> | <u>SAND-FINE LITTLE SILT DAMP. LT. BROWN</u>       |                          |          |                   |
| 3                |                     | <u>1.67</u>        | <u>4</u>   |                          |           | <u>SAND-FINE LITTLE SILT DAMP. LT. BROWN LOOSE</u> |                          |          |                   |
| 4                | <u>S-2</u>          | <u>2</u>           | <u>5</u>   |                          | <u>BG</u> |  |                          |          |                   |
| 5                |                     | <u>83%</u>         | <u>2</u>   |                          |           | <u>SAND-FINE LITTLE SILT DAMP. LT. BROWN LOOSE</u> |                          |          |                   |
| 6                | <u>S-3</u>          | <u>1/2</u>         | <u>5</u>   |                          | <u>BG</u> |  |                          |          |                   |
| 7                |                     | <u>50%</u>         | <u>5</u>   |                          |           | <u>SAND-FINE AND SILT DAMP. ORANGE LOOSE</u>       | <u>0</u>                 | <u>0</u> |                   |
| 8                | <u>LAB S-4</u>      | <u>1.67</u>        | <u>5</u>   | <u>04</u>                | <u>BG</u> |  |                          |          |                   |
| 9                |                     | <u>83%</u>         | <u>5</u>   |                          |           | <u>SAND-FINE TRACE SILT DAMP. ORANGE 4" WHITE</u>  | <u>2</u>                 | <u>2</u> |                   |
| 10               | <u>S-5</u>          | <u>1.67</u>        | <u>4</u>   |                          | <u>BG</u> |  |                          |          |                   |
| Match to Sheet 2 |                     |                    |            |                          |           |  | <u>5</u>                 | <u>5</u> |                   |

DRILLING CO.: ENTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-6w-16

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA RIIFS MCB CAMP LE JEUNE

S.O. NO.: 62470-221

BORING NO.: 1-GW-16

| 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                 | 83%                     | 5<br>7           |                          | BG        | Continued from Sheet  |                          |   |           |
| 12              | LAB S-6             | $\frac{1.25}{2}$<br>63% | 6<br>5<br>6<br>7 | OO                       | BG        | SAND-FINE LITTLE SILT<br>DAMP. BROWN<br>MED DENSE             | 7                        |   |           |
| 13              |                     | $\frac{1.67}{2}$        | 5<br>9           |                          |           | SAND-FINE SOME SILT<br>MOIST TO WET                           |                          |   |           |
| 14              | S-7                 | 83%                     | 10<br>11         |                          | BG        | WATER @ 14'   |                          |   |           |
| 15              |                     | $\frac{1.16}{2}$        | 9<br>11<br>13    |                          |           | SAND-FINE SOME SILT<br>WET. DARK BROWN<br>MED DENSE           | 8                        |   |           |
| 16              | S-8                 | 58%                     | 15               |                          | BG        |   |                          |   |           |
| 17              |                     | $\frac{2}{2}$           | 9<br>12<br>11    |                          |           | SAND-FINE LITTLE SILT<br>WET. WHITE<br>MED DENSE              | 5                        | 5 |           |
| 18              | S-9                 | 100%                    | 13               |                          | BG        |   |                          |   |           |
| 19              |                     | $\frac{1.25}{2}$        | 3<br>4           |                          |           | SAND-FINE TRACE SILT<br>WET. LT. BROWN<br>MED DENSE           |                          |   |           |
| 20              | S-10                | 63%                     | 8<br>17          |                          | BG        |   |                          |   |           |
| 21              |                     | $\frac{1.41}{2}$        | 3<br>5<br>7      |                          |           | SAND-FINE TRACE SILT<br>WET. WHITE<br>MED. DENSE              | 7                        |   |           |
| 22              | S-11                | 71%                     | 5<br>7           |                          | BG        |   |                          |   |           |
| 23              |                     | $\frac{1.5}{2}$         | 6<br>8<br>9      |                          |           | SAND-FINE LITTLE SILT<br>WET. WHITE/BROWN<br>MED DENSE        | 8                        |   |           |
| 24              | S-12                | 75%                     | 11               |                          | BG        |   |                          |   |           |
| 25              |                     |                         |                  |                          |           | NO SAMPLE   |                          |   |           |
| 26              | N                   |                         |                  |                          |           |   |                          |   |           |
| 27              |                     |                         |                  |                          |           |   | 7                        |   |           |
| 28              |                     |                         |                  |                          |           | END OF BORING @ 27'   |                          |   |           |
| 30              |                     |                         |                  |                          |           | Match to Sheet  |                          |   |           |

DRILLING CO.: EMTC

DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA

BORING NO.: 1-GW-16

SHEET 2 OF 2



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA RELFS MGB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-6W-17  
 COORDINATES: EAST: 2502796.83 NORTH: 333662.02  
 ELEVATION: SURFACE: 20.1 TOP OF PVC CASING: 23.00

|                  |                |        |                  |  |                |               |              |                  |      |
|------------------|----------------|--------|------------------|--|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-61</u> |                |        |                  |  | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SPLIT SPOON      | CASING         | AUGERS | CORE BARREL      |  |                |               |              |                  |      |
| SIZE (DIAM.)     | <u>3/8" ID</u> |        | <u>6 1/4" ID</u> |  | <u>4-19-94</u> | <u>25</u>     | <u>SUNNY</u> | <u>12'</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: BACKGROUND (BG) HNU = 0.2 PPM

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>10.04</u>      |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>10.04</u>   | <u>24.39</u>      |
| 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 Ft. MSL |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|--|--------------------------|---|-------------------|
| 1           | LAB 00              | 100%               | -          | 00                       | BG        | SAND-FINE LITTLE SILT<br>DRY. BROWN.                         |                          |   |                   |
| 2           | S-1                 | 2/2                | 6          |                          | BG        | SAND-FINE LITTLE SILT<br>DRY. BROWN<br>MED DENSE             |                          |   |                   |
| 3           |                     | 100%               | 13         |                          |           |  | 0                        | 0 |                   |
| 4           | S-2                 | 1.16/2             | 6          |                          | BG        | SAND-FINE LITTLE SILT<br>DRY. 10" BROWN 4" GRAY<br>MED DENSE |                          | 7 |                   |
| 5           |                     | 58%                | 13         |                          |           |  |                          |   |                   |
| 6           | S-3                 | 2/2                | 6          |                          | BG        | SAND-FINE SOME SILT<br>DRY. BLACK.<br>LOOSE                  |                          |   |                   |
| 7           |                     | 100%               | 5          |                          |           |  | 2                        | 2 |                   |
| 8           | S-4                 | 1.16/2             | 6          |                          | BG        | SAND-FINE SOME SILT<br>DAMP. BLACK<br>MED DENSE              |                          |   |                   |
| 9           |                     | 58%                | 5          |                          |           |  |                          |   |                   |
| 10          | LAB 5-5             | 1.67/2             | 5          | 05                       | BG        | SAND-FINE SOME SILT<br>LT. BROWN.<br>LOOSE                   | 5                        | 5 |                   |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-6W-17 SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FCLDA RELIEFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 1-GW-17

| 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              | LAB S-5             | 83%<br>2/2           | 3<br>3        |                          | BG        | Continued from Sheet   |                          |   |   |           |
| 12              | S-6                 | 100%<br>2/2          | 2<br>3        |                          | BG        | SAND-FINE LITHIC SILT.<br>WET. LT. BROWN.<br>WATER @ 12'       |                          |   |   |           |
| 13              |                     |                      | 3             |                          |           | 3" CLAY. GRAY  |                          |   |   |           |
| 14              | S-7                 | 100%<br>2/2          | 5<br>6        |                          | BG        | SAND-FINE SOME SILT TRACE<br>CLAY. WET. WHITE.<br>MED DENSE    |                          | 8 |   |           |
| 15              |                     |                      | 7             |                          |           |  |                          |   |   |           |
| 16              | S-8                 | 100%<br>2/2          | 2<br>2        |                          | BG        | SAND-FINE AND SILT<br>WET. ORANGE MOTTLED GRAY<br>LOOSE        |                          |   |   |           |
| 17              |                     |                      | 3             |                          |           |  |                          |   |   |           |
| 18              | S-9                 | 100%<br>1.25/2       | 1<br>1        |                          | BG        | SAND-FINE AND SILT.<br>WET. ORANGE<br>VERY LOOSE               |                          | 5 | 5 |           |
| 19              |                     |                      | 1/12          |                          |           |  |                          |   |   |           |
| 20              | S-10                | 63%<br>2/2           | 1<br>NOH<br>5 |                          | BG        | SAND-FINE AND SILT<br>WET. GRAY TRACE CLAY                     |                          |   | 7 |           |
| 21              |                     |                      | 15            |                          |           | 3" LIMESTONE FRAG. WHITE                                       |                          |   |   |           |
| 22              | S-11                | 5/2                  | 17<br>5       |                          | BG        | CEMENTED LIMESTONE<br>AND SHELL FRAG.<br>WHITE. WET.<br>LOOSE. |                          |   | 8 |           |
| 23              |                     |                      | 1             |                          |           |  |                          |   |   |           |
| 24              | S-12                | 25%<br>1.16/2        | 1<br>3        |                          | BG        | SAND-FINE SOME SILT.<br>WET. BROWN<br>LOOSE.                   |                          |   |   |           |
| 25              |                     |                      | 4             |                          |           |  |                          |   | 7 |           |
| 6               |                     |                      |               |                          |           | END OF BORING 25'  |                          |   |   |           |
| 7               |                     |                      |               |                          |           |  |                          |   |   |           |
| 8               |                     |                      |               |                          |           |  |                          |   |   |           |
| 0               |                     |                      |               |                          |           | Match to Sheet   |                          |   |   |           |

DRILLING CO.: EMTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 1-GW-17 SHEET 2 OF 2

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: Site 1 - FCLDA RI/FS MCB Camp LejeuneS.O. NO.: 19231BORING NO.: 1GW16DWCOORDINATES: EAST: 2501994.83NORTH: 332654.53ELEVATION: SURFACE: 20.8TOP OF PVC CASING: 23.50

|              |             |        |        |             |        |               |                       |                  |      |
|--------------|-------------|--------|--------|-------------|--------|---------------|-----------------------|------------------|------|
| RIG: #48     |             |        |        |             |        |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   | 8"     |        |             | 5-2-94 | 0-72'         | overcast, cool (50's) | 16.5             |      |
| LENGTH       | 2.0'        | 72.0'  |        |             | 5-4-94 | 72-122'       | overcast, cool (60's) |                  |      |
| TYPE         | Std.        | Steel  |        |             |        |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |        |             |        |               |                       |                  |      |
| FALL         | 30"         |        |        |             |        |               |                       |                  |      |
| STICK UP     |             |        |        |             |        |               |                       |                  |      |

REMARKS: Boring sampled to 122.0'. H2O background range .3 to .4 ppm.

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  |                  |      |                              |                |                   |
| T = Shelby Tube | W = Wash   |                  |      |                              |                |                   |
| R = Air Rotary  | C = Core   |                  |      |                              |                |                   |
| D = Denison     | P = Piston |                  |      |                              |                |                   |
| N = No Sample   |            |                  |      |                              |                |                   |
|                 |            | Well Casing      | 2"   | PVC Threaded - Sch. 40       | +2.5'          | 107.0'(bgs)       |
|                 |            | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 107.0'(bgs)    | 122.0'(bgs)       |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|--|--------------------------|-----------|
| 1           |                     | -                  | -          | 00           | .9        | SILTY SAND, fine grained<br>Brown to tan, v. loose, damp.  | <p>8" steel casing</p>   |           |
| 2           | S-1                 | 1.5<br>2.0         | 5<br>14    |              |           | <p>SAND, fine grained<br/>w/ trace silt. Brown<br/>to brownish orange,<br/>loose to medium<br/>dense to dense,<br/>damp.</p> <p>Match to Sheet 2</p> |                          |           |
| 3           |                     | 75%                | 24         |              |           |  |                          |           |
| 4           | S-2                 | 1.4<br>2.0         | 9<br>11    |              |           |  |                          |           |
| 5           |                     | 70%                | 7          |              |           |  |                          |           |
| 6           | S-3                 | 1.3<br>2.0         | 5<br>6     |              |           |  |                          |           |
| 7           |                     | 65%                | 3          |              |           |  |                          |           |
| 8           | S-4                 | .8<br>2.0          | 3<br>4     | 04           | -         |  |                          |           |
| 9           |                     | 40%                | 3          |              |           |  |                          |           |
| 10          | S-5                 | 1.2<br>2.0         | 4<br>5     |              |           |  |                          |           |

DRILLING CO.: Hardin-Huber, Inc.BAKER REP.: J. E. ZimmermanDRILLER: C. ChismBORING NO.: 1GW16DWSHEET 1 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: ZGWIGDW

| 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   |                     |                      |                      |              |           |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD           | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail | Elevation |
| 11              | S-5                 | 60%                  | 7<br>8               |              | 1.1       | Continued from Sheet 1   | <p>8" steel casing</p>   |           |
| 12              | S-6                 | 1.6<br>2.0<br>80%    | 11<br>8<br>8         |              | 2.0       | SAND, fine grained w/ trace silt. Yellowish brown w/ orange to tan to dark brown to brown, medium dense, damp to moist to wet. |                          |           |
| 13              |                     |                      |                      |              |           |  |                          |           |
| 14              | S-7                 | 1.5<br>2.0<br>75%    | 7<br>8<br>9          | 07           | -         |  |                          |           |
| 15              |                     |                      |                      |              |           |  |                          |           |
| 16              | S-8                 | 1.8<br>2.0<br>90%    | 5<br>5<br>5          |              | 1.3       |  |                          |           |
| 17              |                     |                      |                      |              |           |  |                          |           |
| 18              |                     |                      |                      |              |           |  |                          |           |
| 19              |                     |                      |                      |              |           |  |                          |           |
| 20              |                     |                      |                      |              |           |  |                          |           |
| 21              | S-9                 | .5<br>2.0<br>25%     | Woh<br>12"<br>3<br>4 |              | BG        | SAND, fine grained w/ trace silt. Light brown, loose, wet.   |                          |           |
| 22              |                     |                      |                      |              |           |  |                          |           |
| 23              |                     |                      |                      |              |           |  |                          |           |
| 24              |                     |                      |                      |              |           |  |                          |           |
| 25              |                     |                      |                      |              |           |  |                          |           |
| 26              | S-10                | .7<br>2.0<br>35%     | 10<br>16<br>13<br>16 |              | BG        | SAND, fine grained w/ trace silt. Light brown, medium dense, wet.  |                          |           |
| 27              |                     |                      |                      |              |           |  |                          |           |
| 28              |                     |                      |                      |              |           |  |                          |           |
| 29              |                     |                      |                      |              |           |  |                          |           |
| 30              |                     |                      |                      |              |           | Match to Sheet 3   |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J.E. Zimmerman

BORING NO.: ZGWIGDW

SHEET 2 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1GW16DW

| 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   |                     |                      |            |              |           |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail | Elevation |
| 31              | S-11                | 1.4                  | 3          |              | BG        | Continued from Sheet 2<br>SAND, fine to medium grained w/ trace silt. Light green w/ orange (oxidation), loose, wet. | 8" steel casing          |           |
| 32              |                     | 2.0                  | 3          |              |           |  |                          |           |
|                 |                     | 70%                  | 7          |              |           |  |                          |           |
| 33              |                     |                      |            |              |           |  |                          |           |
| 34              |                     |                      |            |              |           |  |                          |           |
| 35              | S-12                | .9                   | 3          |              | BG        | SAND, fine to medium grained w/ trace silt. Brown w/ orange (oxidation), medium dense, wet.                          |                          |           |
| 36              |                     | 2.0                  | 4          |              |           |  |                          |           |
|                 |                     | 45%                  | 10         |              |           |  |                          |           |
| 37              |                     |                      |            |              |           |  |                          |           |
| 38              |                     |                      |            |              |           |  |                          |           |
| 39              |                     |                      |            |              |           |  |                          |           |
| 40              | S-13                | .6                   | 5          |              | BG        | SAND, fine grained w/ some medium sand and trace silt. Light brown, medium dense, wet.                               |                          |           |
| 41              |                     | 2.0                  | 5          |              |           |  |                          |           |
|                 |                     | 30%                  | 4          |              |           |  |                          |           |
| 42              |                     |                      |            |              |           |  |                          |           |
| 43              |                     |                      |            |              |           |  |                          |           |
| 44              |                     |                      |            |              |           |  |                          |           |
| 45              | S-14                | 1.1                  | 9          |              | BG        | SAND, fine to medium grained w/ trace silt and some shell material. Light brown and white, dense, wet.               |                          |           |
| 46              |                     | 2.0                  | 21         |              |           |  |                          |           |
|                 |                     | 55%                  | 36         |              |           |  |                          |           |
| 47              |                     |                      |            |              |           |  |                          |           |
| 48              |                     |                      |            |              |           |  |                          |           |
| 49              |                     |                      |            |              |           |  |                          |           |
| 50              |                     |                      |            |              |           | Match to Sheet 4   |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 1GW16DW SHEET 3 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: ZGW160W

| 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   |                     |                      |                |              |  |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm)  | Visual Description  | Well Installation Detail | Elevation |
| 51              | S-15                | .9<br>2.0            | 3<br>19<br>33  |              | BG   | Continued from Sheet <u>3</u><br>SAND, fine to medium grained w/ trace silt. Gray, dense, wet           | 8" steel casing          |           |
| 52              |                     | 45%                  | 41             |              |  |   |                          |           |
| 53              |                     |                      |                |              |  |   |                          |           |
| 54              |                     |                      |                |              |  |   |                          |           |
| 55              | S-16                | .8<br>2.0            | 21<br>37<br>33 |              | BG   | SAND, fine to medium grained w/ trace silt and shell fragments. Brown and white, very dense, wet.       | #7                       |           |
| 56              |                     | 40%                  | 25             |              |  |   |                          |           |
| 57              |                     |                      |                |              |  |   |                          |           |
| 58              |                     |                      |                |              |  |   |                          |           |
| 59              |                     |                      |                |              |  |   |                          |           |
| 60              | S-17                | 1.0<br>2.0           | 25<br>33<br>43 |              | BG   | SAND, fine to medium w/ trace silt and shell material fragments. Dark green and white, very dense, wet. |                          |           |
| 61              |                     | 50%                  | 41             |              |  |   |                          |           |
| 62              |                     |                      |                |              |  |   |                          |           |
| 63              |                     |                      |                |              |  |   |                          |           |
| 64              |                     |                      |                |              |  |   |                          |           |
| 65              | S-18                | 1.2<br>2.0           | 15<br>25<br>18 |              | BG   | SILTY SAND, fine grained w/ some clay. Light green to green, dense to hard, wet to moist.               |                          |           |
| 66              |                     | 60%                  | 17             |              |  |   |                          |           |
| 67              |                     |                      |                |              |  |   |                          |           |
| 68              |                     |                      |                |              |  |   |                          |           |
| 69              |                     |                      |                |              |  |   |                          |           |
| 70              |                     |                      |                |              |  | Match to Sheet <u>5</u>   |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: ZGW160W SHEET 4 OF 7



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1GW160W

| 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   |                     |                      |            |              |  |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm)  | Visual Description   | Well Installation Detail | Elevation |
| 71              | S-19                | 1.7<br>2.0           | 12<br>16   |              | BG   | Continued from Sheet <u>4</u><br>SAND, fine grained w/ trace silt and some shell material fragments. Green to white, dense, wet. | 8" steel casing          | # 0       |
| 72              |                     | 85%                  | 25<br>24   |              |  |  |                          |           |
| 73              |                     |                      |            |              |  |  |                          |           |
| 74              |                     |                      |            |              |  |  |                          |           |
| 75              | S-20                | 1.3<br>2.0           | 9<br>16    |              | BG   | SAND, fine grained w/ trace silt and some shell material fragments. Green to white, dense, wet.                                  | # 7                      |           |
| 76              |                     |                      | 33<br>47   |              |  |  |                          |           |
| 77              |                     | 65%                  |            |              |  |  |                          |           |
| 78              |                     |                      |            |              |  |  |                          |           |
| 79              |                     |                      |            |              |  |  |                          |           |
| 80              | S-21                | .8<br>2.0            | 19<br>47   |              | BG   | SAND, fine grained w/ trace silt. Green, very dense, wet.  |                          |           |
| 81              |                     |                      | 51<br>5"   |              |  |  |                          |           |
| 82              |                     | 40%                  |            |              |  |  |                          |           |
| 83              |                     |                      |            |              |  |  |                          |           |
| 84              |                     |                      |            |              |  |  |                          |           |
| 85              | S-22                | NR                   | 23<br>51   |              | -  | NO RECOVERY  |                          |           |
| 86              |                     |                      | 6"         |              |  |  |                          |           |
| 87              |                     |                      |            |              |  |  |                          |           |
| 88              |                     |                      |            |              |  |  |                          |           |
| 89              |                     |                      |            |              |  |  |                          |           |
| 90              |                     |                      |            |              |  | Match to Sheet <u>6</u>  |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 1GW160W SHEET 5 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1ZGW16DW

| 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   |                     |                      |            |              |           |  |                          |  |    |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  |    | Elevation |
| 91              | S-23                | .5                   | 29         | BG           |           | Continued from Sheet <u>5</u><br>SAND, fine grained w/ trace silt and shell fragments. Green to white to gray, dense, wet. | #0                       |  |    |           |
| 92              |                     | 2.0                  | 51/4"      |              |           |  |                          |  |    |           |
| 93              |                     | 25%                  |            |              |           |  |                          |  |    |           |
| 94              |                     |                      |            |              |           |  |                          |  |    |           |
| 95              |                     |                      |            |              |           |  | #7                       |  |    |           |
| 96              | S-24                | NR                   | 24         |              | -         | NO RECOVERY  |                          |  |    |           |
| 97              |                     |                      | 51/5"      |              |           |  |                          |  | #0 |           |
| 98              |                     |                      |            |              |           |  |                          |  |    |           |
| 99              |                     |                      |            |              |           |  |                          |  |    |           |
| 100             |                     |                      |            |              |           | SAND, fine grained w/ trace silt and shell fragments   | #2                       |  |    |           |
| 101             | S-25                | 1.8                  | 15         | BG           |           | (0 to .1') FOSSILIFEROUS LIMESTONE (.1' to .2') (Castle Lane Fm) SAND, fine grained w/ trace silt and shell fragments      | #2                       |  |    |           |
| 102             |                     | 2.0                  | 16         |              |           |  |                          |  |    |           |
| 103             |                     | 90%                  | 33         |              |           | Micrite is cement (matrix only). Light green and white dense, wet.   | #7                       |  |    |           |
| 104             |                     |                      |            |              |           |  | #5                       |  |    |           |
| 105             |                     |                      |            |              |           |  |                          |  |    |           |
| 106             | S-26                | .7                   | 21         | BG           |           | SAND, fine to medium grained w/ trace silt and shell fragments. Green and white, dense, wet.                               | #8                       |  |    |           |
| 107             |                     | 2.0                  | 51/5"      |              |           |  |                          |  |    |           |
| 108             |                     | 35%                  |            |              |           |  |                          |  |    |           |
| 109             |                     |                      |            |              |           |  |                          |  |    |           |
| 110             |                     |                      |            |              |           | Match to Sheet <u>7</u>  | #5                       |  |    |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 1ZGW16DW SHEET 6 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: IGWIGDW

| 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   |                     |                      |            |              |           |  |                          |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  | Elevation |
| 111             | S-27                | .5<br>2.0            | 27         |              | BG        | Continued from Sheet 6<br>SAND, fine grained w/<br>trace silt and shell<br>fragments. Green<br>and white, dense,<br>wet. |                          |  |           |
| 112             |                     | 25%                  | 5/5"       |              |           |  |                          |  |           |
| 113             |                     |                      |            |              |           |  |                          |  |           |
| 114             |                     |                      |            |              |           |  |                          |  |           |
| 115             | S-28                | .8<br>2.0            | 27         |              | BG        | SAND, fine grained<br>w/ trace silt and<br>some shell fragments<br>Greenish gray and<br>white, dense, wet.               |                          |  |           |
| 117             |                     | 40%                  | 5/4"       |              |           |  |                          |  |           |
| 118             |                     |                      |            |              |           |  |                          |  |           |
| 119             |                     |                      |            |              |           |  |                          |  |           |
| 120             | S-29                | 1.0<br>2.0           | 19         |              | BG        | SAND, fine grained<br>w/ trace silt and<br>shell fragments.<br>Green and white, dense,<br>wet.                           |                          |  |           |
| 121             |                     | 22                   | 27         |              |           |  |                          |  |           |
| 122             |                     | 50%                  | 5/5"       |              |           |  |                          |  |           |
| 3               |                     |                      |            |              |           | End of Boring<br>TD 122.0'   |                          |  |           |
| 4               |                     |                      |            |              |           |  |                          |  |           |
| 5               |                     |                      |            |              |           |  |                          |  |           |
| 6               |                     |                      |            |              |           |  |                          |  |           |
| 7               |                     |                      |            |              |           |  |                          |  |           |
| 8               |                     |                      |            |              |           |  |                          |  |           |
| 9               |                     |                      |            |              |           |  |                          |  |           |
| 0               |                     |                      |            |              |           |  |                          |  |           |

Match to Sheet \_\_\_\_\_

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: IGWIGDW SHEET 7 OF 7

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1GW17DW

COORDINATES: EAST: 2502792.01

NORTH: 333685.99

ELEVATION: SURFACE: 19.1

TOP OF PVC CASING: 21.91

|              |             |        |        |             |        |               |                       |                  |      |
|--------------|-------------|--------|--------|-------------|--------|---------------|-----------------------|------------------|------|
| RIG: #48     |             |        |        |             |        |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   | 8"     |        |             | 5-5-94 | 0-39'         | overcast, cool (50's) | 12.5             |      |
| LENGTH       | 2.0'        | 39.0'  |        |             | 5-7-94 | 39'-122'      | clear, mild (60's)    |                  |      |
| TYPE         | Std.        | steel  |        |             |        |               |                       |                  |      |
| HAMMER WT.   | 140#        |        |        |             |        |               |                       |                  |      |
| FALL         | 30"         |        |        |             |        |               |                       |                  |      |
| STICK UP     |             |        |        |             |        |               |                       |                  |      |

REMARKS: Boring sampled to 122.0'. H<sub>2</sub>O background range .2 to .4 ppm

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | 2"   | PVC Threaded - Sch. 40       | + 2.5'         | 105.0' (bgs)      |
| T = Shelby Tube | W = Wash   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 105.0' (bgs)   | 120.0' (bgs)      |
| R = Air Rotary  | C = Core   |                  |      |                              |                |                   |
| D = Denison     | P = Piston |                  |      |                              |                |                   |
| N = No Sample   |            |                  |      |                              |                |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|--------------------------|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ trace gravel. Brown, very loose, damp.    |                          |           |
| 2           | S-1                 | .9 / 2.0           | 13 / 24    |              | BG        | SAND, fine grained w/ trace silt and gravel. Brown, damp.             |                          |           |
| 3           |                     | 45%                | 4"         |              |           |   |                          |           |
| 4           | S-2                 | 1.5 / 2.0          | 4 / 5      |              | 1.2       | SAND, fine grained w/ trace silt. Brown, medium dense to loose, damp. |                          |           |
| 5           |                     | 75%                | 4          |              |           |   |                          |           |
| 6           | S-3                 | .6 / 2.0           | 3 / 3      |              | 1.2       |   |                          |           |
| 7           |                     | 30%                | 4          |              |           |   |                          |           |
| 8           | S-4                 | .5 / 2.0           | 2 / 2      |              | .7        |   |                          |           |
| 9           |                     | 25%                | 2          |              |           |   |                          |           |
| 10          | S-5                 | 1.3 / 2.0          | 3 / 2      | 05           | -         | SAND, fine grained w/ trace silt and some CLAY. Match to Sheet 2      |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: J. E. Zimmerman

DRILLER: C. Chism

BORING NO.: 1GW17DW

SHEET 1 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: IGW17DW

| 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   |                     |                      |            |              |  |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm)  | Visual Description  | Well Installation Detail | Elevation |
| 11              | 11.0                | S-5                  | 65%        | 2<br>2       | OS   | -   | <p>8" steel casing</p>   |           |
| 12              |                     |                      | 1.1<br>2.0 | 4<br>3       |  |   |                          |           |
| 13              | 13.0                | S-6                  | 55%        | 2<br>3       |  | Continued from Sheet 1 Light gray, light brown, loose to medium stiff, moist SAND, fine grained w/ trace silt. Light brown, moist to wet. |                          |           |
| 14              |                     |                      |            |              |  |   |                          |           |
| 15              | 15.0                |                      |            |              |  |   |                          |           |
| 16              |                     | S-7                  | 1.2<br>2.0 | 2<br>3       | BG   | SAND, fine to medium grained w/ trace silt and some SILTY CLAY. Brown to grayish green, loose to medium stiff, wet.                       |                          |           |
| 17              | 17.0                |                      | 60%        | 2            |  |   |                          |           |
| 18              |                     |                      |            |              |  |   |                          |           |
| 19              |                     |                      |            |              |  |   |                          |           |
| 20              | 20.0                |                      |            |              |  |   |                          |           |
| 21              |                     | S-8                  | NR         | 2<br>3       |  | NO RECOVERY   |                          |           |
| 22              | 22.0                |                      |            | 2            |  |   |                          |           |
| 23              |                     |                      |            |              |  |   |                          |           |
| 24              |                     |                      |            |              |  |   |                          |           |
| 25              | 25.0                |                      |            |              |  |   |                          |           |
| 26              |                     | S-9                  | .7<br>2.0  | 16<br>23     | BG   | FOSSILIFEROUS LIMESTONE w/ shell fragments and micrite cement acting as matrix only. Gray and white, medium dense, wet.                   |                          |           |
| 27              | 27.0                |                      | 35%        | 9<br>3       |  |   |                          |           |
| 28              |                     |                      |            |              |  |   |                          |           |
| 29              |                     |                      |            |              |  |   |                          |           |
| 30              | 30.0                |                      |            |              |  | Match to Sheet 3  |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: IGW17DW

SHEET 2 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1GW17DW

| 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   |                     |                      |                |              |  |  |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm)  | Visual Description   | Well Installation Detail                   | Elevation |
| 31              | S-10                | —                    | —              |              |  | Continued from Sheet <u>2</u><br>No sampling due to instability of formation during drilling | <p>8" steel casing</p> <p>#7</p> <p>#0</p> |           |
| 32              | 32.0                |                      |                |              |  |  |  |           |
| 33              |                     |                      |                |              |  |  |  |           |
| 34              |                     |                      |                |              |  |  |  |           |
| 35              |                     |                      |                |              |  |  |  |           |
| 36              |                     |                      |                |              |  |  |  |           |
| 37              | 37.0                |                      |                |              |  |  |  |           |
| 38              | S-11                | 1.3<br>2.0           | 19<br>25<br>37 |              | BG   | SAND, fine grained w/ trace silt and shell fragments. Brown, very dense, wet                 |  |           |
| 39              | 39.0                | 65%                  | 41             |              |  |  |  |           |
| 40              |                     |                      |                |              |  |  |  |           |
| 41              |                     |                      |                |              |  |  |  |           |
| 42              |                     |                      |                |              |  |  |  |           |
| 43              |                     |                      |                |              |  |  |  |           |
| 44              |                     |                      |                |              |  |  |  |           |
| 45              | 45.0                |                      |                |              |  |  |  |           |
| 46              | S-12                | 1.1<br>2.0           | 17<br>26<br>26 |              | 1.0  | SAND, fine to medium grained w/ trace silt. Gray, very dense, wet.                           |  |           |
| 47              | 47.0                | 55%                  | 27             |              |  |  |  |           |
| 48              |                     |                      |                |              |  |  |  |           |
| 49              |                     |                      |                |              |  |  |  |           |
| 50              | 50.0                |                      |                |              |  | Match to Sheet <u>4</u>  |  |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 1GW17DW SHEET 3 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1GW17DW

| 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   |                     |                      |                |              |           |  |                          |  |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  |  | Elevation |
| 51              | S-13                | 1.4<br>2.0           | 14<br>15<br>18 |              | 113       | Continued from Sheet <u>3</u><br>SAND, fine to medium grained w/ trace silt and shell fragments. Micrite cement is matrix. (bottom 1/2 of sample only) | #0                       |  |  |           |
| 52              | 52.0                | 70%                  | 36             |              |           |  |                          |  |  |           |
| 53              |                     |                      |                |              |           |  |                          |  |  |           |
| 54              |                     |                      |                |              |           |  |                          |  |  |           |
| 55              | 55.0                |                      |                |              |           |  |                          |  |  |           |
| 56              | S-14                | .9<br>2.0            | 19<br>25<br>28 |              | 113       | SAND, fine to medium grained w/ trace silt. Gray, very dense, wet  | #7                       |  |  |           |
| 57              | 57.0                | 45%                  | 30             |              |           |  |                          |  |  |           |
| 58              |                     |                      |                |              |           |  |                          |  |  |           |
| 59              |                     |                      |                |              |           |  |                          |  |  |           |
| 60              | 60.0                |                      |                |              |           |  |                          |  |  |           |
| 61              | S-15                | 1.4<br>2.0           | 19<br>28<br>33 |              | BG        | SAND, fine to medium grained w/ trace silt. Greenish gray, very dense, wet.  |                          |  |  |           |
| 62              | 62.0                | 70%                  | 51             |              |           |  |                          |  |  |           |
| 63              |                     |                      |                |              |           |  |                          |  |  |           |
| 64              |                     |                      |                |              |           |  |                          |  |  |           |
| 65              | 65.0                |                      |                |              |           |  |                          |  |  |           |
| 66              | S-16                | 1.9<br>2.0           | 7<br>9<br>14   |              | BG        | SAND, fine to medium grained w/ trace silt and shell fragments. Greenish gray, very dense, wet.  | #0                       |  |  |           |
| 67              | 67.0                | 95%                  | 18             |              |           |  |                          |  |  |           |
| 68              |                     |                      |                |              |           |  |                          |  |  |           |
| 69              |                     |                      |                |              |           |  |                          |  |  |           |
| 70              | 70.0                |                      |                |              |           | Match to Sheet <u>5</u>  |                          |  |  |           |

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 1GW17DW

| 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   |                     |                      |            |              |           |  |                          |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  | Elevation |
| 71              | S-17                | 1.9                  | 19         | BG           |           | Continued from Sheet <u>4</u><br>SAND, fine to medium grained w/ trace silt and shell fragments. Greenish gray, very dense, wet. | 0                        |  |           |
| 72              |                     | 2.0                  | 23         |              |           |  |                          |  |           |
| 73              |                     | 95%                  | 32         |              |           |  |                          |  |           |
| 74              |                     |                      |            |              |           |  |                          |  |           |
| 75              | S-18                | .9                   | 29         | BG           |           | SAND fine grained w/ trace silt and shell fragment. Greenish gray to gray, very dense, wet.                                      | 1                        |  |           |
| 76              |                     | 2.0                  | 43         |              |           |  |                          |  |           |
| 77              |                     | 45%                  | 5 1/5"     |              |           |  |                          |  |           |
| 78              |                     |                      |            |              |           |  |                          |  |           |
| 79              | S-19                | .5                   | 33         | BG           |           | SAND, fine grained w/ trace silt and shell fragments. Greenish gray to gray, very dense, wet.                                    |                          |  |           |
| 80              |                     | 2.0                  | 5 1/5"     |              |           |  |                          |  |           |
| 81              |                     | 25%                  |            |              |           |  |                          |  |           |
| 82              |                     |                      |            |              |           |  |                          |  |           |
| 83              | S-20                | .7                   | 43         | BG           |           | SAND, fine grained w/ trace silt. Greenish gray, very dense, wet.  | 0                        |  |           |
| 84              |                     | 2.0                  | 5 1/5"     |              |           |  |                          |  |           |
| 85              |                     | 35%                  |            |              |           |  |                          |  |           |
| 86              |                     |                      |            |              |           |  |                          |  |           |
| 87              |                     |                      |            |              |           |  |                          |  |           |
| 88              |                     |                      |            |              |           |  |                          |  |           |
| 89              |                     |                      |            |              |           |  |                          |  |           |
| 90              |                     |                      |            |              |           | Match to Sheet <u>6</u>  |                          |  |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 1GW17DW SHEET 5 OF 7



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 2GW17DW

| 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   |                     |                      |                |              |           |  |                          |    |    |                  |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |    |    | Elevation        |
| 91              | S-21                | .6<br>2.0            | 41             | BG           |           | Continued from Sheet <u>5</u><br>SAND, fine grained w/trace silt. Greenish gray, very dense, wet                                 | #0                       | #7 | #0 |                  |
| 92              |                     | 30%                  | 51<br>5"       |              |           |  |                          |    |    |                  |
| 93              |                     |                      |                |              |           |  |                          |    |    |                  |
| 94              |                     |                      |                |              |           |  |                          |    |    |                  |
| 95              | S-22                | 1.1<br>2.0           | 47             | BG           |           | SAND, fine to medium grained w/trace silt and shell fragments. Gray, very dense, wet.  | #5                       | #7 |    | Bentonite Slurry |
| 96              |                     | 55%                  | 51<br>3"       |              |           |  |                          |    |    |                  |
| 97              |                     |                      |                |              |           |  |                          |    |    |                  |
| 98              |                     |                      |                |              |           |  |                          |    |    |                  |
| 99              |                     |                      |                |              |           |  |                          |    |    |                  |
| 100             | S-23                | 1.0<br>2.0           | 37             | BG           |           | SAND, fine grained w/trace silt and shell fragments. Micrite is cement acting as matrix. Light green and white, very dense, wet. | #5                       | #7 |    |                  |
| 101             |                     | 50%                  | 48<br>51<br>4" |              |           |  |                          |    |    |                  |
| 102             |                     |                      |                |              |           |  |                          |    |    |                  |
| 103             |                     |                      |                |              |           |  |                          |    |    |                  |
| 104             |                     |                      |                |              |           |  |                          |    |    |                  |
| 105             | S-24                | 1.0<br>2.0           | 38             | BG           |           | SAND, fine grained w/trace silt and shell fragments (0 to .1') FOSSILIFEROUS LIMESTONE (.1' to .2') (Castle Hill Fm.).           | #8                       |    |    |                  |
| 106             |                     | 50%                  | 51<br>2"       |              |           |  |                          |    |    |                  |
| 107             |                     |                      |                |              |           |  |                          |    |    |                  |
| 108             |                     |                      |                |              |           |  |                          |    |    |                  |
| 109             |                     |                      |                |              |           |  |                          |    |    |                  |
| 110             |                     |                      |                |              |           | SAND, fine grained w/trace silt and shell fragments. Greenish gray and white. Match to Sheet <u>7</u>                            | #5                       |    |    |                  |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 2GW17DW SHEET 6 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: IGW17DW

| 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   |                     |                      |            |              |           |  |                          |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  | Elevation |
| 111             | S-25                | .8                   | 102        |              | BG        | Continued from Sheet <u>6</u><br>SAND, fine grained w/ trace silt and shell fragments. Greenish gray and white, very dense, wet. | #5                       |  |           |
| 112             |                     | 2.0                  | 5"         |              |           |  |                          |  |           |
| 113             |                     | 40%                  |            |              |           |  |                          |  |           |
| 114             |                     |                      |            |              |           |  |                          |  |           |
| 115             |                     |                      |            |              |           |  |                          |  |           |
| 116             | S-26                | 1.0                  | 39         |              | BG        | SAND, fine grained w/ trace silt and shell fragments. Green and white, very dense, wet.  | #8                       |  |           |
| 117             |                     | 2.0                  | 48         |              |           |  |                          |  |           |
| 118             |                     | 50%                  | 5 1/4"     |              |           |  |                          |  |           |
| 119             |                     |                      |            |              |           |  |                          |  |           |
| 120             |                     |                      |            |              |           |  |                          |  |           |
| 121             | S-27                | 2.0                  | 22         |              | BG        | SAND, fine to medium grained w/ trace silt and shell fragments. Greenish gray and white, very dense, wet.                        | 5"                       |  |           |
| 122             |                     | 2.0                  | 40         |              |           |  |                          |  |           |
| 123             |                     | 100%                 | 50         |              |           |  |                          |  |           |
| 124             |                     |                      | 5 1/2"     |              |           |  |                          |  |           |
| 3               |                     |                      |            |              |           | End of Boring<br>TD 122.0'   |                          |  |           |
| 4               |                     |                      |            |              |           |  |                          |  |           |
| 5               |                     |                      |            |              |           |  |                          |  |           |
| 6               |                     |                      |            |              |           |  |                          |  |           |
| 7               |                     |                      |            |              |           |  |                          |  |           |
| 8               |                     |                      |            |              |           |  |                          |  |           |
| 9               |                     |                      |            |              |           |  |                          |  |           |
| 0               |                     |                      |            |              |           |  |                          |  |           |

Match to Sheet \_\_\_\_\_

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J.E. Zimmerman

BORING NO.: IGW17DW SHEET 7 OF 7

**SITE 28**

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# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 PLURA REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-GW-1  
 COORDINATES: EAST: 2498347.1500 NORTH: 331825.7480  
 ELEVATION: SURFACE: 4.80 TOP OF PVC CASING: 7.34

|                  |                  |        |                  |             |                |               |              |                  |      |
|------------------|------------------|--------|------------------|-------------|----------------|---------------|--------------|------------------|------|
| RIG: <u>B-61</u> |                  |        |                  |             | DATE           | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
|                  | SPLIT SPOON      | CASING | AUGERS           | CORE BARREL |                |               |              |                  |      |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> |        | <u>6 1/4" ID</u> |             | <u>4-20-94</u> | <u>17</u>     | <u>SUNNY</u> | <u>3</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: Background (BG) HNU = 0.2 ppm

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>2.0</u>        |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>2.0</u>     | <u>16.39</u>      |
| 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 Ft. MSL |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|--------------------------|----------|----------|-------------------|
|             |                     |                    |            |                          |           |   |                          |          |          |                   |
| 1           | <u>LAB 50</u>       | <u>100%</u>        |            |                          | <u>BG</u> | <u>SAND-FINE LITHE SITT MUCH DEBRIS BLACK.</u>              | <u>1</u>                 | <u>1</u> |          |                   |
| 2           | <u>LAB 5-1</u>      | <u>.83/2</u>       | <u>27</u>  |                          | <u>BG</u> | <u>FILL SAND-FINE AND GRAVEL METAL DEBRIS. WHITE. PROT.</u> | <u>2</u>                 | <u>7</u> | <u>2</u> |                   |
| 3           |                     | <u>42%</u>         | <u>18</u>  |                          |           | <u>WATER @ 3'</u>   | <u>5</u>                 | <u>8</u> | <u>5</u> |                   |
| 4           | <u>5-2</u>          | <u>.83/2</u>       | <u>NA</u>  |                          | <u>BG</u> | <u>SAND-MEDIUM AND ORGANIC SITT. BLACK. WET.</u>            |                          |          |          |                   |
| 5           |                     | <u>42%</u>         |            |                          |           |   |                          |          |          |                   |
| 6           | <u>5-3</u>          | <u>.25/R</u>       | <u>13</u>  |                          | <u>BG</u> | <u>ORGANIC SITT. SOME SAND-MED. BLACK. WET. MED DENSE.</u>  |                          |          |          |                   |
| 7           |                     | <u>11%</u>         | <u>8</u>   |                          |           |   |                          |          |          |                   |
| 8           | <u>5-4</u>          | <u>.67/2</u>       | <u>5</u>   |                          | <u>BG</u> | <u>SAND-FINE TRACE SITT WET. GRAY. MED DENSE.</u>           |                          |          |          |                   |
| 9           |                     | <u>38%</u>         | <u>21</u>  |                          |           |   |                          |          |          |                   |
| 10          | <u>5-5</u>          | <u>.67/2</u>       | <u>7</u>   |                          | <u>BG</u> | <u>SITT. LITHE SAND-FINE WET. GRAY. LOOSE</u>               |                          |          |          |                   |

Match to Sheet 2

DRILLING CO.: EMTC  
 DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-GW-1

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 1 FLDA RIIFs MCB CAMP LEJEUNE

S.O. NO.: 62470-281

BORING NO.: 28-GW-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-5                 | 33%                  | 3          |                          | BG  | Continued from Sheet   | 8                        |   |           |
| 12              | S-6                 | 1/2                  | 5          |                          | BG  | SILT AND SAND-FINE WET. GRAY. MED DENSE                                  | 5                        | 7 | 5         |
| 13              |                     | 50%                  | 12         |                          |   |  |                          |   |           |
| 14              | S-7                 | 1.67/2               | 2          |                          | BG  | SAND-FINE AND SILT WET. GRAY. LOOSE.                                     |                          | 8 |           |
| 15              |                     | 83%                  | 6          |                          |   |  |                          |   |           |
| 16              | S-8                 | 1.5/2                | 1          |                          | BG  | SAND-FINE AND SILT GRAY. 8" SAND-FINE TRACE SILT. BROWN WET. VERY LOOSE. |                          | 7 |           |
| 17              |                     | 76%                  | 2          |                          |   | END OF BORING 17'  |                          |   |           |
| 8               |                     |                      |            |                          |   |  |                          |   |           |
| 9               |                     |                      |            |                          |   |  |                          |   |           |
| 0               |                     |                      |            |                          |   |  |                          |   |           |
| 1               |                     |                      |            |                          |   |  |                          |   |           |
| 2               |                     |                      |            |                          |   |  |                          |   |           |
| 3               |                     |                      |            |                          |   |  |                          |   |           |
| 4               |                     |                      |            |                          |   |  |                          |   |           |
| 5               |                     |                      |            |                          |   |  |                          |   |           |
| 6               |                     |                      |            |                          |   |  |                          |   |           |
| 7               |                     |                      |            |                          |   |  |                          |   |           |
| 8               |                     |                      |            |                          |   |  |                          |   |           |
| 0               |                     |                      |            |                          |   | Match to Sheet   |                          |   |           |

DRILLING CO.: EMTL

DRILLER: GENE BARNES

BAKER REP.: KENNETH A. TUA

BORING NO.: 28-GW-1

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW01DW

COORDINATES: EAST: 2498346.58

NORTH: 331848.67

ELEVATION: SURFACE: 5.50

TOP OF PVC CASING: 7.49

|              |             |        |        |             |         |               |                            |                  |      |
|--------------|-------------|--------|--------|-------------|---------|---------------|----------------------------|------------------|------|
| RIG: # 48    |             |        |        |             |         |               |                            |                  |      |
|              | SPLIT SPOON | CASING | AUGERS | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                    | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   | 8"     |        |             | 4-21-94 | 0-65'         | clear, warm + humid (70's) | ~ 4.0            |      |
| LENGTH       | 2.0'        | 65.0'  |        |             | 4-23-94 | 65-134'       | clear, mild (70's)         |                  |      |
| TYPE         | Std.        | Steel  |        |             |         |               |                            |                  |      |
| HAMMER WT.   | 140#        |        |        |             |         |               |                            |                  |      |
| FALL         | 30"         |        |        |             |         |               |                            |                  |      |
| STICK UP     |             |        |        |             |         |               |                            |                  |      |

REMARKS: Boring sampled to 132.0'. HNU background is .2 ppm.

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | 2"   | PVC Threaded - Sch. 40       | + 2.5'         | 117.0' (bgs)      |
| T = Shelby Tube | W = Wash   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 117.0' (bgs)   | 132.0' (bgs)      |
| R = Air Rotary  | C = Core   |                  |      |                              |                |                   |
| D = Denison     | P = Piston |                  |      |                              |                |                   |
| N = No Sample   |            |                  |      |                              |                |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|--------------------------|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained w/ rooted material. Brown to gray, very loose, damp.   | 8" steel casing          |           |
| 2           | S-1                 | .5 / 20            |            | 01           | BG        | SAND, fine grained w/ SILT and FILL material (brick, burnt soil, charcoal flecks). Brownish red to black to brown, dense, damp. |                          |           |
| 3           |                     | 25%                |            |              |           |   |                          |           |
| 4           | S-2                 | NR                 | 12         |              |           |   |                          |           |
| 5           |                     |                    | 11         |              |           |   |                          |           |
| 6           | S-3                 | NR                 | 11         |              |           |   |                          |           |
| 7           |                     |                    | 7          |              |           |   |                          |           |
| 8           |                     |                    |            |              |           |   |                          |           |
| 10          |                     |                    |            |              | BG        |   |                          |           |

NO RECOVERY

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: J. E. Zimmerman

DRILLER: C. Chism

BORING NO.: 28-GW01DW

SHEET 1 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW01DW

| 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   |                     |                      |             |              |  |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD  | Samp. Desig. | PID (ppm)  | Visual Description   | Well Installation Detail | Elevation |
| 11              | S-4                 | 1.4<br>2.0           | NOH<br>12"  |              | BG   | Continued from Sheet 1   | 8" steel casing          |           |
| 12              |                     | 70%                  | 5<br>7      |              |  | SAND, fine grained w/ silt and little CLAY. Greenish-gray to brown, loose to soft, wet.  |                          |           |
| 13              |                     |                      |             |              |  |  |                          |           |
| 14              |                     |                      |             |              |  |  |                          |           |
| 15              |                     |                      |             |              |  |  |                          |           |
| 16              | S-5                 | 1.0<br>2.0           | 2<br>2<br>2 |              | BG   | SAND, fine grained w/ trace silt. Greenish gray to brown, loose, wet.  |                          |           |
| 17              |                     | 50%                  | 2           |              |  |  |                          |           |
| 18              |                     |                      |             |              |  |  |                          |           |
| 19              |                     |                      |             |              |  |  |                          |           |
| 20              |                     |                      |             |              |  |  |                          |           |
| 21              | S-6                 | 1.0<br>2.0           | 5<br>5<br>4 |              | BG   | SAND, fine grained w/ trace silt. Gray to brown, loose, wet.   | #7                       |           |
| 22              |                     | 50%                  | 4           |              |  |  |                          |           |
| 23              |                     |                      |             |              |  |  |                          |           |
| 24              |                     |                      |             |              |  |  |                          |           |
| 25              |                     |                      |             |              |  |  |                          |           |
| 26              | S-7                 | 1.0<br>2.0           | 7<br>6<br>8 |              | BG   | SAND, fine grained w/ trace silt (0 to .4') GRAVEL, coarse grained (.4 to 1.0'). Brown, medium dense, wet. Oxidation (orange) bottom 1/2 of sample only. | #0                       |           |
| 27              |                     | 50%                  | 12          |              |  |  |                          |           |
| 28              |                     |                      |             |              |  |  |                          |           |
| 29              |                     |                      |             |              |  |  |                          |           |
| 30              |                     |                      |             |              |  | Match to Sheet 3   |                          |           |

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GUO1DW

| 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   |                     |                      |            |              |           |   |                          |           |  |  |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |  |  |
| 31              | S-8                 | 0.7<br>2.0           | 7<br>13    |              | BG        | Continued from Sheet <u>2</u><br>SAND, fine to medium grained w/ trace silt and shell material. Brown & white, medium dense, wet. |                          |           |  |  |
| 32              |                     | 32.0                 | 35%        | 13<br>15     |           |   |                          |           |  |  |
| 33              |                     |                      |            |              |           |   |                          |           |  |  |
| 34              |                     |                      |            |              |           |   |                          |           |  |  |
| 35              |                     |                      |            |              |           |   |                          |           |  |  |
| 36              | S-9                 | 1.0<br>2.0           | 6<br>11    |              | BG        | SAND, fine to medium grained w/ trace silt and shell material. Brown to white, dense, wet.  |                          |           |  |  |
| 37              |                     | 37.0                 | 50%        | 20           |           |   |                          |           |  |  |
| 38              |                     |                      |            |              |           |   |                          |           |  |  |
| 39              |                     |                      |            |              |           |   |                          |           |  |  |
| 40              |                     |                      |            |              |           |   |                          |           |  |  |
| 41              | S-10                | 1.0<br>2.0           | 11<br>16   |              | BG        | SAND, fine to medium grained w/ trace silt and shell material. Brown to white, dense, wet.  |                          |           |  |  |
| 42              |                     | 42.0                 | 50%        | 17           |           |   |                          |           |  |  |
| 43              |                     |                      |            |              |           |   |                          |           |  |  |
| 44              |                     |                      |            |              |           |   |                          |           |  |  |
| 45              |                     |                      |            |              |           |   |                          |           |  |  |
| 46              | S-11                | 1.0<br>2.0           | 15<br>33   |              | BG        | SAND, fine to medium grained w/ trace silt and mica (acting as matrix). Light gray, dense, wet.                                   |                          |           |  |  |
| 47              |                     | 47.0                 | 50%        | 24           |           |   |                          |           |  |  |
| 48              |                     |                      |            |              |           |   |                          |           |  |  |
| 49              |                     |                      |            |              |           |   |                          |           |  |  |
| 50              |                     |                      |            |              |           | Match to Sheet <u>4</u>   |                          |           |  |  |



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW01DW

| 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   |                     |                      |            |              |           |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail | Elevation |
| 51              | S-12                | 1.1<br>2.0           | 15<br>35   |              | BG        | Continued from Sheet <u>3</u><br>SAND, fine to medium grained w/trace silt and micrite (acting as matrix). Light gray very dense, wet. |                          |           |
| 52              |                     | 52.0                 | 55%        | 27           |           |  |                          |           |
| 53              |                     |                      |            |              |           |  |                          |           |
| 54              |                     |                      |            |              |           |  |                          |           |
| 55              | S-13                | .8<br>2.0            | 16<br>11   |              | BG        | SAND, fine to medium grained w/trace silt and micrite (acting as matrix) bottom 1/2 of sample only light gray, medium dense, wet.      |                          |           |
| 56              |                     | 52.0                 | 40%        | 20           |           |  |                          |           |
| 57              |                     |                      |            |              |           |  |                          |           |
| 58              |                     |                      |            |              |           |  |                          |           |
| 59              |                     |                      |            |              |           |  |                          |           |
| 60              | S-14                | 1.2<br>2.0           | 5<br>13    |              | BG        | SAND, fine to medium grained w/trace silt and micrite (acting as matrix). Light gray, dense, wet.                                      |                          |           |
| 61              |                     | 62.0                 | 60%        | 28           |           |  |                          |           |
| 62              |                     |                      |            |              |           |  |                          |           |
| 63              |                     |                      |            |              |           |  |                          |           |
| 64              |                     |                      |            |              |           |  |                          |           |
| 65              |                     |                      |            |              |           |  |                          |           |
| 66              |                     |                      |            |              |           |  |                          |           |
| 67              |                     |                      |            |              |           |  |                          |           |
| 68              |                     |                      |            |              |           |  |                          |           |
| 69              |                     |                      |            |              |           |  |                          |           |
| 70              |                     |                      |            |              |           | Match to Sheet <u>5</u>  |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J.E. Zimmerman

BORING NO.: 28-GW01DW SHEET 4 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW01DW

| 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   |                     |                      |            |              |           |   |                          |   |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail |   |  | Elevation |
| 71              | S-15                | .4                   | 5          |              | BG        | Continued from Sheet <u>4</u><br>SAND, fine grained w/ trace silt. Greenish gray, very dense, wet | #                        | 0 |  |           |
| 72              |                     | 72.0                 | 2.0        | 14           |           |   |                          |   |  |           |
| 73              |                     |                      |            |              |           |   |                          |   |  |           |
| 74              |                     |                      |            |              |           |   |                          |   |  |           |
| 75              |                     |                      |            |              |           |   |                          |   |  |           |
| 76              | S-16                | .6                   | 17         |              | BG        | SAND, fine grained w/ trace silt and shell fragments. Greenish gray to white, very dense, wet     | #                        | 7 |  |           |
| 77              |                     | 77.0                 | 2.0        | 38           |           |   |                          |   |  |           |
| 78              |                     |                      |            |              |           |   |                          |   |  |           |
| 79              |                     |                      |            |              |           |   |                          |   |  |           |
| 80              |                     |                      |            |              |           |   |                          |   |  |           |
| 81              | S-17                | .5                   | 32         |              | BG        | SAND, fine grained w/ trace silt and shell material. Light gray, very dense, wet                  | #                        | 7 |  |           |
| 82              |                     | 82.0                 | 2.0        | 38           |           |   |                          |   |  |           |
| 83              |                     |                      |            |              |           |   |                          |   |  |           |
| 84              |                     |                      |            |              |           |   |                          |   |  |           |
| 85              |                     |                      |            |              |           |   |                          |   |  |           |
| 86              | S-18                | .6                   | 17         |              | BG        | SAND, fine grained w/ trace silt. Greenish gray, very dense, wet.                                 | #                        | 0 |  |           |
| 87              |                     | 87.0                 | 2.0        | 38           |           |   |                          |   |  |           |
| 88              |                     |                      |            |              |           |   |                          |   |  |           |
| 89              |                     |                      |            |              |           |   |                          |   |  |           |
| 90              |                     |                      |            |              |           | Match to Sheet <u>6</u>   |                          |   |  |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-GW01DW SHEET 5 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW01DW

| 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   |                     |                      |            |              |  |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm)  | Visual Description   | Well Installation Detail | Elevation |
| 91              | S-19                | .7                   | 17         |              | BG   | Continued from Sheet <u>5</u><br>SAND, fine grained w/ trace silt. Greenish gray, very dense, wet. | #0                       |           |
| 92              |                     | 2.0                  | 22         |              |  |  |                          |           |
| 93              |                     | 35%                  | 5 1/5"     |              |  |  |                          |           |
| 94              |                     |                      |            |              |  |  |                          |           |
| 95              | S-20                | 1.0                  | 9          |              | BG   | SAND, fine grained w/ trace silt. Greenish gray, very dense, wet.                                  | #7                       |           |
| 96              |                     | 2.0                  | 23         |              |  |  |                          |           |
| 97              | 97.0                | 50%                  | 5 1/5"     |              |  |  |                          |           |
| 98              |                     |                      |            |              |  |  |                          |           |
| 99              |                     |                      |            |              |  |  |                          |           |
| 100             | S-21                | 1.8                  | 17         |              | BG   | SAND, fine to medium w/ micrite cement. Light greenish gray, dense, wet.                           | #7                       |           |
| 101             |                     | 2.0                  | 30         |              |  |  |                          |           |
| 102             | 102.0               | 90%                  | 14         |              |  |  |                          |           |
| 103             |                     |                      | 27         |              |  |  |                          |           |
| 104             |                     |                      |            |              |  |  |                          |           |
| 105             | S-22                | .4                   | 40         |              | BG   | SAND, fine to medium grained w/ micrite cement. Light greenish gray, dense, wet.                   | #0                       |           |
| 106             |                     | 2.0                  | 5 1/3"     |              |  |  |                          |           |
| 107             | 107.0               | 20%                  | 3"         |              |  |  |                          |           |
| 108             |                     |                      |            |              |  |  | #2                       |           |
| 109             |                     |                      |            |              |  |  | #7                       |           |
| 110             | 110.0               |                      |            |              |  | Match to Sheet <u>7</u>  | #2                       |           |

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW01DN

| 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   |                     |                      |            |              |  |   |                          |    |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm)  | Visual Description  | Well Installation Detail |    | Elevation |
| 111             | S-23                | 1.0                  | 29         |              | BG   | Continued from Sheet <u>6</u><br>SAND, fine grained w/trace silt (0 to .8')                 | #2                       | #2 |           |
| 112             |                     | 2.0                  | 51         | 5"           |  |   |                          |    |           |
| 113             |                     | 50%                  |            |              |  | FOSSILIFEROUS LIMESTONE (.8' to 1.0') Castle Lane Fm. Gray to light green, very dense, wet. | #5                       |    |           |
| 114             |                     |                      |            |              |  |   |                          |    |           |
| 115             |                     |                      |            |              |  |   |                          |    |           |
| 116             | S-24                | 1.0                  | 25         |              | BG   | SAND, fine grained w/trace silt and shell material. Greenish gray, very dense, wet.         |                          |    |           |
| 117             |                     | 2.0                  | 38         | 5 1/4"       |  |   |                          |    |           |
| 118             |                     | 50%                  |            |              |  |   |                          |    |           |
| 119             |                     |                      |            |              |  |   |                          |    |           |
| 120             |                     |                      |            |              |  |   |                          |    |           |
| 121             | S-25                | NR                   | 73         |              | -  | NO RECOVERY   | #3                       |    |           |
| 122             |                     |                      | 5 1/3"     |              |  |   |                          |    |           |
| 123             |                     |                      |            |              |  |   |                          |    |           |
| 124             |                     |                      |            |              |  |   |                          |    |           |
| 125             |                     |                      |            |              |  |   |                          |    |           |
| 126             | S-26                | NR                   | 33         |              | -  | NO RECOVERY   |                          |    |           |
| 127             |                     |                      | 5 1/6"     |              |  |   |                          |    |           |
| 128             |                     |                      |            |              |  |   |                          |    |           |
| 129             |                     |                      |            |              |  |   |                          | #5 |           |
| 130             |                     |                      |            |              |  | Match to Sheet <u>8</u>   |                          |    |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-GW01DN SHEET 7 OF 8



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW101W

| 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   |                     |                      |              |              |  |  |                          |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD   | Samp. Desig. | PID (ppm)  | Visual Description                           | Well Installation Detail |  | Elevation |
| 131             | S-27                | NR                   | 57<br>5 1/3" |              | -  | Continued from Sheet <u>7</u><br>NO RECOVERY | #5                       |  |           |
| 132             | 132.0               |                      |              |              |  |  | #8                       |  |           |
| 133             |                     |                      |              |              |  |  |                          |  |           |
| 134             | 134.0               |                      |              |              |  | End of Boring<br>TD 134.0'                   | #5                       |  | -126.51   |
| 5               |                     |                      |              |              |  |  |                          |  |           |
| 6               |                     |                      |              |              |  |  |                          |  |           |
| 7               |                     |                      |              |              |  |  |                          |  |           |
| 8               |                     |                      |              |              |  |  |                          |  |           |
| 9               |                     |                      |              |              |  |  |                          |  |           |
| 0               |                     |                      |              |              |  |  |                          |  |           |
| 1               |                     |                      |              |              |  |  |                          |  |           |
| 2               |                     |                      |              |              |  |  |                          |  |           |
| 3               |                     |                      |              |              |  |  |                          |  |           |
| 4               |                     |                      |              |              |  |  |                          |  |           |
| 5               |                     |                      |              |              |  |  |                          |  |           |
| 6               |                     |                      |              |              |  |  |                          |  |           |
| 7               |                     |                      |              |              |  |  |                          |  |           |
| 8               |                     |                      |              |              |  |  |                          |  |           |
| 9               |                     |                      |              |              |  |  |                          |  |           |
| 0               |                     |                      |              |              |  | Match to Sheet _____                         |                          |  |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-GW101W SHEET 8 OF 8



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-GW05  
 COORDINATES: EAST: 2499931.97 NORTH: 331673.03  
 ELEVATION: SURFACE: 15.60 TOP OF PVC CASING: 15.47

|                  |                  |                   |                                |             |               |               |                     |                  |      |
|------------------|------------------|-------------------|--------------------------------|-------------|---------------|---------------|---------------------|------------------|------|
| RIG: <u>B-57</u> |                  |                   |                                |             | DATE          | PROGRESS (FT) | WEATHER             | WATER DEPTH (FT) | TIME |
|                  | SPLIT SPOON      | CASING            | AUGERS                         | CORE BARREL |               |               |                     |                  |      |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> | <u>2"</u>         | <u>3/4 ID</u><br><u>1/2 ID</u> |             | <u>4-7-94</u> | <u>24</u>     | <u>PARTLY SUNNY</u> | <u>11</u>        |      |
| LENGTH           | <u>2.0'</u>      | <u>24'</u>        | <u>5.0'</u>                    |             |               |               |                     |                  |      |
| TYPE             | <u>STD</u>       | <u>PVC SCH 40</u> | <u>HSA</u>                     |             |               |               |                     |                  |      |
| HAMMER WT.       | <u>140 #</u>     |                   |                                |             |               |               |                     |                  |      |
| FALL             | <u>30"</u>       |                   |                                |             |               |               |                     |                  |      |
| STICK UP         |                  |                   |                                |             |               |               |                     |                  |      |

REMARKS: BACKGROUND (BG) HNU = 0.2 DM

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>9.06</u>       |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>9.06</u>    | <u>23.40</u>      |
| 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 Ft. MSL |
|-------------|---------------------|--------------------|-------------|--------------------------|-----------|---|--------------------------|---|---|-------------------|
| 1           | LAB 00              | 100%<br>1.60/2     | —           | ∞                        | BG        | SAND-FINE TRACE S.I.T ORGANICS. CRUSHED STONE. BROWN. DRY |                          |   |   |                   |
| 2           | 5-1                 | 79%<br>1.60/2      | 1<br>2<br>5 |                          | BG        | S.I.T TRACE SAND-FINE. ORGANICS DAMP. BLACK. LOOSE.       |                          |   |   |                   |
| 3           |                     | 79%<br>1.60/2      | 9           |                          |           |   |                          |   |   |                   |
| 4           | 5-2                 | 71%<br>1.60/2      | 2<br>5<br>6 |                          | BG        | S.I.T. TRACE SAND-FINE DAMP. BLACK. MED DENSE             | 0                        | 0 |   |                   |
| 5           |                     | 71%<br>1.60/2      | 7           |                          |           | 4" CLAY BROWN   |                          |   |   |                   |
| 6           | 5-3                 | 79%<br>1.60/2      | 3<br>4<br>9 |                          | BG        | CLAY TRACE SAND-FINE DAMP. YELLOW. MED DENSE              | 2                        | 7 | 2 | BENTONITE         |
| 7           |                     | 79%<br>1.60/2      | 10          |                          |           |   |                          |   |   |                   |
| 8           | LAB 5-4             | 85%<br>1.7/2       | 2<br>5<br>3 | 04                       | BG        | S.I.T SOME SAND-FINE DAMP. YELLOW & GRAY. LOOSE           |                          |   |   | SAND              |
| 9           |                     | 85%<br>1.7/2       | 4           |                          |           |   | 5                        | 5 |   |                   |
| 10          | 5-5                 | 85%<br>1.7/2       | 2           |                          | BG        | SAND-FINE AND S.I.T MOIST TO WET. GRAY LOOSE              |                          | 8 |   |                   |

Match to Sheet 2

DRILLING CO.: EMTL  
 DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA  
 BORING NO.: 28-GW05

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 28 HPBD RIIFES MCB CAMP LEJUNE

S.O. NO.: 62470-231

BORING NO.: 28-GW05

| 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                 | 25%<br>R             | 2<br>3         |                          | BB  | Continued from Sheet 1<br>WATER @ 11'                           |                          |   |           |
| 12              | S-6                 | 15%<br>R             | 3<br>4<br>4    |                          | BB  | SAND-FINE TRACE SILT TRACE<br>GRAVEL-FINE<br>WET, ORANGE, LOOSE |                          |   |           |
| 13              |                     | 25%<br>R             | 3              |                          |   |   |                          |   |           |
| 14              | S-7                 | 10%<br>R             | 1<br>2<br>3    |                          | BB  | CLAY TRACE SAND-FINE<br>MOIST. GRAY, MED STIFF                  | 8                        |   |           |
| 15              |                     | 100%<br>R            | 3              |                          |   |   |                          |   |           |
| 16              | S-8                 | 10%<br>R             | 4<br>3<br>2    |                          | BB  | CLAY, MOIST. GRAY<br>MED STIFF                                  | 5                        | 5 |           |
| 17              |                     | 100%<br>R            | 9              |                          |   |   |                          |   |           |
| 18              | S-9                 | 100%<br>R            | 6<br>6         |                          | BB  | SAND-FINE AND SILT<br>WET, GRAY, MED DENSE                      |                          |   |           |
| 19              |                     | 100%<br>R            | 7              |                          |   |   | 7                        |   |           |
| 20              | S-10                | 1.67<br>2            | 5<br>3         |                          | BB  | SAND-FINE LITTLE SILT, WET<br>GRAY, LOOSE                       |                          |   |           |
| 21              |                     | 83%<br>R             | 4              |                          |   |   |                          |   |           |
| 22              | S-11                | 10%<br>R             | 10<br>13<br>14 |                          | BB  | SAND-FINE LITTLE SILT<br>WET, GRAY, MED DENSE                   | 8                        |   |           |
| 23              |                     | 100%<br>R            | 20             |                          |   |   |                          |   |           |
| 24              | N                   |                      |                |                          |   | NO SAMPLE   |                          |   |           |
|                 |                     |                      |                |                          |   | END OF BORING 24'   |                          |   | -8.53     |
| 5               |                     |                      |                |                          |   |   |                          |   |           |
| 6               |                     |                      |                |                          |   |   |                          |   |           |
| 7               |                     |                      |                |                          |   |   |                          |   |           |
| 8               |                     |                      |                |                          |   |   |                          |   |           |
| 0               |                     |                      |                |                          |   | Match to Sheet  |                          |   |           |

DRILLING CO.: EMTC

DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA

BORING NO.: 28-GW05

SHEET 2 OF 2

# Baker

Baker Environmental, Inc

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNE

S.O. NO.: 62470-231

BORING NO.: 28-GW 06

COORDINATES: EAST: 2498117.9600

NORTH: 332191.7520

ELEVATION: SURFACE: 17.20

TOP OF PVC CASING: 19.98

|                  |                  |                   |                  |             |               |               |              |                  |      |
|------------------|------------------|-------------------|------------------|-------------|---------------|---------------|--------------|------------------|------|
| RIG: <u>B-57</u> |                  |                   |                  |             |               |               |              |                  |      |
|                  | SPLIT SPOON      | CASING            | AUGERS           | CORE BARREL | DATE          | PROGRESS (FT) | WEATHER      | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> | <u>2"</u>         | <u>6 1/4" ID</u> |             | <u>4-7-94</u> | <u>30</u>     | <u>SUNNY</u> | <u>17</u>        |      |
| LENGTH           | <u>2.0'</u>      | <u>30'</u>        | <u>5.0'</u>      |             |               |               |              |                  |      |
| TYPE             | <u>STD</u>       | <u>PVC SCH 40</u> | <u>HSA</u>       |             |               |               |              |                  |      |
| HAMMER WT.       | <u>140#</u>      |                   |                  |             |               |               |              |                  |      |
| FALL             | <u>30"</u>       |                   |                  |             |               |               |              |                  |      |
| STICK UP         |                  |                   |                  |             |               |               |              |                  |      |

REMARKS: BACKGROUND (BG) HNU = 0.3 PPM

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE              | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|-------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | <u>RISER</u>     | <u>2"</u> | <u>PVC SCH 40</u> | <u>0</u>       | <u>15.07</u>      |
| T = Shelby Tube | W = Wash   |                  |           |                   |                |                   |
| R = Air Rotary  | C = Core   | <u>SCREEN</u>    | <u>2"</u> | <u>PVC SCH 40</u> | <u>15.07</u>   | <u>29.39</u>      |
| 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 Ft. MSL |
|-------------|---------------------|--------------------|------------|--------------------------|-----------|---|--------------------------|---|-------------------|
| 1           | LAB 00              | 100%               | -          | 00                       | BG        | SILT AND SAND-FINE DRY. BLACK.                                    |                          |   |                   |
| 2           | S-1                 | 1.68<br>2          | 7          |                          | BG        | SAND-FINE LITTLE SILT. GRAY. DRY. MED DENSE                       |                          |   |                   |
| 3           |                     | 79%                | 7          |                          |           | 8" CLAY TRACE SAND-FINE. ORANGE. DRY.                             |                          |   |                   |
| 4           | S-2                 | 1.5<br>2           | 3          |                          | BG        | SAND-FINE TRACE SILT DRY. GRAY. MED DENSE.                        |                          |   |                   |
| 5           |                     | 75%                | 6          |                          |           |   |                          |   |                   |
| 6           | S-3                 | 1.67<br>2          | 3          |                          | BG        | SAND-FINE TRACE SILT MOIST. WHITE. MED DENSE                      | 0                        | 7 | 0                 |
| 7           |                     | 83%                | 9          |                          |           |   |                          |   |                   |
| 8           | LAB S-4             | 1.67<br>2          | 3          |                          | BG        | SILT AND SAND-FINE. BROWN 8" CLAY TRACE SAND-FINE DAMP. MED STIFF |                          |   |                   |
| 9           |                     | 83%                | 9          |                          |           |   |                          |   |                   |
| 10          | S-5                 | 2<br>2             | 3          |                          | BG        | CLAY TRACE SAND-FINE. DAMP. GRAY. MED DENSE                       | 2                        | 2 |                   |
|             |                     |                    | 5          |                          |           |   |                          |   |                   |
|             |                     |                    |            |                          |           | Match to Sheet 2  | 5                        | 5 |                   |

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 28-GW 06

SHEET 1 OF 2



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 28-GW06

| 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                 | 100%                 | 6<br>9           |                          | BG  | Continued from Sheet 1   |                          |   |           |
| 12              | S-7                 | 1.67<br>2<br>83%     | 4<br>5<br>4      |                          | BG  | SAND-FINE SOME SILT TRACE<br>CLAY. GRAY + YELLOW<br>DAMP. MED DENSE                                      |                          | 7 |           |
| 13              |                     |                      | 4                |                          |   |  |                          |   |           |
| 14              | S-8                 | 1.67<br>2<br>83%     | 1<br>2<br>3      |                          | BG  | CLAY SOME SAND-FINE<br>DAMP. GRAY. SOFT.   |                          |   |           |
| 15              |                     |                      | 2                |                          |   |  |                          |   |           |
| 16              | LAB S-9             | 2<br>2<br>100%       | 2<br>3<br>2<br>3 |                          | BG  | 10" SAND-FINE AND SILT. GRAY. MOIST<br>MED. DENSE<br>12" CLAY TRACE SAND-FINE GRAY<br>MOIST. SOFT        | 5                        | 5 |           |
| 17              |                     |                      | 3                |                          |   | WATER @ 17'  |                          |   |           |
| 18              | S-10                | 2<br>2<br>100%       | 3<br>4<br>5      |                          | BG  | SAND-FINE AND SILT. WET. GRAY<br>AND ORANGE.<br>LOOSE  |                          |   |           |
| 19              |                     |                      | 5                |                          |   |  |                          | 8 |           |
| 20              | S-11                | 2<br>2<br>100%       | 4<br>4<br>5<br>7 |                          | BG  | 12" SAND-FINE SOME SILT. YELLOW<br>WET. LOOSE<br>12" CLAY SOME SAND-FINE TRACE<br>SILT. GRAY. WET. SOFT. |                          |   |           |
| 21              |                     |                      | 7                |                          |   |  |                          |   |           |
| 22              | S-12                | 2<br>2<br>100%       | 5<br>1<br>8<br>6 |                          | BG  | SAND-FINE SOME SILT. YELLOW<br>WET. 4" CLAY TRACE SAND-FINE<br>GRAY. MED STIFF                           |                          |   |           |
| 23              |                     |                      | 6                |                          |   |  |                          |   |           |
| 24              | S-13                | 2<br>2<br>100%       | 3<br>4<br>3<br>6 |                          | BG  | SILT TRACE SAND-FINE TO CLAY<br>4" SAND-FINE TRACE SILT. GRAY.<br>WET. LOOSE                             |                          |   |           |
| 25              |                     |                      | 6                |                          |   |  |                          | 7 |           |
| 26              | S-14                | 1.82<br>2<br>92%     | 3<br>3<br>5<br>5 |                          | BG  | SAND-FINE AND SILT. GRAY<br>WET. LOOSE   |                          |   |           |
| 27              |                     |                      | 5                |                          |   |  |                          |   |           |
| 28              | S-15                | 2<br>2<br>100%       | 3<br>4<br>4<br>5 |                          | BG  | SAND-FINE LITTLE SILT. WET<br>LT. GRAY. LOOSE.   |                          | 8 |           |
| 29              |                     |                      | 5                |                          |   |  |                          |   |           |
| 30              | N                   |                      |                  |                          |   | NO SAMPLE  |                          | 7 |           |
|                 |                     |                      |                  |                          |   | END OF BORING 30' Match to Sheet   |                          |   |           |

DRILLING CO.: EMTC

DRILLER: JIM MARSH

BAKER REP.: KENNETH A. TUA

BORING NO.: 28-GW06

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW07

COORDINATES: EAST: 249942.5600

NORTH: 331714.7820

ELEVATION: SURFACE: 3.85

TOP OF PVC CASING: 6.62

|              |             |        |           |             |        |               |                    |                  |      |
|--------------|-------------|--------|-----------|-------------|--------|---------------|--------------------|------------------|------|
| RIG: # 73    |             |        |           |             |        |               |                    |                  |      |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL | DATE   | PROGRESS (FT) | WEATHER            | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" IO |             | 4-8-94 | 0-18'         | clear, cool (50's) | 3.5              |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |        |               |                    |                  |      |
| TYPE         | Std.        |        | HSA       |             |        |               |                    |                  |      |
| HAMMER WT.   | 140#        |        |           |             |        |               |                    |                  |      |
| FALL         | 30"         |        |           |             |        |               |                    |                  |      |
| STICK UP     |             |        |           |             |        |               |                    |                  |      |

REMARKS: Boring is sampled to 17.0'. H<sub>2</sub>O background is .2 ppm.

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | 2"   | PVC Threaded - Sch. 40       | + 2.5'         | 2.5' (bgs)        |
| T = Shelby Tube | W = Wash   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 2.5' (bgs)     | 17.5' (bgs)       |
| R = Air Rotary  | C = Core   |                  |      |                              |                |                   |
| D = Denison     | P = Piston |                  |      |                              |                |                   |
| N = No Sample   |            |                  |      |                              |                |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|--------------------------|-----------|
| 1           |                     | -                  | -          | 00           | BG        | SILTY SAND, fine grained Brown, v. loose, damp.                                       | #2                       |           |
| 2           | S-1                 | 1.9 / 2.0          | 1 / 2      | 01           | BG        | SAND, fine grained w/ trace silt. Dark brown, moist.                                  | #5                       |           |
| 3           |                     | 95%                | 4          |              |           |   |                          |           |
| 4           | S-2                 | .8 / 2.0           | 17 / 12    |              | BG        | FILL material (brick, ceramics, charcoal)   |                          |           |
| 5           |                     | 40%                | 18         |              |           |   |                          |           |
| 6           | S-3                 | .4 / 2.0           | 6 / 50     |              | BG        | SAND, fine grained w/ trace silt. Dark gray, very dense, wet                          | #8                       |           |
| 7           |                     | 20%                | 4"         |              |           |   |                          |           |
| 8           | S-4                 | .7 / 2.0           | 3 / 7      |              | BG        | ORGANIC material (peat like) w/ wood splinters. Dark brown, very loose, moist to wet. |                          |           |
| 9           |                     | 35%                | 12"        |              |           |   |                          |           |
|             | S-5                 | .7 / 2.0           | 1 / 12"    |              | BG        | Match to Sheet 2  | #5                       |           |
|             |                     | 35%                | 12"        |              |           |   |                          |           |

DRILLING CO.: EMTC

BAKER REP.: J.E. Zimmerman

DRILLER: G. Barnes

BORING NO.: 28-GW07

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW07

| 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   |                     |                      |            |              |           |   |                          |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail |  | Elevation |
| 11              | 11.0 S-5            | 35%                  | 1          |              | BG        | Continued from Sheet 1  | #5                       |  |           |
| 12              |                     | 1.0 / 2.0            | 1/12"      |              |           |   |                          |  |           |
| 13              | 13.0 S-6            | 50%                  | 1/12"      |              | BG        | ORGANIC material (peat like) w/ wood splinters. Dark brown, very loose, moist to wet. | #8                       |  |           |
| 14              |                     | 1.1 / 2.0            | 2 / 1/2"   |              |           |   |                          |  |           |
| 15              | 15.0 S-7            | 55%                  | 1          |              | BG        |   |                          |  |           |
| 16              |                     | .7 / 2.0             | 1          |              |           |   |                          |  |           |
| 17              | 17.0 S-8            | 35%                  | 1          |              | BG        |   |                          |  |           |
| 18              | 18.0                |                      |            |              | -         |   | #5                       |  |           |
| 19              |                     |                      |            |              |           | End of Boring TD 18.0'  |                          |  |           |
| 20              |                     |                      |            |              |           |   |                          |  |           |
| 21              |                     |                      |            |              |           |   |                          |  |           |
| 22              |                     |                      |            |              |           |   |                          |  |           |
| 23              |                     |                      |            |              |           |   |                          |  |           |
| 24              |                     |                      |            |              |           |   |                          |  |           |
| 25              |                     |                      |            |              |           |   |                          |  |           |
| 26              |                     |                      |            |              |           |   |                          |  |           |
| 27              |                     |                      |            |              |           |   |                          |  |           |
| 28              |                     |                      |            |              |           |   |                          |  |           |
| 29              |                     |                      |            |              |           |   |                          |  |           |
| 30              |                     |                      |            |              |           |   |                          |  |           |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28-GW07

SHEET 2 OF 2

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: Site 28 - HPBD RI/FS MCB Camp LejeuneS.O. NO.: 19231BORING NO.: 28-GW08COORDINATES: EAST: 2499117.7000NORTH: 332231.4150ELEVATION: SURFACE: 11.6TOP OF PVC CASING: 14.16

| RIG:         |           |        |                    |  | DATE   | PROGRESS (FT) | WEATHER    | WATER DEPTH (FT) | TIME              |
|--------------|-----------|--------|--------------------|--|--------|---------------|------------|------------------|-------------------|
| SPLIT SPOON  | CASING    | AUGERS | CORE BARREL        |  |        |               |            |                  |                   |
| SIZE (DIAM.) | 1-3/8" ID |        | 3/4" ID<br>5/8" ID |  | 4-9-94 | 0.0-24.0      | SUNNY 165° | 10.8             | (BORING ADVANCE.) |
| LENGTH       | 2.0'      |        | 5.0                |  |        |               |            |                  |                   |
| TYPE         | Std.      |        | HSA                |  |        |               |            |                  |                   |
| HAMMER WT.   | 140#      |        |                    |  |        |               |            |                  |                   |
| FALL         | 30"       |        |                    |  |        |               |            |                  |                   |
| STICK UP     |           |        |                    |  |        |               |            |                  |                   |

REMARKS: Boring sampled to 23.0'. HNu BL = 0.2 PPM

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT)      | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|---------------------|-------------------|
| S = Split Spoon | A = Auger  |                  |      |                              |                     |                   |
| T = Shelby Tube | W = Wash   | Well Casing      | 2"   | PVC Threaded - Sch. 40       | MAY CHANGE<br>+ 2.3 | 7.96 bgs          |
| R = Air Rotary  | C = Core   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 7.96 bgs            | 22.71 bgs         |
| D = Denison     | P = Piston |                  |      |                              |                     |                   |
| N = No Sample   |            |                  |      |                              |                     |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail |    | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|--------------------------|----|-----------|
| 1           |                     |                    |            | 00           | BL        | SAND, fine grained, trace grass, trace roots, trace tile, trace glass, brown damp   |                          |    |           |
| 2           | S-1                 | 0.2 / 2.0          | 6 / 7      |              | BL        | SAND, fine grained, trace gravel, trace silt, trace glass, trace white powder, brown, medium dense, damp  | #0                       | #0 |           |
| 3           |                     | 10%                | 7          |              |           |   |                          |    |           |
| 4           | S-2                 | 0.3 / 2.0          | 3 / 4      |              | BL        | SAND, fine grained, trace gravel, trace silt, trace glass, trace ceramic material, brown, loose, damp   | #1                       | #2 |           |
| 5           |                     | 15%                | 6          |              |           |   | #2                       | #2 |           |
| 6           | S-3                 | 0.2 / 2.0          | 3 / 4      |              | BL        | SAND, fine grained, trace gravel, trace silt, trace brick, trace soft white substance (cross. food), trace nylon stocking, brown, to reddish brown, loose, damp |                          |    |           |
| 7           |                     | 10%                | 6          |              |           |   |                          |    |           |
| 8           | S-4                 | 0.0 / 2.0          | 6 / 7      |              |           | NO RECOVERY   | #5                       |    |           |
| 9           |                     | 0%                 | 12         |              |           |   |                          |    |           |
| 10          | S-5                 | 1.0 / 2.0          | 21 / 5     | 05           | BL        | TOP = BURNT, FILL MAT'L, BLACK, damp<br>Bott = SAND, fine grained, little burnt fill, trace silt, gray, loose, Match to Sheet 2<br>moist to wet                 | #8                       | #5 |           |

DRILLING CO.: EMTCDRILLER: J. MARSH / G. BARNESBAKER REP.: MARTIN G. TAUBERBORING NO.: 28-GW08SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28-GW08

| 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   |                     |                      |               |              |           |  |                          |  |                |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD    | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  | Elevation      |
| 11              |                     |                      | 4<br>7        |              |           | Continued from Sheet 1, wet below 10.8. SAMPLE collected from middle of recovered interval (3.0' O.D. SPLIT SPOON DRIVEN)              | #5                       |  | Boring ADVANCE |
| 12              | S-6                 | 0.4<br>2.0           | 2<br>1<br>2   |              | BG        | SAND, fine grained and BURNT FILL (wood, brick, glass), trace gravel, trace silt, dark gray to black, very loose, wet                  |                          |  |                |
| 13              |                     | 20%                  | 1             |              |           |  |                          |  |                |
| 14              | S-7                 | 0.1<br>2.0           | 3<br>0<br>1   |              | BG        | SAND, fine grained, little silt, trace glass, black, very loose, wet   | #8                       |  |                |
| 15              |                     | 5%                   | 0             |              |           |  | #5                       |  |                |
| 16              | S-8                 | 0.7<br>2.0           | 4<br>5        |              | BG        | SAND, fine to coarse grained, trace silt, trace glass, trace ceramic, trace brick, black, medium dense, wet                            |                          |  |                |
| 17              |                     | 3.5%                 | 13<br>24      |              |           |  |                          |  |                |
| 18              | S-9                 | 1.0<br>2.0           | 8<br>25<br>23 |              | BG        | SAND, fine to coarse grained, trace silt, trace glass, trace ceramic, trace brick, black, very dense, wet                              | #7                       |  |                |
| 19              |                     | 50%                  | 32            |              |           |  |                          |  |                |
| 20              | S-10                | 0.5<br>2.0           | 8<br>12<br>13 |              | BG        | SAND, fine to coarse grained, trace silt, trace glass, trace ceramic, trace brick, trace metal scrap (screw), black, medium dense, wet | #8                       |  |                |
| 21              |                     | 25%                  | 12            |              |           |  |                          |  |                |
| 22              | S-11                | 1.0<br>2.0           | 5<br>10<br>8  |              | BG        | ORGANIC MATERIAL (WOOD LEAVES), little sand, little silt, reddish brown to dark brown, medium dense, wet to moist                      | #7                       |  |                |
| 23              |                     | 50%                  | 7             |              |           |  |                          |  |                |
| 24              |                     |                      |               |              |           | END OF BORING<br>TOTAL DEPTH = 23.0'   | #5                       |  |                |
| 25              |                     |                      |               |              |           | NOTE: SHELL CASING<br>RETRIEVED FROM<br>BOREHOLE UPON REMOVAL<br>OF AUGERS   |                          |  |                |
| 26              |                     |                      |               |              |           |  |                          |  |                |
| 27              |                     |                      |               |              |           |  |                          |  |                |
| 28              |                     |                      |               |              |           |  |                          |  |                |
| 29              |                     |                      |               |              |           |  |                          |  |                |
| 30              |                     |                      |               |              |           | Match to Sheet 3   |                          |  |                |

DRILLING CO.: EMTC

DRILLER: J. MARSH / G. BARNES

BAKER REP.: MARTIN G. TAUBE

BORING NO.: 28-GW08

SHEET 2 OF 2

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: Site 28 - HPBD RI/FS MCB Camp LejeuneS.O. NO.: 19231BORING NO.: 28GWTDWCOORDINATES: EAST: 2499167.46NORTH: 331708.22ELEVATION: SURFACE: 3.65TOP OF PVC CASING: 6.03

|              |             |             |        |             |         |               |                                  |                  |      |
|--------------|-------------|-------------|--------|-------------|---------|---------------|----------------------------------|------------------|------|
| RIG: # 48    |             |             |        |             |         |               |                                  |                  |      |
|              | SPLIT SPOON | CASING      | AUGERS | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER                          | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   | 8" / 6"     |        |             | 4-18-94 | 0-52.0'       | clear, warm (70's)               |                  |      |
| LENGTH       | 2.0'        | 50.5' / 80' |        |             | 4-20-94 | 52-77.0'      | clear, mild (60's)               |                  |      |
| TYPE         | Std.        | Steel       |        |             | 4-26-94 | 80-132.0'     | mostly cloudy mild, humid (60's) |                  |      |
| HAMMER WT.   | 140#        |             |        |             |         |               |                                  |                  |      |
| FALL         | 30"         |             |        |             |         |               |                                  |                  |      |
| STICK UP     |             |             |        |             |         |               |                                  |                  |      |

REMARKS: Boring sampled to 132.0'. HNU background is .1 ppm.

| SAMPLE TYPE     |               | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|---------------|------------------|------|------------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger     | Well Casing      | 2"   | PVC Threaded - Sch. 40       | + 2.5'         | 114.0' (bgs)      |
| T = Shelby Tube | W = Wash      | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 114.0' (bgs)   | 129.0' (bgs)      |
| R = Air Rotary  | C = Core      |                  |      |                              |                |                   |
| D = Denison     | P = Piston    |                  |      |                              |                |                   |
| H = HAND SPOON  | N = No Sample |                  |      |                              |                |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|--------------------------|-----------|
| 1           |                     | —                  | —          | 00           | —         | 0.0-0.2 GRASS, TOP SOIL<br>SAND, fine grained, trace silt, light brown, damp            |                          |           |
| 2           | S-1                 | 1.4 / 2.0          | 3          | 01           | —         | SAND, fine grained, little silt, brown, medium dense, moist to wet (wet below 2.7' bgs) |                          |           |
| 3           |                     | 70%                | 6          |              |           |   |                          |           |
| 4           | S-2                 | 0 / 2.0            | 19         |              | —         | NO RECOVERY   |                          |           |
| 5           |                     | 0%                 | 7          |              |           |   |                          |           |
| 6           | S-3                 | 1.0 / 2.0          | 5          |              | —         | SILT, organic, some wood, dark brown, loose, wet  |                          |           |
| 7           |                     | 55%                | 2          |              |           |   |                          |           |
| 8           |                     |                    |            |              |           |   |                          |           |
| 9           |                     |                    |            |              |           |   |                          |           |
| 10          |                     |                    |            |              |           |   |                          |           |

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.BAKER REP.: M. TaubeDRILLER: C. ChismBORING NO.: 28GWTDWSHEET 1 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GWTDW

| 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   |                     |                      |            |              |  |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm)  | Visual Description   | Well Installation Detail | Elevation |
| 11              | S-A                 | 1.5                  | 2          |              | -  | Continued from Sheet 1<br>SILT organic, some wood, dark brown, very loose, wet                         | 8" steel casing          |           |
| 12              |                     | 2.0                  | 2          |              |  |  |                          |           |
| 12              |                     | 75%                  | 2          |              |  |  |                          |           |
| 13              |                     |                      |            |              |  |  |                          |           |
| 14              |                     |                      |            |              |  |  |                          |           |
| 15              |                     |                      |            |              |  |  | 6" steel casing          |           |
| 16              | S-5                 | 0                    | 5          |              | -  | NO RECOVERY  |                          |           |
| 16              |                     | 2.0                  | 3          |              |  |  |                          |           |
| 17              |                     | 0%                   | 2          |              |  |  |                          |           |
| 17              |                     |                      |            |              |  |  |                          |           |
| 18              | S-6                 | 2.0                  | 2          |              | -  | SILTY CLAY, trace fine sand, gray, soft, wet   |                          |           |
| 18              |                     | 2.0                  | 2          |              |  |  |                          |           |
| 19              |                     | 100%                 | 2          |              |  |  |                          |           |
| 19              |                     |                      |            |              |  |  |                          |           |
| 20              |                     |                      |            |              |  |  |                          |           |
| 21              | S-7                 | 1.6                  | 3          |              | -  | SILTY CLAY, trace to some sand, trace gravel, gray and brown, soft, wet                                |                          |           |
| 21              |                     | 2.0                  | 2          |              |  |  |                          |           |
| 22              |                     | 80%                  | 2          |              |  |  |                          |           |
| 22              |                     |                      |            |              |  |  |                          |           |
| 23              |                     |                      |            |              |  |  |                          |           |
| 24              |                     |                      |            |              |  |  |                          |           |
| 25              |                     |                      |            |              |  |  |                          |           |
| 25              |                     |                      |            |              |  |  |                          |           |
| 26              | S-8                 | 1.0                  | 4          |              | -  | SAND, fine to medium grained, trace silt, trace clay, trace wood fragments, dark gray, very stiff, wet |                          |           |
| 26              |                     | 2.0                  | 8          |              |  |  |                          |           |
| 27              |                     | 90%                  | 9          |              |  |  |                          |           |
| 27              |                     |                      |            |              |  |  |                          |           |
| 28              |                     |                      |            |              |  |  |                          |           |
| 28              |                     |                      |            |              |  |  |                          |           |
| 30              |                     |                      |            |              |  | Match to Sheet 3   |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: M. Taube

BORING NO.: 28GWTDW

SHEET 2 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW7DW

| 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   |                     |                      |            |              |  |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm)  | Visual Description  | Well Installation Detail | Elevation |
| 31              | 5-9                 | 1.0                  | 9          | -            | -  | Continued from Sheet 2<br>SAND, fine to coarse grained, little silt, trace wood fragments, dark gray, medium dense, wet | 8" steel casing          |           |
| 32              |                     | 2.0                  | 9          |              |  |   |                          |           |
| 32.0            |                     | 50%                  | 7          |              |  |   |                          |           |
| 33              |                     |                      |            |              |  |   |                          |           |
| 34              |                     |                      |            |              |  |   |                          |           |
| 35              |                     |                      |            |              |  |   |                          |           |
| 35.0            |                     |                      |            |              |  |   |                          |           |
| 36              | 5-10                | 1.3                  | 7          | -            | -  | SAND, fine to medium grained w/ CLAY and ORGANIC material (wood). Dark gray, dense to stiff, wet                        | 6" steel casing          |           |
| 37              |                     | 2.0                  | 13         |              |  |   |                          |           |
| 37.0            |                     | 65%                  | 15         |              |  |   |                          |           |
| 38              |                     |                      |            |              |  |   |                          |           |
| 39              |                     |                      |            |              |  |   |                          |           |
| 40              |                     |                      |            |              |  |   |                          |           |
| 40.0            |                     |                      |            |              |  |   |                          |           |
| 41              | 5-11                | 2.0                  | 5          | -            | -  | SAND, fine to medium grained. Dark gray to orangish brown, loose, wet.  |                          |           |
| 42              |                     | 2.0                  | 4          |              |  |   |                          |           |
| 42.0            |                     | 100%                 | 6          |              |  |   |                          |           |
| 43              |                     |                      |            |              |  |   |                          |           |
| 44              |                     |                      |            |              |  |   |                          |           |
| 45              |                     |                      |            |              |  |   |                          |           |
| 45.0            |                     |                      |            |              |  |   |                          |           |
| 46              | 5-12                | 1.2                  | 6          | -            | -  | SAND, fine to medium grained w/ shell material (.7 to .8') only. Brown + white, dense, wet.                             |                          |           |
| 47              |                     | 2.0                  | 19         |              |  |   |                          |           |
| 47.0            |                     | 60%                  | 23         |              |  |   |                          |           |
| 48              |                     |                      |            |              |  |   |                          |           |
| 49              |                     |                      |            |              |  |   |                          |           |
| 50              |                     |                      |            |              |  |   |                          |           |
| 50.0            |                     |                      |            |              |  | Match to Sheet 4  |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J.E. Zimmerman

BORING NO.: 28GW7DW SHEET 3 OF 8



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: ZBGW7DW

| 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   |                     |                      |                |              |  |  |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm)  | Visual Description   | Well Installation Detail | Elevation |
| 51              | 5-13                | 1.3<br>2.0           | 12<br>13<br>17 |              | -  | Continued from Sheet <u>3</u><br>SAND, fine to medium grained. Brown, dense, wet.  | 8" steel casing          |           |
| 52              | 52.0                | 65%                  | 21             |              |  |  |                          |           |
| 53              |                     |                      |                |              |  |  |                          |           |
| 54              |                     |                      |                |              |  |  |                          |           |
| 55              |                     |                      |                |              |  |  | 6" steel casing          |           |
| 56              |                     |                      |                |              |  |  |                          |           |
| 57              |                     |                      |                |              |  |  |                          |           |
| 58              |                     |                      |                |              |  |  |                          |           |
| 59              |                     |                      |                |              |  |  |                          |           |
| 60              | 60.0                |                      |                |              |  |  |                          |           |
| 61              | 5-14                | 1.1<br>2.0           | 16<br>22       |              | -  | SAND, fine to medium w/silt and little shell material. Brown to white, dense, wet. | #7                       |           |
| 62              | 62.0                | 55%                  | 5 1/8"         |              |  |  |                          |           |
| 63              |                     |                      |                |              |  |  |                          |           |
| 64              |                     |                      |                |              |  |  |                          |           |
| 65              | 65.0                |                      |                |              |  |  |                          |           |
| 66              | 5-15                | .5<br>2.0            | 24<br>30       |              | -  | SAND, fine grained. Brown, dense, wet.   |                          |           |
| 67              | 67.0                | 25%                  |                |              |  |  |                          |           |
| 68              |                     |                      |                |              |  |  |                          |           |
| 69              |                     |                      |                |              |  |  |                          |           |
| 70              | 70.0                |                      |                |              |  | Match to Sheet <u>5</u>  | #0                       |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: ZBGW7DW SHEET 4 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW7DW

| 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   |                     |                      |                            |              |           |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD                 | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
| 71              | S-16                | .6<br>2.0            | 41<br>51<br>4"             | -            | -         | Continued from Sheet <u>4</u><br>SAND, fine grained w/ trace silt. Greenish gray, dense, wet                                  | 6" steel casing          |           |
| 72              |                     | 30%                  |                            |              |           |   |                          |           |
| 73              |                     |                      |                            |              |           |   |                          |           |
| 74              |                     |                      |                            |              |           |   |                          |           |
| 75              |                     |                      |                            |              |           |   |                          |           |
| 76              | S-17                | .6<br>2.0            | 30<br>51<br>5"             | -            | -         | SAND, fine grained w/ trace silt and shell material. Greenish gray to white, dense, wet                                       |                          |           |
| 77              |                     | 30%                  |                            |              |           |   |                          |           |
| 78              |                     |                      |                            |              |           |   |                          |           |
| 79              |                     |                      |                            |              |           |   |                          |           |
| 80              |                     |                      |                            |              |           |   |                          |           |
| 81              | S-18                | .4<br>2.0            | 4<br>7<br>39<br>51         |              | BG        | SAND, fine to medium grained w/ trace silt and shell material. Micrite is cement acting as matrix. Greenish gray, dense, wet. | #7                       |           |
| 82              |                     | 20%                  |                            |              |           |   |                          |           |
| 83              |                     |                      |                            |              |           |   |                          |           |
| 84              |                     |                      |                            |              |           |   |                          |           |
| 85              |                     |                      |                            |              |           |   |                          |           |
| 86              | S-19                | .8<br>2.0            | 14<br>27<br>29<br>51<br>4" |              | BG        | SAND, fine grained w/ trace silt and shell material. Greenish gray to white, very dense, wet.                                 |                          |           |
| 87              |                     | 40%                  |                            |              |           |   |                          |           |
| 88              |                     |                      |                            |              |           |   |                          |           |
| 89              |                     |                      |                            |              |           |   | #0                       |           |
| 90              |                     |                      |                            |              |           | Match to Sheet <u>6</u>   |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GW7DW SHEET 5 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GWTDW

| 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   |                     |                      |                |              |           |  |                          |  |    |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |  |    | Elevation |
| 91              | 5-20                | 1.3<br>2.0           | 17<br>33<br>40 |              | BG        | Continued from Sheet <u>5</u><br>SAND, fine grained w/ trace silt and shell fragments. Greenish gray and white, very dense, wet.   | #0                       |  |    |           |
| 92              |                     | 65%                  | 5 1/8"         |              |           |  |                          |  |    |           |
| 93              |                     |                      |                |              |           |  |                          |  |    |           |
| 94              |                     |                      |                |              |           |  |                          |  |    |           |
| 95              | 95.0                |                      |                |              |           |  |                          |  |    |           |
| 96              | 5-21                | 1.8<br>2.0           | 19<br>29<br>29 |              | BG        | SAND, fine to medium grained w/ trace silt and shell fragments. Green and white, very dense, wet.  | #7                       |  |    |           |
| 97              |                     | 90%                  | 5 1/8"         |              |           |  |                          |  |    |           |
| 98              |                     |                      |                |              |           |  |                          |  |    |           |
| 99              |                     |                      |                |              |           |  |                          |  |    |           |
| 100             | 100.0               |                      |                |              |           |  |                          |  |    |           |
| 101             | 5-22                | 1.6<br>2.0           | 19<br>47<br>21 |              | BG        | SAND, fine grained w/ trace silt (0 to 1.0') FOSSILIFEROUS LIMESTONE (Castle Hill Fm) (1.0 to 1.1'). SAND, fine grained w/ trace silt and shell fragments. Light greenish gray and white, very dense, wet. | #0                       |  |    |           |
| 102             |                     | 80%                  | 20             |              |           |  |                          |  |    |           |
| 103             |                     |                      |                |              |           |  |                          |  |    |           |
| 104             |                     |                      |                |              |           |  |                          |  |    |           |
| 105             | 105.0               |                      |                |              |           |  |                          |  |    |           |
| 106             | 5-23                | .6<br>2.0            | 37             |              | BG        | SAND, fine grained w/ trace silt and shell material. Light greenish gray and white, very dense, wet.   | #2                       |  |    |           |
| 107             |                     | 30%                  | 5 1/4"         |              |           |  |                          |  |    |           |
| 108             |                     |                      |                |              |           |  |                          |  |    |           |
| 109             |                     |                      |                |              |           |  |                          |  |    |           |
| 110             | 110.0               |                      |                |              |           | Match to Sheet <u>7</u>  | #5                       |  | #5 |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GWTDW SHEET 6 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GWTDW

| 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   |                     |                      |                      |              |           |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD           | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
| 111             | S-24                | .9<br>2.0            | 47<br>5 1/5"         |              | BG        | Continued from Sheet <u>6</u><br>SAND, fine grained w/ trace silt and shell material. Light greenish gray and white, very dense, wet. | #5                       |           |
| 112             |                     | 45%                  |                      |              |           |   |                          |           |
| 113             |                     |                      |                      |              |           |   |                          | #7        |
| 114             |                     |                      |                      |              |           |   |                          |           |
| 115             |                     |                      |                      |              |           |   |                          |           |
| 116             | S-25                | 1.6<br>2.0           | 17<br>19<br>29<br>33 |              | BG        | SAND, fine grained w/ trace silt. Greenish gray, dense, wet.  |                          |           |
| 117             |                     | 80%                  |                      |              |           |   |                          |           |
| 118             |                     |                      |                      |              |           |   |                          |           |
| 119             |                     |                      |                      |              |           |   |                          |           |
| 120             |                     |                      |                      |              |           |   | #8                       |           |
| 121             | S-26                | NR                   | 41<br>5 1/3"         |              | -         | NO RECOVERY   |                          |           |
| 122             |                     |                      |                      |              |           |   |                          |           |
| 123             |                     |                      |                      |              |           |   |                          |           |
| 124             |                     |                      |                      |              |           |   |                          |           |
| 125             |                     |                      |                      |              |           |   |                          |           |
| 126             | S-27                | NR                   | 42<br>5 1/3"         |              | -         | NO RECOVERY   |                          |           |
| 127             |                     |                      |                      |              |           |   |                          |           |
| 128             |                     |                      |                      |              |           |   | #5                       |           |
| 129             |                     |                      |                      |              |           |   |                          |           |
| 130             |                     |                      |                      |              |           | Match to Sheet <u>8</u>   |                          |           |

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J.E. Zimmerman

BORING NO.: 28GWTDW SHEET 7 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 1 - FCLDA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GWTDW

| 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   |                     |                      |            |              |           |   |                          |    |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail |    | Elevation |
| 131             | S-28                | 1.3                  | 29         |              | BG        | Continued from Sheet <u>7</u><br>SAND, fine grained w/<br>trace silt. Greenish<br>gray, very dense, wet | #5                       | #5 | -125.97   |
| 132             |                     | 2.0                  | 40         |              |           |   |                          |    |           |
| 132             | 132.0               | 65%                  | 51<br>5"   |              |           | End of Boring<br>TD 132.0'  |                          |    |           |
| 133             |                     |                      |            |              |           |   |                          |    |           |
| 134             |                     |                      |            |              |           |   |                          |    |           |
| 135             |                     |                      |            |              |           |   |                          |    |           |
| 6               |                     |                      |            |              |           |   |                          |    |           |
| 7               |                     |                      |            |              |           |   |                          |    |           |
| 8               |                     |                      |            |              |           |   |                          |    |           |
| 9               |                     |                      |            |              |           |   |                          |    |           |
| 0               |                     |                      |            |              |           |   |                          |    |           |
| 1               |                     |                      |            |              |           |   |                          |    |           |
| 2               |                     |                      |            |              |           |   |                          |    |           |
| 3               |                     |                      |            |              |           |   |                          |    |           |
| 4               |                     |                      |            |              |           |   |                          |    |           |
| 5               |                     |                      |            |              |           |   |                          |    |           |
| 6               |                     |                      |            |              |           |   |                          |    |           |
| 7               |                     |                      |            |              |           |   |                          |    |           |
| 8               |                     |                      |            |              |           |   |                          |    |           |
| 9               |                     |                      |            |              |           |   |                          |    |           |
| 0               |                     |                      |            |              |           |   |                          |    |           |

Match to Sheet \_\_\_\_\_

DRILLING CO.: Hardin-Huber, Inc.

DRILLER: C. Chism

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GWTDW SHEET 8 OF 8

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW9DW

COORDINATES: EAST: 2498283.33

NORTH: 332886.18

ELEVATION: SURFACE: 4.50

TOP OF PVC CASING: 6.91

|              |             |        |        |             |         |               |                       |                  |      |
|--------------|-------------|--------|--------|-------------|---------|---------------|-----------------------|------------------|------|
| RIG: #48     |             |        |        |             |         |               |                       |                  |      |
|              | SPLIT SPOON | CASING | AUGERS | CORE BARREL | DATE    | PROGRESS (FT) | WEATHER               | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.) | 1-3/8" ID   | 8"     |        |             | 4-7-94  | 0-51'         | clear, mild (70's)    | 2.5              |      |
| LENGTH       | 2.0'        | 51.0'  |        |             | 4-9-94  | 51'-71'       | clear, cool (50's)    |                  |      |
| TYPE         | Std.        | Steel  |        |             | 4-11-94 | 71'-111'      | overcast, mild (70's) |                  |      |
| HAMMER WT.   | 140#        |        |        |             | 4-12-94 | 111'-126'     | clear, mild (60's)    |                  |      |
| FALL         | 30"         |        |        |             |         |               |                       |                  |      |
| STICK UP     |             |        |        |             |         |               |                       |                  |      |

REMARKS: Boring sampled to 126.0'. H<sub>2</sub>O background range is .2 ppm to 2.3 ppm.

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | 2"   | PVC Threaded - Sch. 40       | +2.5'          | 111.0'(bgs)       |
| T = Shelby Tube | W = Wash   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 111.0'(bgs)    | 126.0'(bgs)       |
| R = Air Rotary  | C = Core   |                  |      |                              |                |                   |
| D = Denison     | P = Piston |                  |      |                              |                |                   |
| N = No Sample   |            |                  |      |                              |                |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|---|--------------------------|-----------|
| 1           | S-1                 | 1.7<br>2.0         | 9<br>17    | 01           | BG        | Rooted zone (Dark Brown)<br>SILTY SAND, fine grained<br>Brown, dense, damp to moist | 8" steel casing          |           |
| 2           |                     | 85%                | 16         |              |           | SAND, fine grained<br>w/ trace silt. Brown,<br>medium dense, wet.                   |                          |           |
| 3           | S-2                 | .6<br>2.0          | 18<br>18   |              | BG        |   |                          |           |
| 4           |                     | 30%                | 7          |              |           |   |                          |           |
| 5           |                     |                    |            |              |           |   |                          |           |
| 6           |                     |                    |            |              |           |   |                          |           |
| 7           |                     |                    |            |              |           |   |                          |           |
| 8           |                     |                    |            |              |           |   |                          |           |
| 9           |                     |                    |            |              |           |   |                          |           |
| 10          | S-3                 | 1.6<br>2.0         | 7<br>9     |              | BG        | SAND, fine grained w/<br>trace silt. Match to Sheet 2                               |                          |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J.E. Zimmerman

BORING NO.: 28GW9DW

SHEET 1 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW9DW

| 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   |                     |                      |                |              |           |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD     | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
| 11              | 11.0 S-3            | 80%                  | 18<br>19       |              | BG        | Continued from Sheet 1<br>Gray, medium dense, wet. Oxidation streaks (orange) are occasional.   | #0<br>8" steel casing    |           |
| 12              |                     |                      |                |              |           |   |                          |           |
| 13              |                     |                      |                |              |           |   |                          |           |
| 14              | 14.0                |                      |                |              |           |   |                          |           |
| 15              | S-4                 | 2.0<br>2.0           | 3<br>5<br>7    |              | BG        | SILTY CLAY (0 to 1.4') and (1.6 to 2.0'). SAND, fine grained (1.4 to 1.6'). Organic material (peat) (1.6' only). Gray to dark brown, soft to medium dense, wet. |                          |           |
| 16              | 16.0                | 100%                 | 12             |              |           |   |                          |           |
| 17              |                     |                      |                |              |           |   |                          |           |
| 18              |                     |                      |                |              |           |   |                          |           |
| 19              | 19.0                |                      |                |              |           |   |                          |           |
| 20              | S-5                 | .9<br>2.0            | 12<br>23<br>39 |              | BG        | SAND, fine grained w/ trace silt. Brown to yellowish brown, very dense, wet   | #7                       |           |
| 21              | 21.0                | 45%                  | 26             |              |           |   |                          |           |
| 22              |                     |                      |                |              |           |   |                          |           |
| 23              |                     |                      |                |              |           |   |                          |           |
| 24              | 24.0                |                      |                |              |           |   |                          |           |
| 25              | S-6                 | 1.7<br>2.0           | 18<br>52<br>67 |              | BG        | SAND, fine grained w/ trace silt. Brown to yellowish brown, very dense, wet.  |                          |           |
| 26              | 26.0                | 85%                  | 48             |              |           |   |                          |           |
| 27              |                     |                      |                |              |           |   |                          |           |
| 28              |                     |                      |                |              |           |   |                          |           |
| 29              | 29.0                |                      |                |              |           |   | #0                       |           |
| 30              | S-7                 | 2.0<br>2.0<br>100%   | 18<br>28       |              | BG        | SAND, fine to medium grained w/ Match to Sheet 3  |                          |           |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GW9DW

SHEET 2 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW9DW

| 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   |                     |                      |            |                  |           |  |                          |           |  |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.     | PID (ppm) | Visual Description   | Well Installation Detail | Elevation |  |
| 31              | 31.0                | S-7                  | 100%       | 32<br>35         | BG        | Continued from Sheet <u>2</u><br>trace silt and gravel.<br>Brown, very dense,<br>wet.                                      | 8" steel casing          |           |  |
| 32              |                     |                      |            |                  |           |  |                          |           |  |
| 33              |                     |                      |            |                  |           |  |                          |           |  |
| 34              | 34.0                |                      |            |                  |           |  |                          |           |  |
| 35              |                     | S-8                  | 1.6<br>2.0 | 18<br>27<br>36   | BG        | SAND, fine to medium<br>grained w/ trace silt.<br>Organic material (7)<br>Brown to yellowish<br>brown, very dense,<br>wet. |                          |           |  |
| 36              | 36.0                |                      | 80%        | 54               |           |  |                          |           |  |
| 37              |                     |                      |            |                  |           |  |                          |           |  |
| 38              |                     |                      |            |                  |           |  |                          |           |  |
| 39              | 39.0                |                      |            |                  |           |  |                          |           |  |
| 40              |                     | S-9                  | .8<br>2.0  | 20<br>37<br>59   | BG        | SAND, fine to medium<br>grained w/ trace silt.<br>Brown to yellowish<br>brown, very dense,<br>wet.                         |                          |           |  |
| 41              | 41.0                |                      | 40%        | 2"<br>2"         |           |  |                          |           |  |
| 42              |                     |                      |            |                  |           |  |                          |           |  |
| 43              |                     |                      |            |                  |           |  |                          |           |  |
| 44              | 44.0                |                      |            |                  |           |  |                          |           |  |
| 45              |                     | S-10                 | 1.8<br>2.0 | 45<br>100<br>100 | BG        | SAND, fine to medium<br>grained w/ trace silt.<br>Fine gravel (1.1 to 1.2)<br>Brown, very dense,<br>wet.                   |                          |           |  |
| 46              | 46.0                |                      | 90%        | 5"<br>5"         |           |  |                          |           |  |
| 47              |                     |                      |            |                  |           |  |                          |           |  |
| 48              |                     |                      |            |                  |           |  |                          |           |  |
| 49              | 49.0                |                      |            |                  |           |  |                          |           |  |
| 50              |                     | S-11                 | 1.2<br>2.0 | 58<br>102        | BG        | SAND, fine to medium<br>grained w/ Match to Sheet <u>4</u>   |                          |           |  |

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GW9DW SHEET 3 OF 7



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW90W

| 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   |                     |                      |                  |              |           |   |                          |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD       | Samp. Desig. | PID (ppm) | Visual Description  | Well Installation Detail | Elevation |
| 51              | S-11                | 60%                  | 100<br>4"        |              | BG        | Continued from Sheet <u>3</u><br>trace fine gravel (1.0 to 1.1'). Brown, very dense, wet. | 8" steel casing          |           |
| 52              |                     |                      |                  |              |           |   | #0                       |           |
| 53              |                     |                      |                  |              |           |   |                          |           |
| 54              |                     |                      |                  |              |           |   |                          |           |
| 55              | S-12                | 1.5<br>2.0           | 53<br>67<br>77   |              | BG        | SAND, fine to medium grained w/ trace fine gravel. Brown, very dense, wet.                |                          |           |
| 56              |                     | 75%                  | 88               |              |           |   |                          |           |
| 57              |                     |                      |                  |              |           |   |                          |           |
| 58              |                     |                      |                  |              |           |   |                          |           |
| 59              |                     |                      |                  |              |           |   |                          |           |
| 60              | S-13                | .6<br>2.0            | 68<br>115<br>103 |              | BG        | SAND, fine grained w/ trace silt. Green, very dense, wet.                                 |                          |           |
| 61              |                     | 30%                  | 123              |              |           |   | #7                       |           |
| 62              |                     |                      |                  |              |           |   |                          |           |
| 63              |                     |                      |                  |              |           |   |                          |           |
| 64              |                     |                      |                  |              |           |   |                          |           |
| 65              | S-14                | .6<br>2.0            | 20<br>40<br>100  |              | BG        | SAND, fine grained w/ trace silt. Green, very dense, wet.                                 |                          |           |
| 66              |                     | 30%                  | 5"               |              |           |   |                          |           |
| 67              |                     |                      |                  |              |           |   |                          |           |
| 68              |                     |                      |                  |              |           |   |                          |           |
| 69              |                     |                      |                  |              |           |   | #0                       |           |
| 70              | S-15                | .5<br>2.0            | 70<br>82         |              | BG        | SAND, fine grained w/ trace silt. Match to Sheet <u>5</u>                                 |                          |           |

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GW90W SHEET 4 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW90W

| 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   |                     |                      |            |                        |           |   |                          |  |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.           | PID (ppm) | Visual Description  | Well Installation Detail |  |  | Elevation |
| 71              | 71.0                | S-15                 | 25%        | 100<br>5"              | BG        | Continued from Sheet <u>4</u><br>Green, very dense, wet.  | #0                       |  |  |           |
| 72              |                     |                      |            |                        |           |   |                          |  |  |           |
| 73              |                     |                      |            |                        |           |   |                          |  |  |           |
| 74              | 74.0                |                      |            |                        |           |   |                          |  |  |           |
| 75              |                     | S-16                 | 2.0        | 78<br>86<br>156<br>49  | BG        | SAND, fine grained w/<br>trace silt. Gray to<br>light green, very<br>dense, wet.                        | #7                       |  |  |           |
| 76              | 76.0                |                      |            |                        |           |   |                          |  |  |           |
| 77              |                     |                      |            |                        |           |   |                          |  |  |           |
| 78              |                     |                      |            |                        |           |   |                          |  |  |           |
| 79              | 79.0                |                      | 2.0        | 17<br>35<br>157<br>283 | BG        | SAND, fine grained w/<br>trace silt and shell<br>fragments. Gray to<br>light green, very<br>dense, wet. | #0                       |  |  |           |
| 80              |                     | S-17                 |            |                        |           |   |                          |  |  |           |
| 81              | 81.0                |                      |            |                        |           |   |                          |  |  |           |
| 82              |                     |                      |            |                        |           |   |                          |  |  |           |
| 83              |                     |                      |            |                        |           |   | #0                       |  |  |           |
| 84              | 84.0                |                      | 1.1        | 6<br>8<br>27<br>47     | BG        | SAND, fine grained w/<br>trace silt. Light<br>green, very dense<br>wet.                                 |                          |  |  |           |
| 85              |                     | S-18                 |            |                        |           |   |                          |  |  |           |
| 86              | 86.0                |                      |            |                        |           |   |                          |  |  |           |
| 87              |                     |                      |            |                        |           |   | #0                       |  |  |           |
| 88              |                     |                      |            |                        |           |   |                          |  |  |           |
| 89              | 89.0                |                      |            |                        |           |   |                          |  |  |           |
| 90              |                     | S-19                 | 1.9        | 6<br>9                 | BG        | SAND, fine grained w/<br>trace silt Match to Sheet <u>6</u>   |                          |  |  |           |

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GW90W SHEET 5 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW9DW

| 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   |                     |                      |            |                |           |  |                          |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description   | Well Installation Detail |  | Elevation |
| 91              | 91.0                | S-19                 | 95%        | 37<br>36       |           | Continued from Sheet <u>5</u><br>Light green, very dense<br>wet.   | #0                       |  |           |
| 92              |                     |                      |            |                |           |  | #7                       |  |           |
| 93              |                     |                      |            |                |           |  |                          |  |           |
| 94              | 94.0                |                      |            |                |           | SAND, fine grained w/<br>trace silt. Gray to<br>FOSSILIFEROUS LIMESTONE<br>(Castle Harb Fm)<br>Light green, very dense<br>wet. |                          |  |           |
| 95              |                     |                      | 1.0        | 28<br>69       |           |  | #0                       |  |           |
| 96              | 96.0                | S-20                 |            | 91<br>30       |           |  |                          |  |           |
| 97              |                     |                      |            |                |           |  | #2                       |  |           |
| 98              |                     |                      |            |                |           |  |                          |  |           |
| 99              | 99.0                |                      |            |                |           | SAND, fine to medium<br>grained w/ trace shell<br>material and micrite<br>cement. Light green,<br>very dense, wet              |                          |  |           |
| 100             |                     |                      | 1.1        | 70<br>75<br>45 |           |  | #7                       |  |           |
| 101             | 101.0               | S-21                 |            | 22             |           |  |                          |  |           |
| 102             |                     |                      |            |                |           |  |                          |  |           |
| 103             |                     |                      |            |                |           |  |                          |  |           |
| 104             | 104.0               |                      |            |                |           | SAND, fine to medium<br>grained w/ trace shell<br>material and micrite<br>cement. Light green,<br>very dense, wet.             | #2                       |  |           |
| 105             |                     |                      | 1.8        | 23<br>31<br>52 |           |  | #5                       |  |           |
| 106             | 106.0               | S-22                 |            | 35             |           |  |                          |  |           |
| 107             |                     |                      |            |                |           |  |                          |  |           |
| 108             |                     |                      |            |                |           |  | #7                       |  |           |
| 109             | 109.0               |                      |            |                |           | SAND, fine grained w/<br>trace silt Match to Sheet <u>7</u>  |                          |  |           |
| 110             |                     | S-23                 | 1.8        | 28<br>46       |           |  | #5                       |  |           |

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J. E. Zimmerman

BORING NO.: 28GW9DW SHEET 6 OF 7

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 28 - HPBD RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 28GW90W

| 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   |                     |                      |            |                |           |   |                          |  |           |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig.   | PID (ppm) | Visual Description  | Well Installation Detail |  | Elevation |
| 111             | 111.0               | S-23                 | 90%        | 48<br>65       | BG        | Continued from Sheet <u>6</u><br>Light green to gray,<br>very dense, wet. | #5                       |  |           |
| 112             |                     |                      |            |                |           |   |                          |  |           |
| 113             |                     |                      |            |                |           |   |                          |  |           |
| 114             | 114.0               |                      |            |                |           |   |                          |  |           |
| 115             |                     | S-24                 | .8<br>2.0  | 39<br>78<br>45 | BG        | SAND, fine grained w/<br>trace silt. Greenish<br>gray very dense, wet.    |                          |  |           |
| 116             | 116.0               |                      | 40%        | 65             |           |   |                          |  |           |
| 117             |                     |                      |            |                |           |   |                          |  |           |
| 118             |                     |                      |            |                |           |   | #8                       |  |           |
| 119             | 119.0               |                      |            |                |           |   |                          |  |           |
| 120             |                     | S-25                 | 1.4<br>2.0 | 17<br>25<br>47 | BG        | SAND, fine grained w/<br>trace silt. Greenish<br>gray, very dense, wet.   |                          |  |           |
| 121             | 121.0               |                      | 70%        | 40             |           |   |                          |  |           |
| 122             |                     |                      |            |                |           |   |                          |  |           |
| 123             |                     |                      |            |                |           |   |                          |  |           |
| 124             | 124.0               |                      |            |                |           |   |                          |  |           |
| 125             |                     | S-26                 | .8<br>2.0  | 17<br>32<br>45 | BG        | SAND, fine grained w/<br>trace silt. Greenish<br>gray, very dense, wet.   |                          |  |           |
| 126             | 126.0               |                      | 40%        | 106            |           |   | #5                       |  |           |
| 127             |                     |                      |            |                |           |   |                          |  |           |
| 128             | 128.0               |                      |            |                |           | End of Boring<br>TD 128.0'  |                          |  | -121.09   |
| 130             |                     |                      |            |                |           | Match to Sheet _____  |                          |  |           |

DRILLING CO.: EMTC

DRILLER: G. Moore

BAKER REP.: J.E. Zimmerman

BORING NO.: 28GW90W SHEET 7 OF 7

**SITE 30**

---

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp LejeuneS.O. NO.: 19231BORING NO.: 30-P201COORDINATES: EAST: 2512893.21NORTH: 318827.90ELEVATION: SURFACE: 32.5TOP OF PVC CASING: 35.33

|              |             |        |           |             |         |               |                   |                  |      |
|--------------|-------------|--------|-----------|-------------|---------|---------------|-------------------|------------------|------|
| RIG: # 220   |             |        |           |             | DATE    | PROGRESS (FT) | WEATHER           | WATER DEPTH (FT) | TIME |
|              | SPLIT SPOON | CASING | AUGERS    | CORE BARREL |         |               |                   |                  |      |
| SIZE (DIAM.) | 1-3/8" ID   |        | 4 1/4" ID |             | 3-23-94 | 0-25.0        | clear mild (60's) | -                |      |
| LENGTH       | 2.0'        |        | 5.0'      |             |         |               |                   |                  |      |
| TYPE         | Std.        |        | HSA       |             |         |               |                   |                  |      |
| HAMMER WT.   | 140#        |        |           |             |         |               |                   |                  |      |
| FALL         | 30"         |        |           |             |         |               |                   |                  |      |
| STICK UP     |             |        |           |             |         |               |                   |                  |      |

REMARKS: Boring not sampled. HWU background is .4 ppm.

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM | TYPE                         | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|------|------------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | 2"   | PVC Threaded - Sch. 40       | +1.5'          | 20 (bgs)          |
| T = Shelby Tube | W = Wash   | Well Screen      | 2"   | PVC Slotted No. 10 - Sch. 40 | 20 (bgs)       | 25 (bgs)          |
| R = Air Rotary  | C = Core   |                  |      |                              |                |                   |
| D = Denison     | P = Piston |                  |      |                              |                |                   |
| N = No Sample   |            |                  |      |                              |                |                   |

| Depth (Ft.) | Sample Type and No. | Samp. Rec. Ft. & % | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description    | Well Installation Detail | Elevation |
|-------------|---------------------|--------------------|------------|--------------|-----------|-----------------------|--------------------------|-----------|
| 1           |                     |                    |            |              |           |                       | # 0                      |           |
| 2           |                     |                    |            |              |           |                       |                          |           |
| 3           |                     |                    |            |              |           |                       |                          |           |
| 4           |                     |                    |            |              |           |                       |                          |           |
| 5           |                     |                    |            |              |           | No sampling completed | # 7                      |           |
| 6           |                     |                    |            |              |           |                       |                          |           |
| 7           |                     |                    |            |              |           |                       |                          |           |
| 8           |                     |                    |            |              |           |                       |                          |           |
| 9           |                     |                    |            |              |           |                       | # 0                      |           |
| 10          |                     |                    |            |              |           | Match to Sheet 2      |                          |           |

DRILLING CO.: EMTCBAKER REP.: J. E. ZimmermanDRILLER: G. BarnesBORING NO.: 30-P201

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 30 - SFRFTSA RI/FS MCB Camp Lejeune

S.O. NO.: 19231

BORING NO.: 30-P201

| 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   |                     |                      |            |              |           |  |                          |    |    |           |  |
| Depth (Ft.)     | Sample Type and No. | Samp. Rec. (Ft. & %) | SPT or RQD | Samp. Desig. | PID (ppm) | Visual Description   | Well Installation Detail |    |    | Elevation |  |
| 11              |                     |                      |            |              |           | Continued from Sheet 1<br><br><br><br><br>No sampling completed<br><br><br><br><br><br><br><br><br>End of Boring<br>TD 26.0' | #0                       |    |    |           |  |
| 12              |                     |                      |            |              |           |  |                          | #7 |    |           |  |
| 13              |                     |                      |            |              |           |  |                          |    | #0 |           |  |
| 14              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 15              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 16              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 17              |                     |                      |            |              |           |  |                          | #2 | #2 |           |  |
| 18              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 19              |                     |                      |            |              |           |  |                          |    | #7 |           |  |
| 20              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 21              |                     |                      |            |              |           |  | #5                       |    |    |           |  |
| 22              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 23              |                     |                      |            |              |           |  |                          | #8 |    |           |  |
| 24              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 25              |                     |                      |            |              |           |  |                          |    | #5 |           |  |
| 26              |                     |                      |            |              |           |  |                          |    |    | 6.50      |  |
| 27              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 28              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 29              |                     |                      |            |              |           |  |                          |    |    |           |  |
| 30              |                     |                      |            |              |           |  |                          |    |    |           |  |

Match to Sheet 3

DRILLING CO.: EMTC

DRILLER: G. Barnes

BAKER REP.: J. E. Zimmerman

BORING NO.: 30-P201

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 30 SFRPTSA RIIES MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 30-GW-03  
 COORDINATES: EAST: 2514578.58 NORTH: 318923.62  
 ELEVATION: SURFACE: 40.5 TOP OF PVC CASING: 43.17

| RIG: <u>B-57</u> |                  |                    |                  |             |                |               |                         |                  |      |
|------------------|------------------|--------------------|------------------|-------------|----------------|---------------|-------------------------|------------------|------|
|                  | SPLIT SPOON      | CASING             | AUGERS           | CORE BARREL | DATE           | PROGRESS (FT) | WEATHER                 | WATER DEPTH (FT) | TIME |
| SIZE (DIAM.)     | <u>1 3/8" ID</u> | <u>2"</u>          | <u>6 1/4" ID</u> |             | <u>3-24-94</u> | <u>17'</u>    | <u>CLEAR &amp; WARM</u> | <u>3'</u>        |      |
| LENGTH           | <u>2.0</u>       | <u>17.5'</u>       | <u>5.0</u>       |             |                |               |                         |                  |      |
| TYPE             | <u>STD</u>       | <u>PVC SCH. 40</u> | <u>HSA</u>       |             |                |               |                         |                  |      |
| HAMMER WT.       | <u>140#</u>      |                    |                  |             |                |               |                         |                  |      |
| FALL             | <u>30"</u>       |                    |                  |             |                |               |                         |                  |      |
| STICK UP         |                  |                    |                  |             |                |               |                         |                  |      |

REMARKS: HAV BACKGROUND (BG) =

| SAMPLE TYPE     |            | WELL INFORMATION | DIAM      | TYPE                   | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|-----------------|------------|------------------|-----------|------------------------|----------------|-------------------|
| S = Split Spoon | A = Auger  | Well Casing      | <u>2"</u> | <u>SCH. 40 PVC</u>     | <u>0</u>       | <u>2.47</u>       |
| T = Shelby Tube | W = Wash   | Well Screen      | <u>2"</u> | <u>SCH 40 PVC .010</u> | <u>2.47</u>    | <u>17.5</u>       |
| 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           | LAB GRAB            | 100%                    | 1          | ∞                        | 0         | <u>4" Top Soil</u><br><u>SAND-FINE TRAC SITT</u><br><u>BLACK TO LIGHT GRAY. DAMP</u> | 1                        | 1 |   |           |
|             |                     | <u>.92</u><br><u>2</u>  | 2          |                          |           |  | 2                        | 7 | 2 |           |
| 2           | LAB S-1             |                         | 3          | 01                       |           | <u>SAND-FINE LITTLE SITT</u><br><u>LIGHT BROWN. WET.</u><br><u>LOOSE</u>             |                          |   |   |           |
| 3           |                     | <u>46%</u>              | 2          |                          |           | <u>WATER @ 3'</u>  |                          |   |   |           |
|             |                     | <u>0</u><br><u>2</u>    | 3          |                          |           |  |                          |   |   |           |
| 4           | S-2                 |                         | 1          |                          |           | <u>NO RECOVERY</u>   |                          |   |   |           |
|             |                     | <u>0%</u>               | 4          |                          |           |  |                          |   |   |           |
| 5           |                     | <u>1.16</u><br><u>2</u> | 3          |                          |           | <u>SAND-FINE AND SITT.</u><br><u>BLACK. WET</u><br><u>LOOSE</u>                      | 5                        | 8 | 5 |           |
| 6           | S-3                 |                         | 3          |                          |           |  |                          |   |   |           |
|             |                     | <u>58%</u>              | 4          |                          |           |  |                          |   |   |           |
| 7           |                     |                         | 2          |                          |           |  |                          |   |   |           |
| 8           |                     |                         |            |                          |           |  |                          |   |   |           |
| 9           | AN                  |                         |            |                          |           |  |                          |   |   |           |

Match to Sheet 2

DRILLING CO.: EMTC

BAKER REP.: KENNETH A. TUA

DRILLER: JIM MARSH

BORING NO.: 30GW03

SHEET 1 OF 2



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: SITE 30 SFRFSA RI/IS MCB CAMP LEJEUNE  
 S.O. NO.: 62470-231 BORING NO.: 30 GW03

| 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                 | $\frac{R}{2}$        | 3<br>15<br>17 |                          |           | Continued from Sheet<br>SAND-FINE AND SILT<br>BLACK, WET.<br>DENSE | 8                        |   |   |           |
| 12              |                     | 100%                 | 18            |                          |           |  | 7                        |   |   |           |
| 13              |                     |                      |               |                          |           |  |                          |   |   |           |
| 14              | A-N                 |                      |               |                          |           |  |                          |   |   |           |
| 15              |                     |                      |               |                          |           |  | 5                        | 8 | 5 |           |
| 16              | S-5                 | $\frac{2}{2}$        | 8<br>12<br>15 |                          |           | SAND-FINE TRACE SAND-MEDIUM<br>BLACK, WET<br>MED-DENSE             |                          |   |   |           |
| 17              |                     | 100%                 | 17            |                          |           |  |                          |   |   |           |
| 17.5            | N                   |                      |               |                          |           | END OF BORING 17.5'  | 7                        |   |   | 25.67     |
| 18              |                     |                      |               |                          |           |  |                          |   |   |           |
| 19              |                     |                      |               |                          |           |  |                          |   |   |           |
| 20              |                     |                      |               |                          |           |  |                          |   |   |           |
| 1               |                     |                      |               |                          |           |  |                          |   |   |           |
| 2               |                     |                      |               |                          |           |  |                          |   |   |           |
| 3               |                     |                      |               |                          |           |  |                          |   |   |           |
| 4               |                     |                      |               |                          |           |  |                          |   |   |           |
| 5               |                     |                      |               |                          |           |  |                          |   |   |           |
| 6               |                     |                      |               |                          |           |  |                          |   |   |           |
| 7               |                     |                      |               |                          |           |  |                          |   |   |           |
| 8               |                     |                      |               |                          |           |  |                          |   |   |           |
| 0               |                     |                      |               |                          |           | Match to Sheet   |                          |   |   |           |

**APPENDIX C**  
**CHAIN-OF-CUSTODY FORMS**

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**SITE 1**

---

# CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

01001  
~~01-00~~  
**0133**

| Proj. #   |      | Project name    |            | Sample Matrix           | Number of containers | Analyses  |          |  |                       |  |  |  |         | Remarks |
|---|------|-----------------|------------|-------------------------|----------------------|-----------|----------|--|-----------------------|--|--|--|---------|---------|
| 62470-231     62470-231 Site 2                          |      |                 |            |                         |                      | TCL VOA   | TCL SVOA | TAL Metals   | TCL PCBs              |  |  |  |         |         |
| Samplers (Please print)<br>Aaron Bernhart / Mike Muslim |      |                 |            |                         |                      | DATE      | Time     | Comp. Grab.  | Sample Identification |  |  |  |         |         |
| 03/22/94  | 1556 | G               | 1-SDOZ-06  | S                       | 3                    | X         | X        | X  | X                     |  |  |  | Routine |         |
| 03/22/94  | 1600 | G               | 1-SDOZ-612 | S                       | 3                    | X         | X        | X  | X                     |  |  |  | Routine |         |
| 03/22/94  | 1925 | G               | 1-SDER-01  | L                       | 5                    | X         | X        | X  | X                     |  |  |  | Routine |         |
| 3/23/94   | 1300 | G               | 1-TB-01    | L                       | 2                    | X         |          |  |                       |  |  |  | Routine |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
|   |      |                 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
| Relinquished by (Signature)                             |      | Date/Time       |            | Received by (Signature) |                      | Date/Time |          | Remarks: - See Remarks for sample turnaround<br>- Airbill # 1630421995 |                       |  |  |  |         |         |
| <i>Th. F. Lafollet</i>                                  |      | 3/23/94<br>1530 |            |                         |                      |           |          |  |                       |  |  |  |         |         |
| Relinquished by (Signature)                             |      | Date/Time       |            | Received by (Signature) |                      | Date/Time |          |  |                       |  |  |  |         |         |
| Relinquished by (Signature)                             |      | Date/Time       |            | Received by (Signature) |                      | Date/Time |          |  |                       |  |  |  |         |         |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

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COC# 01002

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| Proj. #                     |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |               |            | Remarks * |  |         |  |
|-----------------------------|------|-----------------|-------------------------|---------------|----------------------|---|---------------|------------|-----------|--|---------|--|
| Samplers (Please print)     |      |                 |                         |               |                      | TCL SVOA<br>PCH/PEB                                   | TAL<br>Metals | TCL<br>VOA |           |  |         |  |
| A. Barnhardt                |      |                 |                         |               |                      |   |               |            |           |  |         |  |
| DATE                        | Time | Comp. Grab.     | Sample Identification   |               |                      |   |               |            |           |  |         |  |
| 03-22-94                    | 1605 | G               | 1-SD01-06               | S             | 6                    | X   | X             | X          |           |  | Routine |  |
| 03-23-94                    | 1605 | G               | 1-SD01-06D              | S             | 3                    | X   | X             | X          |           |  | Routine |  |
| 03-23-94                    | 1605 | G               | 1-SD01-612              | S             | 3                    | X   | X             | X          |           |  | Routine |  |
| 3-24-94                     | 1400 | G               | 1- <del>SD</del> TB-01  | L             | 2                    |   |               | X          |           |  | Routine |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
|                             |      |                 |                         |               |                      |   |               |            |           |  |         |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>* Turnaround Time<br>Airbill # 1630422006 |               |            |           |  |         |  |
| <i>The F. F. F. F.</i>      |      | 3-24-94<br>1500 |                         |               |                      |   |               |            |           |  |         |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |               |            |           |  |         |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |               |            |           |  |         |  |

**CHAIN OF CUSTODY**      coc # 01003  
Original Chain of Custody goes to Laboratory

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| Proj. #                                      |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     | Remarks |        |     |
|--|------|-----------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)                      |      |                 |                         |               |                      | TCL   | VOA | TCL | SVOA | TCL | Pest/PCB | TAL |         | Metals | TPH |
| DATE   | Time | Comp. Grab.     | Sample Identification   |               |                      |   |     |     |      |     |          |     |         |        |     |
| 62470-231 MCB Campejeune - site 1            |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| KTua <sup>Ⓟ</sup> / A Bernhardt <sup>Ⓟ</sup> |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| 3-28<br>94                                   | 1015 | G               | 1-SIER-01               | L             | 8                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-28<br>94                                   | 1640 | G               | 1-N-SB19-00             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-28<br>94                                   | 1659 | G               | 1-N-SB19-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-28<br>94                                   | 1718 | G               | 1-N-SB29-00             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-28<br>94                                   | 1727 | G               | 1-N-SB29-02             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-28<br>94                                   | 1810 | G               | 1-TB-03                 | L             | 2                    | X   |     |     |      |     |          |     | Routine |        |     |
| 3-29<br>94                                   | 0815 | G               | 1-N-SB30-00             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-29<br>94                                   | 0839 | G               | 1-N-SB30-03             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-29<br>94                                   | 0857 | G               | 1-N-SB36-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-29<br>94                                   | 0932 | G               | 1-N-SB36-06             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
|  |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|  |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|  |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|  |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature)                  |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for Sample Turnaround<br>- Airbill # 1630422220 |     |     |      |     |          |     |         |        |     |
| <i>Th. F. Z...</i>                           |      | 3-29-94<br>1509 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature)                  |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature)                  |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

coc# 01004

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| Proj. #                                     |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     | Remarks |        |     |
|---|------|-----------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)                     |      |                 |                         |               |                      | TCL   | VOA | TCL | SUOA | TCL | Pest/PCB | TAL |         | Metals | TPH |
| DATE  | Time | Comp. Grab.     | Sample Identification   |               |                      |   |     |     |      |     |          |     |         |        |     |
| 62470-231 MCB Camp Lejeune - Site 1         |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| J Zimmerman (A) / K Twa (B) / M Toubie (A+) |      |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| 3-29-94                                     | 0943 | G               | 1-N-SB27-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-29-94                                     | 0956 | G               | 1-N-SB27-05             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-29-94                                     | 1010 | G               | 1-N-SB25-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-29-94                                     | 1041 | G               | 1-N-SB25-06             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-29-94                                     | 1045 | G               | 1-N-SB31-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-29-94                                     | 1055 | G               | 1-N-SB31-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-29-94                                     | 1117 | G               | 1-N-SB24-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-29-94                                     | 1152 | G               | 1-N-SB24-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-29-94                                     | 1202 | G               | 1-N-SB24-07             | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |        |     |
| 3-29-94                                     | 1208 | G               | 1-N-SB28-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |        |     |
| 3-29-94                                     | 1220 | G               | 1-N-SB28-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |        |     |
| 3-29-94                                     | 1233 | G               | 1-N-SB21-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |        |     |
| 3-29-94                                     | 1250 | G               | 1-N-SB21-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |        |     |
| 3-29-94                                     | 1303 | G               | 1-N-SB21-07             | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |        |     |
| Relinquished by (Signature)                 |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turn<br>- Airbill # 1630422194 |     |     |      |     |          |     |         |        |     |
| Th. F. Tuberville                           |      | 3-30-94<br>1500 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature)                 |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature)                 |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 01004

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| Proj. #                             |      | Project name |  | Sample Matrix | Number of containers | Analyses |     |     |      |     |         |     |        |     |   |  |         |         |
|-------------------------------------|------|--------------|--|---------------|----------------------|----------|-----|-----|------|-----|---------|-----|--------|-----|---|--|---------|---------|
| 62470-231 MCB Camp Lejeune - Site 1 |      |              |  |               |                      | TCL      | VOA | TCL | SVOA | TCL | Res/PEB | TAL | Metals | TPH |   |  | *MS/MSD | Remarks |
| DATE                                | Time | Comp. Grab.  | Sample Identification                  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
| 3-29<br>94                          | 1320 | G            | 1-N-SB37-01                            | S             | 3                    | X        | X   | X   | X    | X   | X       |     |        |     |   |  | Routine |         |
| 3-29<br>94                          | 1328 | G            | 1-N-SB37-02                            | S             | 3                    | X        | X   | X   | X    | X   | X       |     |        |     |   |  |         |         |
| 3-29<br>94                          | 1359 | G            | 1-N-SB26-01D                           | S             | 3                    | X        | X   | X   | X    | X   | X       |     |        |     |   |  |         |         |
| 3-29<br>94                          | 1359 | G            | 1-N-SB26-01 <sup>7 FT</sup><br>3-26-94 | S             | 3/6                  | X        | X   | X   | X    | X   | X       |     |        |     | X |  |         |         |
| 3-29<br>94                          | 1405 | G            | 1-N-SB20-00                            | S             | 3                    | X        | X   | X   | X    | X   | X       |     |        |     |   |  |         |         |
| 3-29<br>94                          | 1422 | G            | 1-N-SB20-05                            | S             | 3                    | X        | X   | X   | X    | X   | X       |     |        |     |   |  |         |         |
| 3-30<br>94                          | 0800 | G            | 1-TB-04                                | L             | 2                    | X        |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |
|                                     |      |              |  |               |                      |          |     |     |      |     |         |     |        |     |   |  |         |         |

|  |                              |                         |           |  |
|--|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Th. F. Fiedler</i> | Date/Time<br>3-30-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn<br>- Airbill # 1630422194<br>*MS/MSD |
| Relinquished by (Signature)                          | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                          | Date/Time                    | Received by (Signature) | Date/Time |  |



**CHAIN OF CUSTODY**  
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| Proj. #                                      |    | Project name |   | Sample Matrix | Number of containers | Analyses |      |             |                       |     |     |     |      |     |          | *MS/MSD | Remarks |         |        |     |
|--|----|--------------|---|---------------|----------------------|----------|------|-------------|-----------------------|-----|-----|-----|------|-----|----------|---------|---------|---------|--------|-----|
| Samplers (Please print)                      |    |              |   |               |                      | DATE     | Time | Comp. Grab. | Sample Identification | TCL | VOA | TCL | SVOA | TCL | Pest/REB |         |         | TAL     | Metals | TPH |
| ↓ Zimmerman (A) / K. Liu (B) / M. Taube (AL) |    |              |   |               |                      |          |      |             |                       |     |     |     |      |     |          |         |         |         |        |     |
| 3-29   | 94 | 1416         | G | 1-N-SB26-04   | S                    | 6        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | Routine |        |     |
| 3-29   | 94 | 1416         | G | 1-N-SB26-04D  | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       |         |        |     |
| 3-29   | 94 | 1500         | G | 1-N-SB35-01   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       |         |        |     |
| 3-29   | 94 | 1524         | G | 1-N-SB35-06   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       |         |        |     |
| 3-29   | 94 | 1536         | G | 1-S-SB10-01   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       |         |        |     |
| 3-29   | 94 | 1544         | G | 1-S-SB10-04   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | 7-day   |        |     |
| 3-29   | 94 | 1602         | G | 1-S-SB10-08   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | 7-day   |        |     |
| 3-29   | 94 | 1702         | G | 1-N-SB34-01   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | Routine |        |     |
| 3-29   | 94 | 1745         | G | 1-N-SB34-03   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | Routine |        |     |
| 3-29   | 94 | 1820         | G | 1-N-SB34-07   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | Routine |        |     |
| 3-29   | 94 | 1715         | G | 1-S-SB01-01   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | Routine |        |     |
| 3-29   | 94 | 1728         | G | 1-S-SB01-04   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | 7-day   |        |     |
| 3-29   | 94 | 1738         | G | 1-S-SB01-08   | S                    | 3        | X    | X           | X                     | X   | X   | X   | X    | X   | X        | X       | X       | 7-day   |        |     |
| 3-30   | 94 | 0845         | G | 1-TB-05       | L                    | 2        | X    |             |                       |     |     |     |      |     |          |         |         | Routine |        |     |

|   |                              |                         |           |  |
|---|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Th. F. Tuttle</i> | Date/Time<br>3-30-94<br>1506 | Received by (Signature) | Date/Time | Remarks:<br>*MS/MSD<br>- See Remarks for sample turn<br>- Airbill # 1630422194 |
| Relinquished by (Signature)                         | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                         | Date/Time                    | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY**  
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| Proj. #                                   |      | Project name              |                         | Sample Matrix | Number of containers | Analyses  |          |              |            |     |  |  | Remarks |
|---|------|---------------------------|-------------------------|---------------|----------------------|---|----------|--------------|------------|-----|--|--|---------|
| Samplers (Please print)                   |      |                           |                         |               |                      | TCL VOC   | TCL SVOC | TCL Pest/PCB | TAL Metals | TPH |  |  |         |
| DATE                                      | Time | Comp. Grab.               | Sample Identification   |               |                      |   |          |              |            |     |  |  |         |
| 62470-231                                 |      | MCB Camp Lejeune - Site 1 |                         |               |                      |   |          |              |            |     |  |  |         |
| J Zimmerman (A) / K Tua (B) / M Taube (A) |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
| 3-30-94                                   | 1100 | G                         | 231-FB-01               | L             | 8                    | X   | X        | X            | X          | X   |  |  | Routine |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
| Relinquished by (Signature)               |      | Date/Time                 | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turn<br>- Airbill # 1630422194 |          |              |            |     |  |  |         |
| Th F. Talib                               |      | 3-30-94<br>1500           |                         |               |                      |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
| Relinquished by (Signature)               |      | Date/Time                 | Received by (Signature) |               | Date/Time            |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |
| Relinquished by (Signature)               |      | Date/Time                 | Received by (Signature) |               | Date/Time            |   |          |              |            |     |  |  |         |
|   |      |                           |                         |               |                      |   |          |              |            |     |  |  |         |

**CHAIN OF CUSTODY**  
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| Proj. #                     |                           | Project name    |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     | Remarks |        |     |
|-----------------------------|---------------------------|-----------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)     |                           |                 |                         |               |                      | TCL   | LoA | TCL | SVOA | TCL | Pest/PCB | TAL |         | Metals | TPH |
| DATE                        | Time                      | Comp. Grab.     | Sample Identification   |               |                      |   |     |     |      |     |          |     |         |        |     |
| 62470-731                   | MCR Camp Lejeune - Site 1 |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| M Taube (A) / K Tua (B)     |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| 3-30-94                     | 0810                      | G               | 1-S-SB17-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 3-30-94                     | 0821                      | G               | 1-S-SB17-03             | S             | 3                    |   |     |     |      |     |          |     | Routine |        |     |
| 3-30-94                     | 0835                      | G               | 1-S-SB17-06             | S             | 3                    |   |     |     |      |     |          |     | Routine |        |     |
| 3-30-94                     | 0822                      | G               | 1-S-SB11-01             | S             | 3                    |   |     |     |      |     |          |     | Routine |        |     |
| 3-30-94                     | 0827                      | G               | 1-S-SB11-03             | S             | 3                    |   |     |     |      |     |          |     | 7-day   |        |     |
| 3-30-94                     | 0834                      | G               | 1-S-SB11-06             | S             | 3                    |   |     |     |      |     |          |     | 7-day   |        |     |
| 3-30-94                     | 0924                      | G               | 1-S-SB03-01             | S             | 3                    |   |     |     |      |     |          |     | Routine |        |     |
| 3-30-94                     | 0932                      | G               | 1-S-SB03-03             | S             | 3                    |   |     |     |      |     |          |     | 7-day   |        |     |
| 3-30-94                     | 0940                      | G               | 1-S-SB03-06             | S             | 3                    |   |     |     |      |     |          |     | 7-day   |        |     |
| 3-30-94                     | 1033                      | G               | 1-S-SB07-01             | S             | 3                    |   |     |     |      |     |          |     | Routine |        |     |
| 3-30-94                     | 1042                      | G               | 1-S-SB07-04             | S             | 3                    |   |     |     |      |     |          |     | 7-day   |        |     |
| 3-30-94                     | 1049                      | G               | 1-S-SB07-07             | S             | 3                    |   |     |     |      |     |          |     | 7-day   |        |     |
| 3-30-94                     | 1100<br><del>1224</del>   | G               | 1-SIER-02               | L             | 8                    |   |     |     |      |     |          |     | Hold    |        |     |
| 3-30-94                     | 1229                      | G               | 1-S-SB05-01             | S             | 3                    | ∇   | ∇   | ∇   | ∇    | ∇   |          |     | Routine |        |     |
| Relinquished by (Signature) |                           | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for Sample turn<br>- Airbill # 1630422194 |     |     |      |     |          |     |         |        |     |
| The J. T. ...               |                           | 3-30-94<br>1500 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature) |                           | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature) |                           | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |

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**CHAIN OF CUSTODY**  
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| Proj. #                     |                           | Project name    |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     | Remarks |        |     |
|-----------------------------|---------------------------|-----------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)     |                           |                 |                         |               |                      | TCL   | VOA | TCL | SVOA | TCL | Pest/OCB | TAC |         | Metals | TPH |
| DATE                        | Time                      | Comp. Grab.     | Sample Identification   |               |                      |   |     |     |      |     |          |     |         |        |     |
| 62470-231                   | MCB Camp Lejeune - Site 1 |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| M Taube (A) / K Tia (B)     |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| 3-30<br>94                  | 1243                      | G               | 1-S-SB05-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-30<br>94                  | 1303                      | G               | 1-S-SB05-08             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 3-30<br>94                  | 1340                      | G               | 1-TB-06                 | L             | 2                    | X   |     |     |      |     |          |     | Routine |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                           |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature) |                           | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- see Remarks for sample turnaround<br>- Airbill # 1630422194 |     |     |      |     |          |     |         |        |     |
| Th F. Fathel                |                           | 3-30-94<br>1500 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature) |                           | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature) |                           | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 01007

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| Proj. #                             |      | Project name   |                       | Sample Matrix           | Number of containers | Analyses  |     |   |      |     |          |     | Remarks |        |     |
|-------------------------------------|------|----------------|-----------------------|-------------------------|----------------------|-----------|-----|---|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)             |      |                |                       |                         |                      | TCL       | VOA | TCL   | SVOA | TCL | Pest/PCB | TAL |         | Metals | TPH |
| DATE                                | Time | Comp. Grab.    | Sample Identification |                         |                      |           |     |   |      |     |          |     |         |        |     |
| 62470-231 MCB Camp Lejeune - Site 1 |      |                |                       |                         |                      |           |     |   |      |     |          |     |         |        |     |
| J Zimmerman (A) / K Tua (B)         |      |                |                       |                         |                      |           |     |   |      |     |          |     |         |        |     |
| 4-4-94                              | 1300 | G              | 1-SIER-03             | L                       | 8                    | X         | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5-94                              | 0805 | G              | 1-S-SB16-01           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5-94                              | 0935 | G              | 1-S-SB16-04           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 0944 | G              | 1-S-SB16-07           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 1027 | G              | 1-S-SB15-01           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5-94                              | 1035 | G              | 1-S-SB15-04           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 1041 | G              | 1-S-SB15-06           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 1117 | G              | 1-S-SB06-01           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5-94                              | 1125 | G              | 1-S-SB06-04           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 1137 | G              | 1-S-SB06-08           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 1403 | G              | 1-N-SB32-01           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5-94                              | 1413 | G              | 1-N-SB32-04           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 1424 | G              | 1-N-SB32-07           | S                       | 3                    | X         | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5-94                              | 1500 | G              | 1-TB-07               | L                       | 2                    | X         |     |   |      |     |          |     | Routine |        |     |
| Relinquished by (Signature)         |      | Date/Time      |                       | Received by (Signature) |                      | Date/Time |     | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422172 |      |     |          |     |         |        |     |
| Th. F. Fuhl                         |      | 4-5-94<br>1600 |                       |                         |                      |           |     |   |      |     |          |     |         |        |     |
| Relinquished by (Signature)         |      | Date/Time      |                       | Received by (Signature) |                      | Date/Time |     |   |      |     |          |     |         |        |     |
| Relinquished by (Signature)         |      | Date/Time      |                       | Received by (Signature) |                      | Date/Time |     |   |      |     |          |     |         |        |     |

**CHAIN OF CUSTODY**  
 Original Chain of Custody goes to Laboratory

COC # 01008

| Proj. #                 |                           | Project name |                       | Sample Matrix | Number of containers | Analyses |      |              |            |     |  |  | Remarks |  |
|-------------------------|---------------------------|--------------|-----------------------|---------------|----------------------|----------|------|--------------|------------|-----|--|--|---------|--|
| Samplers (Please print) |                           |              |                       |               |                      | TCL      | SVOA | TCL Pest/PCB | TAL Metals | TPH |  |  |         |  |
| DATE                    | Time                      | Comp. Grab.  | Sample Identification |               |                      |          |      |              |            |     |  |  |         |  |
| 62470-231               | MCB Camp Lejeune - Site 1 |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
| MTaube / BBruckno       |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
| 4-6-94                  | 0700                      | G            | 1-SIER-04             | L             | G                    | X        | X    | X            | X          |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |
|                         |                           |              |                       |               |                      |          |      |              |            |     |  |  |         |  |

TFT  
4-6-94

|  |                             |                         |           |   |
|--|-----------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>Th J. Tulliver</i> | Date/Time<br>4-6-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422010 |
| Relinquished by (Signature)                          | Date/Time                   | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                          | Date/Time                   | Received by (Signature) | Date/Time |   |

CHAIN OF CUSTODY  
Original Chain of Custody goes to Laboratory

COC # 01009

| Proj. #                             |      | Project name   |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     | Remarks |        |     |
|-------------------------------------|------|----------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)             |      |                |                         |               |                      | TCL   | VOA | TCL | SVOA | TCL | Pest/PCB | TAL |         | Metals | TPH |
| DATE                                | Time | Comp. Grab.    | Sample Identification   |               |                      |   |     |     |      |     |          |     |         |        |     |
| 62470-231 MCB Camp Lejeune - Site 1 |      |                |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Zimmerman / kTug                    |      |                |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| 4-5<br>94                           | 1724 | G              | 1-N-SB22-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1724 | G              | 1-N-SB22-01D            | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1758 | G              | 1-N-SB22-06             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5<br>94                           | 1758 | G              | 1-N-SB22-06D            | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5<br>94                           | 1815 | G              | 1-N-SB22-08             | S             | 3                    | X   | X   | X   | X    | X   |          |     | 7-day   |        |     |
| 4-5<br>94                           | 1514 | G              | 1-N-SB23-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1529 | G              | 1-N-SB23-05             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1557 | G              | 1-N-SB23-08             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1258 | G              | 1-S-SB18-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1307 | G              | 1-S-SB18-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1317 | G              | 1-S-SB18-07             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1410 | G              | 1-S-SB09-01             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1419 | G              | 1-S-SB09-04             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| 4-5<br>94                           | 1426 | G              | 1-S-SB09-07             | S             | 3                    | X   | X   | X   | X    | X   |          |     | Routine |        |     |
| Relinquished by (Signature)         |      | Date/Time      | Received by (Signature) |               | Date/Time            | Remarks:<br>- See remarks for sample turnaround<br>- Airbill # 1630422010 |     |     |      |     |          |     |         |        |     |
| The F. Tubeland                     |      | 4-5-94<br>1500 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                                     |      |                |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature)         |      | Date/Time      | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
|                                     |      |                |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature)         |      | Date/Time      | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
|                                     |      |                |                         |               |                      |   |     |     |      |     |          |     |         |        |     |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory *COC # 01009*

| Proj. #                     |      | Project name   |                         | Sample Matrix | Number of containers | Analyses   |      |             |                       |         |          |              | *MS/MSD | Remarks |            |     |
|-----------------------------|------|----------------|-------------------------|---------------|----------------------|--|------|-------------|-----------------------|---------|----------|--------------|---------|---------|------------|-----|
| Samplers (Please print)     |      |                |                         |               |                      | DATE   | Time | Comp. Grab. | Sample Identification | TCL VOA | TCL SVOA | TCL Pest/PCB |         |         | TAL Metals | TPH |
| ↓ Zimmerman (A) / KTuc (B)  |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
| 4-5<br>94                   | 1550 | G              | 1-S-SB08-01             | S             | 6                    | X  | X    | X           | X                     | X       |          |              | X       | Routine |            |     |
| 4-5<br>94                   | 1550 | G              | 1-S-SB08-01D            | S             | 3                    | X  | X    | X           | X                     | X       |          |              |         | Routine |            |     |
| 4-5<br>94                   | 1615 | G              | 1-S-SB08-04             | S             | 3                    | X  | X    | X           | X                     | X       |          |              |         | Routine |            |     |
| 4-5<br>94                   | 1630 | G              | 1-S-SB08-07             | S             | 6                    | X  | X    | X           | X                     | X       |          |              | X       | Routine |            |     |
| 4-5<br>94                   | 1630 | G              | 1-S-SB08-07D            | S             | 3                    | X  | X    | X           | X                     | X       |          |              |         | Routine |            |     |
| 4-5<br>94                   | 0700 | G              | 1-SIER-0405             | L             | 2                    | X  |      |             |                       |         |          |              |         | Hold    |            |     |
| 4-6<br>94                   | 1300 | G              | 1-TB-08                 | L             | 2                    | X  |      |             |                       |         |          |              |         |         |            |     |
|                             |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
|                             |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
|                             |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
|                             |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
|                             |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
|                             |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
|                             |      |                |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
| Relinquished by (Signature) |      | Date/Time      | Received by (Signature) |               | Date/Time            | Remarks:<br>*MS/MSD<br>- See remarks for sample turnaround<br>- Airbill # 1630422016 |      |             |                       |         |          |              |         |         |            |     |
| <i>John F. [Signature]</i>  |      | 4-5-94<br>1500 |                         |               |                      |  |      |             |                       |         |          |              |         |         |            |     |
| Relinquished by (Signature) |      | Date/Time      | Received by (Signature) |               | Date/Time            |  |      |             |                       |         |          |              |         |         |            |     |
| Relinquished by (Signature) |      | Date/Time      | Received by (Signature) |               | Date/Time            |  |      |             |                       |         |          |              |         |         |            |     |



**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 01010

| Proj. #                             |      | Project name   |                       | Sample Matrix           | Number of containers | Analyses |           |     |   |     |          |     |        |     |         | Remarks |  |
|-------------------------------------|------|----------------|-----------------------|-------------------------|----------------------|----------|-----------|-----|---|-----|----------|-----|--------|-----|---------|---------|--|
| Samplers (Please print)             |      |                |                       |                         |                      | TCL      | VOA       | TCL | SVOA  | TCL | Pest/PCB | TAL | Metals | TPH |         |         |  |
| DATE                                | Time | Comp. Grab.    | Sample Identification |                         |                      |          |           |     |   |     |          |     |        |     |         |         |  |
| 62470-231 MCB Camp Lejeune - Site 1 |      |                |                       |                         |                      |          |           |     |   |     |          |     |        |     |         |         |  |
| J Zimmerman / K Tug                 |      |                |                       |                         |                      |          |           |     |   |     |          |     |        |     |         |         |  |
| 4-5-94                              | 1740 | G              | 1-S-SB04-01           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-5-94                              | 1800 | G              | 1-S-SB04-04           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-5-94                              | 1806 | G              | 1-S-SB04-06           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0816 | G              | 1-S-SB02-01           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0827 | G              | 1-S-SB02-04           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0837 | G              | 1-S-SB02-07           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0931 | G              | 1-S-SB14-01           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0931 | G              | 1-S-SB14-01D          | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0938 | G              | 1-S-SB14-03           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0950 | G              | 1-S-SB14-06           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0950 | G              | 1-S-SB14-06D          | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     | Routine |         |  |
| 4-6-94                              | 0826 | G              | 1-S-SB13-01           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     |         |         |  |
| 4-6-94                              | 0832 | G              | 1-S-SB13-04           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     |         |         |  |
| 4-6-94                              | 0838 | G              | 1-S-SB13-07           | S                       | 3                    | X        | X         | X   | X   | X   |          |     |        |     |         |         |  |
| Relinquished by (Signature)         |      | Date/Time      |                       | Received by (Signature) |                      |          | Date/Time |     | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422010 |     |          |     |        |     |         |         |  |
| <i>Th. T. Tug</i>                   |      | 4-6-94<br>1500 |                       |                         |                      |          |           |     |   |     |          |     |        |     |         |         |  |
| Relinquished by (Signature)         |      | Date/Time      |                       | Received by (Signature) |                      |          | Date/Time |     |   |     |          |     |        |     |         |         |  |
| Relinquished by (Signature)         |      | Date/Time      |                       | Received by (Signature) |                      |          | Date/Time |     |   |     |          |     |        |     |         |         |  |

**CHAIN OF CUSTODY**      COC# 01010  
Original Chain of Custody goes to Laboratory

| Proj. #                                  |              | Project name |                       | Sample Matrix  | Number of containers    | Analyses |           |   |      |     |          |     | Remarks |        |     |
|--|--------------|--------------|-----------------------|----------------|-------------------------|----------|-----------|---|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)                  |              |              |                       |                |                         | TCL      | VOA       | TCL   | SVOA | TCL | Rest/PCB | TAL |         | Metals | TPH |
| DATE                                     | Time         | Comp. Grab.  | Sample Identification |                |                         |          |           |   |      |     |          |     |         |        |     |
| 62470-231      MCB Camp Lejeune - Site 1 |              |              |                       |                |                         |          |           |   |      |     |          |     |         |        |     |
| J Zimmerman / KTua                       |              |              |                       |                |                         |          |           |   |      |     |          |     |         |        |     |
| 4-6-94                                   | 0928         | G            | 1-S-SB12-01           | S              | 3                       | X        | X         | X   | X    | X   |          |     | Routine |        |     |
| 4-6-94                                   | 0942         | G            | 1-S-SB12-04           | S              | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-6-94                                   | 0951         | G            | 1-S-SB12-07           | S              | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-6-94                                   | 1450<br>1031 | G            | 1-TB-09               | L              | 2                       | X        |           |   |      |     |          |     |         |        |     |
| 4-6-94                                   | 1035         | G            | 1-BB-SB39-00          | S              | 3                       | X        | X         | X   | X    |     |          |     |         |        |     |
| 4-6-94                                   | 1049         |              | 1-BB-SB39-04          | S              | 3                       | X        | X         | X   | X    |     |          |     |         |        |     |
| 4-6-94                                   | 1055         |              | 1-BB-SB39-06          | S              | 3                       | X        | X         | X   | X    |     |          |     |         |        |     |
| Relinquished by (Signature)              |              |              |                       | Date/Time      | Received by (Signature) |          | Date/Time | Remarks:<br>- See remarks for sample turnaround<br>- Airbill # 1630422010 |      |     |          |     |         |        |     |
| Th. F. Fubler                            |              |              |                       | 4-6-94<br>1500 |                         |          |           |   |      |     |          |     |         |        |     |
| Relinquished by (Signature)              |              |              |                       | Date/Time      | Received by (Signature) |          | Date/Time |   |      |     |          |     |         |        |     |
| Relinquished by (Signature)              |              |              |                       | Date/Time      | Received by (Signature) |          | Date/Time |   |      |     |          |     |         |        |     |

**CHAIN OF CUSTODY**    COC# 01011  
Original Chain of Custody goes to Laboratory

| Proj. #                             |      | Project name |                         | Sample Matrix | Number of containers | Analyses   |     |     |      |     |          | Remarks |         |        |
|-------------------------------------|------|--------------|-------------------------|---------------|----------------------|--|-----|-----|------|-----|----------|---------|---------|--------|
| Samplers (Please print)             |      |              |                         |               |                      | TCL  | VOA | TCL | SVOA | TCL | Pest/PCB |         | TAL     | Metals |
| DATE                                | Time | Comp. Grab.  | Sample Identification   |               |                      |  |     |     |      |     |          |         |         |        |
| 62470-231 MCB Camp Lejeune - Site 1 |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
| K. T. Twa (B)                       |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
| 4-6-94                              | 1215 | G            | 1-BB-SB38-00            | S             | 3                    | X  | X   | X   | X    |     |          |         | Routine |        |
| 4-6-94                              | 1234 | G            | 1-BB-SB38-05            | S             | 3                    | X  | X   | X   | X    |     |          |         | ↓       |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
|                                     |      |              |                         |               |                      |  |     |     |      |     |          |         |         |        |
| Relinquished by (Signature)         |      | Date/Time    | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422684<br>- Reference 28-TB-16 on COC# 28019 for Trip Blank (cross contamination) |     |     |      |     |          |         |         |        |
| The F. Trebilcock                   |      | 4-7-94 1500  |                         |               |                      |  |     |     |      |     |          |         |         |        |
| Relinquished by (Signature)         |      | Date/Time    | Received by (Signature) |               | Date/Time            |  |     |     |      |     |          |         |         |        |
| Relinquished by (Signature)         |      | Date/Time    | Received by (Signature) |               | Date/Time            |  |     |     |      |     |          |         |         |        |

**CHAIN OF CUSTODY**    COC # 01012  
Original Chain of Custody goes to Laboratory

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| Proj. #   |      | Project name |                       | Sample Matrix                | Number of containers    | Analyses |           |   |      |     |          |     | Remarks |        |     |
|---|------|--------------|-----------------------|------------------------------|-------------------------|----------|-----------|---|------|-----|----------|-----|---------|--------|-----|
| 62470-231 MCB Camp Lejeune - OU # 7                                       |      |              |                       |                              |                         | TCL      | VOA       | TCL   | SVOA | TCL | Pest/PCB | TAL |         | Metals | TPH |
| DATE  | Time | Comp. Grab.  | Sample Identification |                              |                         |          |           |   |      |     |          |     |         |        |     |
| Samplers (Please print)<br>K Tua <sup>(B)</sup> / W Pelkey <sup>(C)</sup> |      |              |                       |                              |                         |          |           |   |      |     |          |     |         |        |     |
| 4-9-94  | 1538 | G            | 1-GW13-00             | S                            | 3                       | X        | X         | X   | X    | X   |          |     | Routine |        |     |
| 4-9-94  | 1603 | G            | 1-GW13-04             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-9-94  | 1637 | G            | 1-GW13-08             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-10-94   | 0710 | G            | 1-SIER-06             | L                            | 8                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-10-94   | 0813 | G            | 1-GW11-00             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-10-94   | 0841 | G            | 1-GW11-01             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-10-94   | 1245 | G            | 1-GW09-00             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-10-94   | 1258 | G            | 1-GW09-03             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-10-94   | 1650 | G            | 1-GW12-00             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-10-94   | 1659 | G            | 1-GW12-02             | S                            | 3                       | X        | X         | X   | X    | X   |          |     |         |        |     |
| 4-11-94   | 0715 | G            | 1-SIER-07             | L                            | 4                       | X        |           |   |      | X   |          |     | HOLD    |        |     |
| 4-11-94   | 1430 | G            | 1-TB-10               | L                            | 2                       | X        |           |   |      |     |          |     |         |        |     |
| Relinquished by (Signature)<br><i>The F. F. F.</i>                        |      |              |                       | Date/Time<br>4-11-94<br>1600 | Received by (Signature) |          | Date/Time | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422113 |      |     |          |     |         |        |     |
| Relinquished by (Signature)   |      |              |                       | Date/Time                    | Received by (Signature) |          | Date/Time |   |      |     |          |     |         |        |     |
| Relinquished by (Signature)   |      |              |                       | Date/Time                    | Received by (Signature) |          | Date/Time |   |      |     |          |     |         |        |     |

**CHAIN OF CUSTODY**      COC # 01012  
Original Chain of Custody goes to Laboratory

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| Proj. #   |      | Project name              |                       | Sample Matrix | Number of containers | Analyses |              |            |                      |             |     |   | Extra Volume | Remarks |
|---|------|---------------------------|-----------------------|---------------|----------------------|----------|--------------|------------|----------------------|-------------|-----|---|--------------|---------|
| 62470-231   |      | MCB Camp Lejeune - OU # 7 |                       |               |                      | TCL SVOA | TCL Pest/PCB | TAL Metals | TAL Dissolved Metals | EPA 601/602 | TPH |   |              |         |
| DATE  | Time | Comp. Grab.               | Sample Identification |               |                      |          |              |            |                      |             |     |   |              |         |
| Samplers (Please print)<br>KTua (B) / TTrebilcock (C) |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
| 4-11-94   | 0715 | G                         | 1-SIER-07             | L             | 4                    | X        | X            | X          |                      |             | X   |   | HOLD         |         |
| 4-11-94   | 1120 | G                         | 1-HP-638-01           | L             | 4                    | X        |              |            |                      |             | X   |   | 7-day        |         |
| 4-11-94   | 1120 | G                         | 1-HP-638-01           | L             | 3                    |          | X            | X          |                      |             |     | X | Routine      |         |
| 4-11-94   | 1120 | G                         | 1-HP-638D-01          | L             | 1                    |          |              |            | X                    |             |     |   | Routine      |         |
| 4-11-94   | 1500 | G                         | 1-TB-11               | L             | 2                    |          |              |            |                      |             | X   |   | Routine      |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |
|   |      |                           |                       |               |                      |          |              |            |                      |             |     |   |              |         |

|  |                              |                         |           |  |
|--|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Jh F. Trebilcock</i> | Date/Time<br>4-11-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422113 |
| Relinquished by (Signature)                            | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                            | Date/Time                    | Received by (Signature) | Date/Time |  |

CHAIN OF CUSTODY COC# 01013  
Original Chain of Custody goes to Laboratory

| Proj. #  |      | Project name |   | Sample Matrix | Number of containers | Analyses |         |     |     |      |     |          | Remarks |         |        |     |
|--|------|--------------|---|---------------|----------------------|----------|---------|-----|-----|------|-----|----------|---------|---------|--------|-----|
| Samplers (Please print)  |      |              |   |               |                      | TFT      | TCL     | VOA | TCL | SVOA | TCL | Rest/PCB |         | TAL     | Metals | TPH |
| DATE   | Time | Comp. Grab.  | Sample Identification                       |               |                      |          | 4-12-94 |     |     |      |     |          |         |         |        |     |
| 62470-231 MCB Camp Lejeune - Ou # 7                              |      |              |   |               |                      |          |         |     |     |      |     |          |         |         |        |     |
| Zimmerman <sup>A</sup> / kTua <sup>B</sup> / MTaube <sup>C</sup> |      |              |   |               |                      |          |         |     |     |      |     |          |         |         |        |     |
| 4-12-94  | 0730 | G            | 1-SIER-08                                   | L             | 8                    | X        | X       | X   | X   | X    |     |          |         | Routine |        |     |
| 4-11-94  | 1231 | G            | 1-GW10-00                                   | S             | 3                    | X        | X       | X   | X   | X    |     |          |         | Routine |        |     |
| 4-11-94  | 243  | G            | 1-GW10-03                                   | S             | 3                    | X        | X       | X   | X   | X    |     |          |         | Routine |        |     |
| 4-11-94  | 1259 | G            | 1-GW10-06                                   | S             | 3                    | X        | X       | X   | X   | X    |     |          |         | Routine |        |     |
| 4-12-94  | 0935 | G            | 1-GW07-00 TFT                               | S             | 3                    | X        | X       | X   | X   | X    |     |          |         | Routine |        |     |
| 4-12-94  | 0949 | G            | 1-GW07- <del>02</del> 03 <sup>4-12-94</sup> | S             | 3                    | X        | X       | X   | X   | X    |     |          |         | Routine |        |     |
| 4-12-94  | 1005 | G            | 1-GW07-06                                   | S             | 3                    | X        | X       | X   | X   | X    |     |          |         | Routine |        |     |
| 4-12-94  | 1400 | G            | 1-TB-12                                     | L             | 2                    | X        |         |     |     |      |     |          |         | Routine |        |     |

|   |                              |                         |           |  |
|---|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>John F. Zehle</i> | Date/Time<br>4-12-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422124 |
| Relinquished by (Signature)                         | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                         | Date/Time                    | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY**  
 Original Chain of Custody goes to Laboratory      COC # 01014

| Proj. #                 |      | Project name |                       | Sample Matrix | Number of containers | Analyses |     |     |      |     | *MS/MSD | Remarks |          |     |        |     |
|-------------------------|------|--------------|-----------------------|---------------|----------------------|----------|-----|-----|------|-----|---------|---------|----------|-----|--------|-----|
| Samplers (Please print) |      |              |                       |               |                      | TCL      | VOA | TCL | SUOA | TCL |         |         | Pest/PCB | TAL | Metals | TPH |
| DATE                    | Time | Comp. Grab.  | Sample Identification |               |                      |          |     |     |      |     |         |         |          |     |        |     |
| 4-12-94                 | 1438 | G            | 1-GW08-00             | S             | 3                    | X        | X   | X   | X    | X   |         |         | Routine  |     |        |     |
| 4-12-94                 | 1515 | G            | 1-GW08-03             | S             | 3                    | X        | X   | X   | X    | X   |         |         |          |     |        |     |
| 4-12-94                 | 1532 | G            | 1-GW08-06             | S             | 3                    | X        | X   | X   | X    | X   |         |         |          |     |        |     |
| 4-13-94                 | 1010 | G            | 1-GW16-00             | S             | 6                    | X        | X   | X   | X    | X   |         | X       |          |     |        |     |
| 4-13-94                 | 1010 | G            | 1-GW16-00D            | S             | 3                    | X        | X   | X   | X    | X   |         |         |          |     |        |     |
| 4-13-94                 | 1035 | G            | 1-GW16-04             | S             | 3                    | X        | X   | X   | X    | X   |         |         |          |     |        |     |
| 4-13-94                 | 1047 | G            | 1-GW16-06             | S             | 3                    | X        | X   | X   | X    | X   |         |         |          |     |        |     |
| 4-13-94                 | 1400 | G            | 1-TB-13               | L             | 2                    | X        |     |     |      |     |         |         |          |     |        |     |
| 4-13-94                 | 1430 | G            | 231-FB-02             | L             |                      |          |     |     |      |     |         |         |          |     |        |     |
|                         |      |              |                       |               |                      |          |     |     |      |     |         |         |          |     |        |     |
|                         |      |              |                       |               |                      |          |     |     |      |     |         |         |          |     |        |     |
|                         |      |              |                       |               |                      |          |     |     |      |     |         |         |          |     |        |     |
|                         |      |              |                       |               |                      |          |     |     |      |     |         |         |          |     |        |     |

|   |                              |                         |           |   |
|---|------------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>J. F. [Signature]</i> | Date/Time<br>4-12-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turnaround<br>- Air bill # 1630422146<br>*MS/MSD |
| Relinquished by (Signature)                             | Date/Time                    | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                             | Date/Time                    | Received by (Signature) | Date/Time |   |

CHAIN OF CUSTODY  
Original Chain of Custody goes to Laboratory

CC# 01015

| Proj. #                 |                           | Project name |                       | Sample Matrix | Number of containers | Analyses |          |              |            |          |      |      |                 |            |                  |         |
|-------------------------|---------------------------|--------------|-----------------------|---------------|----------------------|----------|----------|--------------|------------|----------|------|------|-----------------|------------|------------------|---------|
| Samplers (Please print) |                           |              |                       |               |                      | TCL VOA  | TCL SVOA | TCL Pest/PCB | TAL Metals | Full TPH | TCLP | RCRA | Characteristics | Grain Size | Atterburg Limits | Remarks |
| DATE                    | Time                      | Comp. Grab.  | Sample Identification |               |                      |          |          |              |            |          |      |      |                 |            |                  |         |
| 62470-231               | MCB Camp Lejeune - OU # 7 |              |                       |               |                      |          |          |              |            |          |      |      |                 |            |                  |         |
| KTua (B)                |                           |              |                       |               |                      |          |          |              |            |          |      |      |                 |            |                  |         |
| 4-18 94                 | 1450                      | C            | 1-S-SB40              | S             | 3                    |          |          |              |            |          | X    | X    | X               | X          | Routine          |         |
| 4-18 94                 | 1555                      | G            | 1-N-SB33-01           | S             | 3                    | X        | X        | X            | X          |          |      |      |                 |            |                  |         |
| 4-18 94                 | 1635                      | G            | 1-N-SB33-04           | S             | 3                    | X        | X        | X            | X          |          |      |      |                 |            |                  |         |
| 4-18 94                 | 1646                      | G            | 1-N-SB33-07           | S             | 3                    | X        | X        | X            | X          |          |      |      |                 |            |                  |         |
| 4-19 94                 | 0830                      | G            | 1-GW17-00             | S             | 6                    | X        | X        | X            | X          | X        |      |      |                 |            | *                |         |
| 4-19 94                 | 0830                      | G            | 1-GW17-00D            | S             | 3                    | X        | X        | X            | X          | X        |      |      |                 |            |                  |         |
| 4-19 94                 | 0906                      | G            | 1-GW17-05             | S             | 3                    | X        | X        | X            | X          | X        |      |      |                 |            |                  |         |
| 4-19 94                 | 0906                      | G            | 1-GW17-05D            | S             | 3                    | X        | X        | X            | X          | X        |      |      |                 |            | ▽                |         |
| 4-19 94                 | 1530                      | G            | 1-SIER-09             | L             | 5                    | X        | X        | X            | X          |          |      |      |                 |            | HOLD             |         |
| 4-19 94                 | 1545                      | G            | 1-TB-14               | L             | 2                    | X        |          |              |            |          |      |      |                 |            | Routine          |         |

\* MS/MSD

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|  |                              |                         |           |   |
|--|------------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>Th. F. Zelle</i> | Date/Time<br>4-19-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 16304 22150<br>- Full TCLP = VOA, SVOA, Pest/PCB, Herb, Metals<br>- RCRA Char. = Corrosivity, Reactivity, Ignite<br><br>* MS/MSD |
| Relinquished by (Signature)                        | Date/Time                    | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                        | Date/Time                    | Received by (Signature) | Date/Time |   |



**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 01016/28029 **0194**

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| Proj. #  |    | Project name    |   | Sample Matrix           | Number of containers | Analyses  |      |   |                       |             |          |            | Remarks |                      |         |
|--|----|-----------------|---|-------------------------|----------------------|-----------|------|---|-----------------------|-------------|----------|------------|---------|----------------------|---------|
| 62470-231 MICB Camp Lejeune - 04 #7            |    |                 |   |                         |                      | DATE      | Time | Comp. Grab.   | Sample Identification | EPA 601/602 | TCL SVUA | TAL Metals |         | TAL Dissolved Metals |         |
| Samplers (Please print)<br>K. Tua <sup>A</sup> |    |                 |   |                         |                      |           |      |   |                       |             |          |            |         |                      |         |
| 4-22   | 94 | 1330            | G | 1-GW01-01               | L                    | 6         | X    | X   | X                     |             |          |            |         |                      | Routine |
| 4-22   | 94 | 1330            | G | 1-GW01D-01              | L                    | 1         |      |   |                       |             | X        |            |         |                      |         |
| 4-22   | 94 | 1430            | G | 1-GW02-01               | L                    | 6         | X    | X   | X                     |             |          |            |         |                      |         |
| 4-22   | 94 | 1430            | G | 1-GW02D-01              | L                    | 1         |      |   |                       |             | X        |            |         |                      |         |
| 4-22   | 94 | 1900            | G | 1-GWER-01               | L                    | 4         | X    | X   | X                     |             |          |            |         |                      |         |
| 4-22   | 94 | 1900            | G | 1-GWERD-01              | L                    | 1         |      |   |                       |             | X        |            |         |                      |         |
| 4-22   | 94 | 1800            | G | 1-GW03-01               | L                    | 3         | X    |   |                       |             |          |            |         |                      |         |
| 4-22   | 94 | 1930            | G | 1-TB-15                 | L                    | 2         | X    |   |                       |             |          |            |         |                      |         |
| 4-23   | 94 | 0900            | G | 1-GW06-01               | L                    | 3         | X    |   |                       |             |          |            |         |                      |         |
| 4-23   | 94 | 1000            | G | 1-GW15-01               | L                    | 3         | X    |   |                       |             |          |            |         |                      |         |
| 4-23   | 94 | 1030            | G | 1-GW15-01D              | L                    | 2         | X    |   |                       |             |          |            |         |                      |         |
| 4-23   | 94 | 1145            | G | 1-GW13-01               | L                    | 3         | X    |   |                       |             |          |            |         |                      |         |
| 4-23   | 94 | 0800            | G | 28-GW05-01              | L                    | 3         | X    |   |                       |             |          |            |         |                      | Routine |
| Relinquished by (Signature)                    |    | Date/Time       |   | Received by (Signature) |                      | Date/Time |      | Remarks:<br>- See Remarks for sample turnaround<br><br>- Airbill # 1630421940 |                       |             |          |            |         |                      |         |
| <i>[Signature]</i>                             |    | 4-23-94<br>1300 |   |                         |                      |           |      |   |                       |             |          |            |         |                      |         |
| Relinquished by (Signature)                    |    | Date/Time       |   | Received by (Signature) |                      | Date/Time |      |   |                       |             |          |            |         |                      |         |
| Relinquished by (Signature)                    |    | Date/Time       |   | Received by (Signature) |                      | Date/Time |      |   |                       |             |          |            |         |                      |         |

CHAIN OF CUSTODY COC # 01017/28030  
Original Chain of Custody goes to Laboratory

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| Proj. #                         |      | Project name    |                               | Sample Matrix | Number of containers | Analyses  |          |            |                      | Remarks |         |
|---------------------------------|------|-----------------|-------------------------------|---------------|----------------------|---|----------|------------|----------------------|---------|---------|
| Samplers (Please print)         |      |                 |                               |               |                      | TCL SUGA  | TCL Pest | TAL Metals | TAL Dissolved Metals |         |         |
| DATE                            | Time | Comp. Grab.     | Sample Identification         |               |                      |   |          |            |                      |         |         |
| 62470-231 MCB Camp Lejeune OU#7 |      |                 |                               |               |                      |   |          |            |                      |         |         |
| kTua (A)                        |      |                 |                               |               |                      |   |          |            |                      |         |         |
| 4-23<br>94                      | 0900 | G               | 1-GW06-01                     | L             | 3                    | X   |          | X          |                      |         | Routine |
| 4-23<br>94                      | 0900 | G               | 1-GW06D-01                    | L             | 1                    |   |          |            | X                    |         | Routine |
| 4-23<br>94                      | 1145 | G               | 1-GW13-01                     | L             | 3                    | X   |          | X          |                      |         | ↓       |
| 4-23<br>94                      | 1145 | G               | 1-GW13D-01                    | L             | 1                    |   |          |            | X                    |         |         |
| 4-23<br>94                      | 1600 | G               | <del>1-GW15-01</del> TFF      |               |                      |   |          |            |                      |         |         |
|                                 |      |                 | <del>1-GW15D-01</del> 4-23-94 |               |                      |   |          |            |                      |         |         |
| 4-23<br>94                      | 0800 | G               | 28-GW05-01                    | L             | 4                    | X   | X        | X          |                      |         | Routine |
| 4-23<br>94                      | 0800 | G               | 28-GW05D-01                   | L             | 1                    |   |          |            | X                    |         | Routine |
| Relinquished by (Signature)     |      | Date/Time       | Received by (Signature)       |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630421940 |          |            |                      |         |         |
| [Signature]                     |      | 4-23-94<br>1300 |                               |               |                      |   |          |            |                      |         |         |
| Relinquished by (Signature)     |      | Date/Time       | Received by (Signature)       |               | Date/Time            |   |          |            |                      |         |         |
| Relinquished by (Signature)     |      | Date/Time       | Received by (Signature)       |               | Date/Time            |   |          |            |                      |         |         |

CHAIN OF CUSTODY C0C#01018  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name             |                       | Sample Matrix           | Number of containers | Analyses  |      |   |                      | Remarks |         |
|-----------------------------|------|--------------------------|-----------------------|-------------------------|----------------------|-----------|------|---|----------------------|---------|---------|
| 62470-231                   |      | MCB Camp Lejeune - OU #7 |                       |                         |                      | TCL       | SUGA | TAL Metals  | TAL Dissolved Metals |         |         |
| DATE                        | Time | Comp. Grab.              | Sample Identification |                         |                      |           |      |   |                      |         |         |
| 4-23<br>94                  | 1000 | G                        | 1-GW15-01             | L                       | 3                    | X         | X    |   |                      |         | Routine |
| 4-23<br>94                  | 1000 | G                        | 1-GW15D-01            | L                       | 1                    |           |      | X   |                      |         |         |
| 4-23<br>94                  | 1000 | G                        | 1-GW15-01D            | L                       | 2                    | X         | X    |   |                      |         |         |
| 4-23<br>94                  | 1000 | G                        | 1-GW15D-01D           | L                       | 1                    |           |      | X   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
| Relinquished by (Signature) |      | Date/Time                |                       | Received by (Signature) |                      | Date/Time |      | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630421940 |                      |         |         |
| Jh J. J. J.                 |      | 4-23-94<br>1300          |                       |                         |                      |           |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
| Relinquished by (Signature) |      | Date/Time                |                       | Received by (Signature) |                      | Date/Time |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |
| Relinquished by (Signature) |      | Date/Time                |                       | Received by (Signature) |                      | Date/Time |      |   |                      |         |         |
|                             |      |                          |                       |                         |                      |           |      |   |                      |         |         |

**CHAIN OF CUSTODY**    COC # 01019  
Original Chain of Custody goes to Laboratory

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| Proj. #   |      | Project name                 |                         | Sample Matrix | Number of containers | Analyses  |          |            |                      |          |  |         | Remarks |
|---|------|------------------------------|-------------------------|---------------|----------------------|---|----------|------------|----------------------|----------|--|---------|---------|
| 62470-231    MCB Camp Lejeune - OU #7             |      |                              |                         |               |                      | EPA 601/602   | TCL SVOA | TAL Metals | TAL Dissolved Metals | * MS/MSD |  |         |         |
| DATE  | Time | Comp. Grab.                  | Sample Identification   |               |                      |   |          |            |                      |          |  |         |         |
| Samplers (Please print)<br>K Tua / M Taube /      |      |                              |                         |               |                      |   |          |            |                      |          |  |         |         |
| 4-22-94   | 1800 | G                            | 1-GW03-01               | L             | 3                    |   | X        | X          |                      |          |  | Routine |         |
| 4-22-94   | 1800 | G                            | 1-GW03D-01              | L             | 1                    |   |          |            | X                    |          |  |         |         |
| 4-24-94   | 0800 | G                            | 1-GWER-02               | L             | 4                    | X   | X        | X          |                      |          |  |         |         |
| 4-24-94   | 0800 | G                            | 1-GWERD-02              | L             | 1                    |   |          |            | X                    |          |  |         |         |
|   | 0910 | G                            | 1-GW12-01               | L             | 3                    | X   |          |            |                      |          |  |         |         |
|   | 1000 | G                            | 1-GW11-01               | L             | 3                    | X   |          |            |                      |          |  |         |         |
|   | 1130 | G                            | 1-GW10-01               | L             | 3                    | X   |          |            |                      |          |  |         |         |
|   | 1300 | G                            | 1-GW04-01               | L             | 7                    | X   |          |            |                      | X        |  |         |         |
|   | 1300 | G                            | 1-GW04-01D              | L             | 2                    | X   |          |            |                      |          |  |         |         |
|   | 1400 | G                            | 1-GW07-01               | L             | 3                    | X   |          |            |                      |          |  |         |         |
|   | 1510 | G                            | 1-GW08-01               | L             | 3                    | X   |          |            |                      |          |  |         |         |
|   | 1620 | G                            | 1-GW14-01               | L             | 3                    | X   |          |            |                      |          |  |         |         |
|   | 1640 | G                            | 1-GW09-01               | L             | 3                    | X   |          |            |                      |          |  |         |         |
| ▽   | 1700 | G                            | 1-GW17-01               | L             | 3                    | X   |          |            |                      |          |  | ▽       |         |
| Relinquished by (Signature)<br><i>[Signature]</i> |      | Date/Time<br>4-25-94<br>1600 | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422253<br>* MS/MSD |          |            |                      |          |  |         |         |
| Relinquished by (Signature)                       |      | Date/Time                    | Received by (Signature) |               | Date/Time            |   |          |            |                      |          |  |         |         |
| Relinquished by (Signature)                       |      | Date/Time                    | Received by (Signature) |               | Date/Time            |   |          |            |                      |          |  |         |         |

**CHAIN OF CUSTODY**    COC # 01019/28030    0198  
 Original Chain of Custody goes to Laboratory

| Proj. #<br>(02470-231)                    |      | Project name<br>MCB Camp Lejeune - OU #7 |                       | Sample Matrix | Number of containers | Analyses    |  |  |  |  |  |  |  | Remarks |         |
|---|------|--|-----------------------|---------------|----------------------|-------------|--|--|--|--|--|--|--|---------|---------|
| Samplers (Please print)<br>K Tug / M Taub |      |  |                       |               |                      | EPA 601/602 |  |  |  |  |  |  |  |         |         |
| DATE                                      | Time | Comp. Grab.                              | Sample Identification |               |                      |             |  |  |  |  |  |  |  |         |         |
| 4-24<br>94                                | 1740 | G  | 1-GW16-01             | L             | 3                    | X           |  |  |  |  |  |  |  |         | Routine |
| 4-25<br>94                                | 1400 | G  | 1-TB-16               | L             | 2                    | X           |  |  |  |  |  |  |  |         | Routine |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |
| 4-25<br>94                                | 1100 | G  | 28-GW09DW-01          | L             | 3                    | X           |  |  |  |  |  |  |  |         | Routine |
| 4-25<br>94                                | 1240 | G  | 28-GW01-01            | L             | 3                    | X           |  |  |  |  |  |  |  |         | Routine |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |
|   |      |  |                       |               |                      |             |  |  |  |  |  |  |  |         |         |

|   |                              |                         |           |  |
|---|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Jh J. [Signature]</i> | Date/Time<br>4-25-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422253 |
| Relinquished by (Signature)                             | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                             | Date/Time                    | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY** COC# 01020  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name             |  | Sample Matrix           | Number of containers | Analyses  |      |   |          |     | Remarks |         |               |        |
|-----------------------------|------|--------------------------|--|-------------------------|----------------------|-----------|------|---|----------|-----|---------|---------|---------------|--------|
| 62470-731                   |      | MCP Camp Lejeune - OU #7 |  |                         |                      | TCL       | SVOA | TCL   | Pest/PCB | TAL |         | Metals  | TAL Dissolved | Metals |
| DATE                        | Time | Comp. Grab.              | Sample Identification  |                         |                      |           |      |   |          |     |         |         |               |        |
| Samplers (Please print)     |      |                          |  | K Tina                  |                      |           |      |   |          |     |         |         |               |        |
| 4-24<br>94                  | 0910 | G                        | 1-GW12-01  | L                       | 3                    | X         |      | X   |          |     |         | Routine |               |        |
|                             | 0910 | G                        | 1-GW12B-01   | L                       | 1                    |           |      |   | X        |     |         |         |               |        |
|                             | 1000 | G                        | 1-GW11-01  | L                       | 4                    | X         | X    | X   |          |     |         |         |               |        |
|                             | 1000 | G                        | 1-GW11D-01   | L                       | 1                    |           |      |   | X        |     |         |         |               |        |
|                             | 1130 | G                        | 1-GW10-01  | L                       | 3                    | X         |      | X   |          |     |         |         |               |        |
|                             | 1130 | G                        | 1-GW10- <del>01</del> <sup>tot 94</sup><br><del>D-01</del> <sup>4-25</sup> | L                       | 1                    |           |      |   | X        |     |         |         |               |        |
|                             | 1400 | G                        | 1-GW07-01  | L                       | 3                    | X         |      | X   |          |     |         |         |               |        |
|                             | 1400 | G                        | 1-GW07D-01   | L                       | 1                    |           |      |   | X        |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
|                             |      |                          |  |                         |                      |           |      |   |          |     |         |         |               |        |
| Relinquished by (Signature) |      | Date/Time                |  | Received by (Signature) |                      | Date/Time |      | Remarks:<br>- Airbill # 1630422253<br>- See Remarks for sample turnaround |          |     |         |         |               |        |
| <i>Th. F. Felical</i>       |      | 4-25-94<br>1600          |  |                         |                      |           |      |   |          |     |         |         |               |        |
| Relinquished by (Signature) |      | Date/Time                |  | Received by (Signature) |                      | Date/Time |      |   |          |     |         |         |               |        |
| Relinquished by (Signature) |      | Date/Time                |  | Received by (Signature) |                      | Date/Time |      |   |          |     |         |         |               |        |

1-GW10D-01



**CHAIN OF CUSTODY**    COC# 010ZZ  
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| Proj. #                            |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |      |     |          |     |        |               | Remarks |        |          |              |                   |
|------------------------------------|------|-----------------|-------------------------|---------------|----------------------|---|------|-----|----------|-----|--------|---------------|---------|--------|----------|--------------|-------------------|
| 62470-231 MCB Camp Lejeune - OU# 7 |      |                 |                         |               |                      | TCL   | SVOA | TCL | Pest/PCB | TAL | Metals | TAL Dissolved |         | Metals | TKN, COD | BOD, TSS, TP | Cl, F, Alkalinity |
| DATE                               | Time | Comp. Grab.     | Sample Identification   |               |                      |   |      |     |          |     |        |               |         |        |          |              |                   |
| 4-24<br>94                         | 1510 | G               | 1-GW08-01               | L             | 3                    | X   |      | X   |          |     |        |               |         |        | Routine  |              |                   |
|                                    | 1510 |                 | 1-GW08D-01              | L             | 1                    |   |      |     |          | X   |        |               |         |        |          |              |                   |
|                                    | 1620 |                 | 1-GW14-01               | L             | 3                    | X   |      | X   |          |     |        |               |         |        |          |              |                   |
|                                    | 1620 |                 | 1-GW14D-01              | L             | 1                    |   |      |     |          | X   |        |               |         |        |          |              |                   |
|                                    | 1640 |                 | 1-GW09-01               | L             | 3                    | X   |      | X   |          |     |        |               |         |        |          |              |                   |
|                                    | 1640 |                 | 1-GW09D-01              | L             | 1                    |   |      |     |          | X   |        |               |         |        |          |              |                   |
|                                    | 1700 |                 | 1-GW17-01               | L             | 6                    | X   | X    | X   |          | X   | X      |               |         |        |          |              |                   |
|                                    | 1700 |                 | 1-GW17D-01              | L             | 1                    |   |      |     |          | X   |        |               |         |        |          |              |                   |
| Relinquished by (Signature)        |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422253 |      |     |          |     |        |               |         |        |          |              |                   |
| <i>Th. F. Talbot</i>               |      | 4-25-94<br>1600 |                         |               |                      |   |      |     |          |     |        |               |         |        |          |              |                   |
| Relinquished by (Signature)        |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |      |     |          |     |        |               |         |        |          |              |                   |
| Relinquished by (Signature)        |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |      |     |          |     |        |               |         |        |          |              |                   |



**CHAIN OF CUSTODY** COC# 01023/28031  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |              |            |               |          |          |                                  |         | Remarks |
|-----------------------------|------|-----------------|-------------------------|---------------|----------------------|---|--------------|------------|---------------|----------|----------|----------------------------------|---------|---------|
| Samplers (Please print)     |      |                 |                         |               |                      | TCL SVOA  | TCL Pest/PCB | TAL Metals | TAL Dissolved | TCL Pest | TKN, COD | CL, F, BOD, TDS, TSS, Alkalinity |         |         |
| DATE                        | Time | Comp. Grab.     | Sample Identification   |               |                      |   |              |            |               |          |          |                                  |         |         |
| KTuc                        |      |                 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
| 4-24<br>94                  | 1740 | G               | 1-GW16-01               | L             | 4                    | X   | X            | X          |               |          |          |                                  | Routine |         |
| 4-24<br>94                  | 1740 | G               | 1-GW16D-01              | L             | 1                    |   |              |            | X             |          |          |                                  | Routine |         |
|                             |      |                 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
|                             |      |                 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
| 4-25<br>94                  | 1100 | G               | 28-GW09DW-01            | L             | 4                    | X   |              | X          |               | X        |          |                                  | Routine |         |
| 4-25<br>94                  | 1100 | G               | 28-GW09DWD-01           | L             | 1                    |   |              |            | X             |          |          |                                  | Routine |         |
| 4-25<br>94                  | 1240 | G               | 28-GW01-01              | L             | 6                    | X   |              | X          |               | X        | X        | X                                | Routine |         |
| 4-25<br>94                  | 1240 | G               | 28-GW01D-01             | L             | 1                    |   |              |            | X             |          |          |                                  | Routine |         |
|                             |      |                 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
|                             |      |                 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
|                             |      |                 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
|                             |      |                 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 16304 22253 |              |            |               |          |          |                                  |         |         |
| Th 7.7ahhl                  |      | 4-25-94<br>1600 |                         |               |                      |   |              |            |               |          |          |                                  |         |         |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |              |            |               |          |          |                                  |         |         |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |              |            |               |          |          |                                  |         |         |

**CHAIN OF CUSTODY** COC # 01024/30011  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name   |             | Sample Matrix           | Number of containers | Analyses  |      |  |                       |         |          |              |            | Remarks |         |           |                      |
|-----------------------------|------|----------------|-------------|-------------------------|----------------------|-----------|------|--|-----------------------|---------|----------|--------------|------------|---------|---------|-----------|----------------------|
| Samplers (Please print)     |      |                |             |                         |                      | DATE      | Time | Comp. Grab.  | Sample Identification | TCL VOA | TCL SVOA | TCL Pest/PCB | TAL Metals |         | TPH     | Full TCLP | RCRA Characteristics |
| M Taube / T Trebilcock      |      |                |             |                         |                      |           |      |  |                       |         |          |              |            |         |         |           |                      |
| 5-2<br>94                   | 1500 | G              | 1-GW16DW-00 | S                       | 3                    | X         | X    | X  | X                     | X       |          |              |            |         | Routine |           |                      |
| 5-2<br>94                   | 1519 | G              | 1-GW16DW-04 | S                       | 3                    | X         | X    | X  | X                     | X       |          |              |            |         | ↓       |           |                      |
| 5-2<br>94                   | 1549 | G              | 1-GW16DW-07 | S                       | 3                    | X         | X    | X  | X                     | X       |          |              |            |         |         |           |                      |
| 5-3<br>94                   | 1500 |                | 1-TB-17     | L                       | 2                    | X         |      |  |                       |         |          |              |            |         |         | ↓         |                      |
| 5-3<br>94                   | 0930 | C              | 30-3DRMC    | S                       | 3                    |           |      |  |                       |         |          | X            | X          |         | Routine |           |                      |
| Relinquished by (Signature) |      | Date/Time      |             | Received by (Signature) |                      | Date/Time |      | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630421925 |                       |         |          |              |            |         |         |           |                      |
| Th J. Zahrad                |      | 5-3-94<br>1600 |             |                         |                      |           |      |  |                       |         |          |              |            |         |         |           |                      |
| Relinquished by (Signature) |      | Date/Time      |             | Received by (Signature) |                      | Date/Time |      |  |                       |         |          |              |            |         |         |           |                      |
| Relinquished by (Signature) |      | Date/Time      |             | Received by (Signature) |                      | Date/Time |      |  |                       |         |          |              |            |         |         |           |                      |

CHAIN OF CUSTODY Coc# 01025/28032  
Original Chain of Custody goes to Laboratory

| Proj. #                 |      | Project name |                       | Sample Matrix | Number of containers | Analyses |          |              |            |     |           |      |                 | Remarks |
|-------------------------|------|--------------|-----------------------|---------------|----------------------|----------|----------|--------------|------------|-----|-----------|------|-----------------|---------|
| Samplers (Please print) |      |              |                       |               |                      | TCL VOA  | TCL SVOA | TCL Pest/PCB | TAL Metals | TPH | Full TCLP | RCRA | Characteristics |         |
| DATE                    | Time | Comp. Grab.  | Sample Identification |               |                      |          |          |              |            |     |           |      |                 |         |
| 62470-231               |      |              | MCP Camp Lejeune      |               |                      |          |          |              |            |     |           |      |                 |         |
| MTaube / T Trebilcock   |      |              |                       |               |                      |          |          |              |            |     |           |      |                 |         |
| 5-5-94                  | 1420 | G            | 1-GW17DW-00           | S             | 3                    | X        | X        | X            | X          | X   |           |      | Routine         |         |
| 5-5-94                  | 1544 | G            | 1-GW17DW-05           | S             | 3                    | X        | X        | X            | X          | X   |           |      |                 |         |
| 5-6-94                  | 1500 | G            | 1-TB-18               | L             | 2                    | X        |          |              |            |     |           |      | ↓               |         |
| 5-6-94                  | 1340 | C            | 28-RB01               | S             | 3                    |          |          |              |            |     | X         | X    | 7-day           |         |
| 5-6-94                  | 1400 | C            | 28-RB02               | S             | 3                    |          |          |              |            |     | X         | X    | 7-day           |         |

|   |                             |                         |           |   |
|---|-----------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>J. Trebilcock</i> | Date/Time<br>5-6-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422323<br>- Full TCLP = Volatiles, Semis, Pest/PCB, Herb & Metals<br>- RCRA Char. = Corrosivity, Ignitability, Reactivity |
| Relinquished by (Signature)                         | Date/Time                   | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                         | Date/Time                   | Received by (Signature) | Date/Time |   |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 01026/28034 **0208**

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| Proj. #                 |      | Project name |              | Sample Matrix | Number of containers | Analyses |      |             |                       |             |          |          |         |            |                      | Remarks |                     |           |
|-------------------------|------|--------------|--------------|---------------|----------------------|----------|------|-------------|-----------------------|-------------|----------|----------|---------|------------|----------------------|---------|---------------------|-----------|
| Samplers (Please print) |      |              |              |               |                      | DATE     | Time | Comp. Grab. | Sample Identification | EPA 601/602 | TCL SVOA | TCL Pest | TCL PCB | TAL Metals | TAL Dissolved Metals |         | RCRA Characteristic | Full TCLP |
| M Taube / T Trebilcock  |      |              |              |               |                      |          |      |             |                       |             |          |          |         |            |                      |         |                     |           |
| 5-8-94                  | 0930 | C            | 1-RB01       | S             | 3                    |          |      |             |                       |             |          |          |         | X          | X                    | 7-day   |                     |           |
| 5-8-94                  | 1830 | C            | 1-RB02       | S             | 3                    |          |      |             |                       |             |          |          |         | X          | X                    | 7-day   |                     |           |
| 5-8-94                  | 2045 | G            | 1-TB-19      | L             | 2                    | X        |      |             |                       |             |          |          |         |            |                      | Routine |                     |           |
| 5-9-94                  | 1000 | G            | 1-GW16DW-01  | L             | 6                    | X        | X    |             |                       |             |          | X        |         |            |                      | Routine |                     |           |
| 5-9-94                  | 1000 | G            | 1-GW16DWD-01 | L             | 1                    |          |      |             |                       |             |          |          | X       |            |                      | Routine |                     |           |
| 5-8-94                  | 1645 | G            | 28-GW07DW-01 | L             | 3                    | X        |      |             |                       |             |          |          |         |            |                      | Routine |                     |           |
| 5-8-94                  | 1800 | G            | 28-TKNR      | L             | 3                    | X        |      |             |                       |             |          |          |         |            |                      | Routine |                     |           |
| 5-8-94                  | 1950 | G            | 28-GWER-03   | L             | 5                    | X        | X    | X           | X                     | X           | X        | X        | X       | TFT 5-8-94 |                      | Routine |                     |           |
| 5-8-94                  | 1950 | G            | 28-GWERD-03  | L             | 1                    |          |      |             |                       |             |          |          | X       |            |                      | Routine |                     |           |

|   |                             |                         |           |  |
|---|-----------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>[Signature]</i> | Date/Time<br>5-9-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422076<br>- RCRA = Ignitability, Corrosivity, Reactivity<br>- Full TCLP = Herbicide, Pest, PCB, Metals<br>SVOAs & VOAs |
| Relinquished by (Signature)                       | Date/Time                   | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                       | Date/Time                   | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY** C00#01027  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name    |           | Sample Matrix           | Number of containers | Analyses  |      |   |                       |             |              |          | Remarks |              |            |                      |
|-----------------------------|------|-----------------|-----------|-------------------------|----------------------|-----------|------|---|-----------------------|-------------|--------------|----------|---------|--------------|------------|----------------------|
| Samplers (Please print)     |      |                 |           |                         |                      | DATE      | Time | Comp. Grab.   | Sample Identification | EPA 601/602 | TCL Volatile | TCL SVGA |         | TCL Pest/PCB | TAL Metals | TAL Dissolved Metals |
| M Taube / Trebilcock        |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
| 5-11-94                     | 0730 | C               | 203 - TNK | L                       | 6                    | X         |      | X   | X                     | X           | X            |          |         | 7-day        |            |                      |
| 5-11-94                     | 1200 | G               | 1-TB-20   | L                       | 2                    | X         |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
| Relinquished by (Signature) |      | Date/Time       |           | Received by (Signature) |                      | Date/Time |      | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422360 |                       |             |              |          |         |              |            |                      |
| 7. F. Trebilcock            |      | 5-11-94<br>1606 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
| Relinquished by (Signature) |      | Date/Time       |           | Received by (Signature) |                      | Date/Time |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |
| Relinquished by (Signature) |      | Date/Time       |           | Received by (Signature) |                      | Date/Time |      |   |                       |             |              |          |         |              |            |                      |
|                             |      |                 |           |                         |                      |           |      |   |                       |             |              |          |         |              |            |                      |

**SITE 28**

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**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 28006

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| Proj. #                          |      | Project name |               | Sample Matrix | Number of containers | Analyses |      |             |                       |         |          |              |            | * MS/MSD | Remarks |
|----------------------------------|------|--------------|---------------|---------------|----------------------|----------|------|-------------|-----------------------|---------|----------|--------------|------------|----------|---------|
| Samplers (Please print)          |      |              |               |               |                      | DATE     | Time | Comp. Grab. | Sample Identification | TCL VOA | TCL SVOA | TCL Pest/PCB | TAL Metals |          |         |
| ↓ Zimmerman / KTug / A Bernhardt |      |              |               |               |                      |          |      |             |                       |         |          |              |            |          |         |
| 3-26-94                          | 1130 | G            | Z8-W-SB04-00  | S             | 6                    | X        | X    | X           | X                     |         |          |              | X          | Routine  |         |
| 3-26-94                          | 1130 | G            | Z8-W-SB04-00D | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1149 | G            | Z8-W-SB04-03  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1215 | G            | Z8-W-SB04-06  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1135 | G            | Z8-E-SB32-00  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1148 | G            | Z8-E-SB32-03  | S             | 1                    |          |      |             | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1210 | G            | Z8-E-SB32-06  | S             | 1                    |          |      |             | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1435 | G            | Z8-E-SB26-00  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1449 | G            | Z8-E-SB26-03  | S             | 1                    |          |      |             | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1436 | G            | Z8-W-SB07-00  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1441 | G            | Z8-W-SB07-01  | S             | 2                    | X        | X    | X           |                       |         |          |              |            |          |         |
| 3-26-94                          | 1511 | G            | Z8-W-SB07-06  | S             | 2                    | X        | X    | X           |                       |         |          |              |            |          |         |
| 3-26-94                          | 1548 | G            | Z8-W-SB10-00  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |
| 3-26-94                          | 1611 | G            | Z8-W-SB10-03  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |          |         |

|  |                              |                         |           |   |
|--|------------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>Thom F. Trullish</i> | Date/Time<br>3-26-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>* MS/MSD<br>- See Remarks for Sample turnaround |
| Relinquished by (Signature)                            | Date/Time                    | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                            | Date/Time                    | Received by (Signature) | Date/Time |   |

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| Proj. #                           |      | Project name               |              | Sample Matrix | Number of containers | Analyses    |                       |                |            |   |   | Remarks |   |  |  |  |  |  |  |         |  |
|-----------------------------------|------|----------------------------|--------------|---------------|----------------------|-------------|-----------------------|----------------|------------|---|---|---------|---|--|--|--|--|--|--|---------|--|
| 62470-231                         |      | MCB Camp Lejeune - Site 28 |              |               |                      | TCL VOA     | TCL SWA               | TCL Pesticides | TAL Metals |   |   |         |   |  |  |  |  |  |  |         |  |
| Samplers (Please print)           |      |                            |              | DATE          | Time                 | Comp. Grab. | Sample Identification | S              | 3          | X | X | X       | X |  |  |  |  |  |  |         |  |
| J Zimmerman / K Tua / A Bernhardt |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
| 3-26-94                           | 1627 | G                          | 28-W-SB10-06 | S             | 3                    | X           | X                     | X              | X          |   |   |         |   |  |  |  |  |  |  | Routine |  |
| 3-26-94                           | 2000 | G                          | 28-TB-06     | L             | 2                    | X           |                       |                |            |   |   |         |   |  |  |  |  |  |  | ↓       |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |
|                                   |      |                            |              |               |                      |             |                       |                |            |   |   |         |   |  |  |  |  |  |  |         |  |

|   |                              |                         |           |   |
|---|------------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>Th. F. Tull</i> | Date/Time<br>3-28-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422231 |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |   |



**CHAIN OF CUSTODY**  
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| Proj. #                     |                            | Project name    |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     | Remarks |        |     |
|-----------------------------|----------------------------|-----------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|---------|--------|-----|
| Samplers (Please print)     |                            | Comp. Grab.     | Sample Identification   |               |                      | TCL   | VOA | TCL | SVOA | TCL | Pest/PCB | TAL |         | Metals | TPH |
| DATE                        | Time                       |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| 62470-231                   | MCB Camp Lejeune - Site 28 |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| J Zimmerman                 |                            |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
|                             |                            |                 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| 3-26<br>94                  | 1520                       | G               | 28-E-SB29-00            | S             | 3                    | X   | X   | X   | X    |     |          |     | Routine |        |     |
| 3-26<br>94                  | 1520                       | G               | 28-E-SB29-00D           | S             | 3                    | X   | X   | X   | X    |     |          |     |         |        |     |
| 3-26<br>94                  | 1541                       | G               | 28-E-SB29-02            | S             | 1                    |   |     |     |      | X   |          |     |         |        |     |
| 3-26<br>94                  | 1625                       | G               | 28-E-SB30-00            | S             | 3                    |   |     |     |      | X   | X        |     |         |        |     |
| 3-26<br>94                  | 1641                       | G               | 28-E-SB30-03            | S             | 3                    |   |     |     |      | X   | X        |     |         |        |     |
| 3-26<br>94                  | 1649                       | G               | 28-E-SB30-05            | S             | 3                    |   |     |     |      | X   | X        |     |         |        |     |
| 3-26<br>94                  | 1735                       | G               | 28-E-SB22-00            | S             | 3                    |   |     |     |      | X   | X        |     |         |        |     |
| 3-26<br>94                  | 1743                       | G               | 28-E-SB22-02            | S             | 3                    |   |     |     |      | X   | X        |     |         |        |     |
| 3-27<br>94                  | 0750                       | G               | 28-SIER-03              | L             | 8                    | X   | X   | X   | X    | X   |          |     |         |        |     |
| 3-27<br>94                  | 0800                       | G               | 28-E-SB35-00            | S             | 3                    | X   | X   | X   | X    |     |          |     |         |        |     |
| 3-27<br>94                  | 0836                       | G               | 28-E-SB35-05            | S             | 1                    | TFT   |     |     |      | X   |          |     |         |        |     |
| 3-27<br>94                  | 1210                       | G               | 28-W-SB14-00            | S             | 3                    |   |     |     |      | X   | X        |     |         |        |     |
| 3-27<br>94                  | 1230                       | G               | 28-W-SB14-02            | S             | 3                    |   |     |     |      | X   | X        |     |         |        |     |
| 3-27<br>94                  | 1258                       | G               | 28-W-SB18-00            | S             | 3                    | X   | X   | X   | X    |     |          |     |         |        |     |
| Relinquished by (Signature) |                            | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- see Remarks for sample turnaround<br>- Airbill # 1630422231 |     |     |      |     |          |     |         |        |     |
| The F. Zwick                |                            | 3-28-94<br>1510 |                         |               |                      |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature) |                            | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |
| Relinquished by (Signature) |                            | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |        |     |

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| Proj. #                     |      | Project name                   |              | Sample Matrix           | Number of containers  | Analyses  |     |   |        |             |  | Remarks |
|-----------------------------|------|--------------------------------|--------------|-------------------------|-----------------------|-----------|-----|---|--------|-------------|--|---------|
| 62470-231                   |      | MCB Camp Lejeune - Site 28     |              |                         |                       | TCL       | VOA | TAL   | Metals |             |  |         |
| Samplers (Please print)     |      |                                |              | Comp. Grab.             | Sample Identification |           |     |   |        |             |  |         |
| DATE                        | Time | Zimmerman / K Tu / A Bernhardt |              |                         |                       |           |     |   |        |             |  |         |
| 3-27-94                     | 1302 | G                              | 28-W-SB18-01 | <del>SG</del>           | 1                     |           | X   |   |        | TFT 3-27-94 |  | Routine |
| 3-27-94                     | 2010 | G                              | 28-TB-07     | L                       | 2                     | X         |     |   |        |             |  | ↓       |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
| Relinquished by (Signature) |      | Date/Time                      |              | Received by (Signature) |                       | Date/Time |     | Remarks:<br>- See Remarks for sample turnaround<br>Airbill # 1630422231 |        |             |  |         |
| The F. F. ...               |      | 3-28-94 1500                   |              |                         |                       |           |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
| Relinquished by (Signature) |      | Date/Time                      |              | Received by (Signature) |                       | Date/Time |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |
| Relinquished by (Signature) |      | Date/Time                      |              | Received by (Signature) |                       | Date/Time |     |   |        |             |  |         |
|                             |      |                                |              |                         |                       |           |     |   |        |             |  |         |

**CHAIN OF CUSTODY**  
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Coc # 28008

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| Proj. #                 |                            | Project name |                                     | Sample Matrix | Number of containers | Analyses             |     |     |      |     |          |     |        |     |      |      |      |                 |          |         |
|-------------------------|----------------------------|--------------|-------------------------------------|---------------|----------------------|----------------------|-----|-----|------|-----|----------|-----|--------|-----|------|------|------|-----------------|----------|---------|
| Samplers (Please print) |                            |              |                                     |               |                      | TCL                  | VDA | TCL | SUOA | TCL | Rest/PCB | TAL | Metals | TFH | Full | TCLP | RCRA | Characteristics | * MS/MSD | Remarks |
| DATE                    | Time                       | Comp. Grab.  | Sample Identification               |               |                      |                      |     |     |      |     |          |     |        |     |      |      |      |                 |          |         |
| 62470-231               | MCB Camp Lejeune - Site 28 |              |                                     |               |                      | Zimmerman / W Polkey |     |     |      |     |          |     |        |     |      |      |      |                 |          |         |
| 3-27-94                 | 0808                       | G            | 28-W-SB05-00                        | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 | Routine  |         |
| 3-27-94                 | 0914                       | G            | 28-W-SB08-00                        | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 |          |         |
| 3-27-94                 | 0933                       | G            | 28-W-SB08-04                        | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 |          |         |
| 3-27-94                 | 0945                       | C            | 28-W-SB08                           | S             | 3                    |                      |     |     |      |     |          |     | X      | X   |      |      |      |                 |          |         |
| 3-27-94                 | 1700                       | C            | 28-W-SB41                           | S             | 3                    |                      |     |     |      |     |          |     | X      | X   |      |      |      |                 |          |         |
| 3-27-94                 | 1012                       | G            | 28-W-SB11-00                        | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 |          |         |
| 3-27-94                 | 1027                       | G            | 28-W-SB11-00 <sup>TFT 3-28-94</sup> | S             | 6                    | X                    | X   | X   | X    |     |          |     |        |     |      |      | X    |                 |          |         |
| 3-27-94                 | 1027                       | G            | 28-W-SB11-03D                       | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 |          |         |
| 3-27-94                 | 1112                       | G            | 28-W-SB13-00                        | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 |          |         |
| 3-27-94                 | 1137                       | G            | 28-W-SB13-06                        | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 |          |         |
| 3-27-94                 | 1340                       | G            | 28-W-SB12-00                        | S             | 6                    | X                    | X   | X   | X    |     |          |     |        |     |      |      | X    |                 |          |         |
| 3-27-94                 | 1340                       | G            | 28-W-SB12-00D                       | S             | 3                    | X                    | X   | X   | X    |     |          |     |        |     |      |      |      |                 |          |         |
| 3-28-94                 | 1040                       | G            | 28-TB-08                            | L             | 2                    | X                    |     |     |      |     |          |     |        |     |      |      |      |                 |          |         |

|  |                              |                         |           |  |
|--|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Th. J. [Signature]</i> | Date/Time<br>3-28-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>* MS/MSD<br>- See Remarks for sample turnaround<br>- Full TCLP = Herbicide, Volatile, Semi-Vol<br>Pest/PCB, Metals<br>- RCRA = Ignitability, Reactivity, Corrosivity<br>- Airbill # 1630422231 |
| Relinquished by (Signature)                              | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                              | Date/Time                    | Received by (Signature) | Date/Time |  |

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coc # 28008

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| Proj. #                     |                            | Project name    |                         | Sample Matrix | Number of containers | Analyses  |                  |  |  |  |  | Remarks |  |
|-----------------------------|----------------------------|-----------------|-------------------------|---------------|----------------------|---|------------------|--|--|--|--|---------|--|
| Samplers (Please print)     |                            |                 |                         |               |                      | Grain Size  | Atterburg Limits |  |  |  |  |         |  |
| DATE                        | Time                       | Comp. Grab.     | Sample Identification   |               |                      |   |                  |  |  |  |  |         |  |
| 62470-731                   | MCB Camp Lejeune - Site 28 |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
| J Zimmerman                 |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
| 3-27-94                     | 1700                       | C               | 28-W-SB41               | S             | 3                    | X   | X                |  |  |  |  | Routine |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
|                             |                            |                 |                         |               |                      |   |                  |  |  |  |  |         |  |
| Relinquished by (Signature) |                            | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- Airbill # 1630422231<br>- See Remarks for sample turnaround |                  |  |  |  |  |         |  |
| Th. F. Tubell               |                            | 3-28-94<br>1500 |                         |               |                      |   |                  |  |  |  |  |         |  |
| Relinquished by (Signature) |                            | Date/Time       | Received by (Signature) |               | Date/Time            |   |                  |  |  |  |  |         |  |
| Relinquished by (Signature) |                            | Date/Time       | Received by (Signature) |               | Date/Time            |   |                  |  |  |  |  |         |  |

**CHAIN OF CUSTODY**  
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| Proj. #                              |      | Project name |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     |         | Remarks |     |
|--------------------------------------|------|--------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|---------|---------|-----|
| Samplers (Please print)              |      |              |                         |               |                      | TCL   | VOA | TCL | SVOA | TCL | Pest/PCB | TAL | Metals  |         | TPH |
| DATE                                 | Time | Comp. Grab.  | Sample Identification   |               |                      |   |     |     |      |     |          |     |         |         |     |
| 62470-231 MCB Camp Lejeune - Site 28 |      |              |                         |               |                      |   |     |     |      |     |          |     |         |         |     |
| J Zimmerman / KTua                   |      |              |                         |               |                      |   |     |     |      |     |          |     |         |         |     |
| 3-27<br>94                           | 1413 | G            | 28-W-SB12-05            | S             | 3                    | X   | X   | X   | X    |     |          |     | Routine |         |     |
| 3-27<br>94                           | 1505 | G            | 28-W-SB06-00            | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |         |     |
| 3-27<br>94                           | 1533 | G            | 28-W-SB06-05            | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |         |     |
| 3-27<br>94                           | 1533 | G            | 28-W-SB06-05D           | S             | 3                    | X   | X   | X   | X    | X   |          |     |         |         |     |
| 3-27<br>94                           | 1608 | G            | 28-W-SB16-00            | S             | 3                    | X   | X   | X   | X    |     |          |     |         |         |     |
| 3-27<br>94                           | 1621 | G            | 28-W-SB16-04            | S             | 1                    |   |     |     | X    |     |          |     | ↓       |         |     |
| 3-27<br>94                           | 1915 | G            | 28-SIER-04              | L             | 5                    | X   | X   | X   | X    |     |          |     | HOLD    |         |     |
| 3-28<br>94                           | 0820 | G            | 28-E-SB34-00            | S             | 3                    | X   | X   | X   | X    |     |          |     | Routine |         |     |
| 3-28<br>94                           | 0837 | G            | 28-E-SB34-03            | S             | 1                    |   |     |     | X    |     |          |     |         |         |     |
| 3-28<br>94                           | 0848 | G            | 28-E-SB34-06            | S             | 1                    |   |     |     | X    |     |          |     |         |         |     |
| 3-28<br>94                           | 0915 | G            | 28-E-SB27-00            | S             | 3                    | X   | X   | X   | X    |     |          |     |         |         |     |
| 3-28<br>94                           | 0930 | G            | 28-E-SB27-04            | S             | 1                    |   |     |     | X    |     |          |     |         |         |     |
| 3-28<br>94                           | 1010 | G            | 28-BB-SB38-00           | S             | 3                    | X   | X   | X   | X    |     |          |     |         |         |     |
| 3-28<br>94                           | 1027 | G            | 28-BB-SB38-04           | S             | 3                    | X   | X   | X   | X    |     |          |     | ↓       |         |     |
| Relinquished by (Signature)          |      | Date/Time    | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for Sample turnaround<br>- Airbill # 1630422231 |     |     |      |     |          |     |         |         |     |
| 7h 7. Tuttle                         |      |              |                         |               |                      |   |     |     |      |     |          |     |         |         |     |
| Relinquished by (Signature)          |      | Date/Time    | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |         |     |
| Relinquished by (Signature)          |      | Date/Time    | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |         |         |     |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 28009

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| Proj. #                           |                            | Project name |                       | Sample Matrix | Number of containers | Analyses |          |              |            |      |                 |                  |            | Remarks |
|-----------------------------------|----------------------------|--------------|-----------------------|---------------|----------------------|----------|----------|--------------|------------|------|-----------------|------------------|------------|---------|
| Samplers (Please print)           |                            |              |                       |               |                      | TCL VOA  | TCL SVOA | TCL Pest/PEB | TAL Metals | RCRA | Characteristics | Afterburg Limits | Grain Size |         |
| DATE                              | Time                       | Comp. Grab.  | Sample Identification |               |                      |          |          |              |            |      |                 |                  |            |         |
| 62470-231                         | MCB Camp Lejeune - Site 28 |              |                       |               |                      |          |          |              |            |      |                 |                  |            |         |
| J Zimmerman / K Twa / A Bernhardt |                            |              |                       |               |                      |          |          |              |            |      |                 |                  |            |         |
| 3-28-94                           | 1100                       | G            | 28-BB-SB37-00         | S             | 3                    | X        | X        | X            | X          |      |                 |                  |            | Routine |
| 3-28-94                           | 1120                       | G            | 28-BB-SB37-03         | S             | 3                    | X        | X        | X            | X          |      |                 |                  |            |         |
| 3-28-94                           | 1135                       | C            | 28-E-SB42             | S             | 3                    |          |          |              |            |      | X               | X                |            |         |
| 3-28-94<br><del>1300</del>        | 1300                       | G            | 28-TB-09              | L             | 2                    | X        |          |              |            |      |                 |                  |            | ↓       |

|                             |                 |                         |           |  |
|-----------------------------|-----------------|-------------------------|-----------|--|
| Relinquished by (Signature) | Date/Time       | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for Sample turnaround<br>- Airbill # 16304 22231 |
| <i>J. F. Tull</i>           | 3-28-94<br>1500 |                         |           |  |
| Relinquished by (Signature) | Date/Time       | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature) | Date/Time       | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY**      COC # 28010  
Original Chain of Custody goes to Laboratory

| Proj. #                     |      | Project name    |                         | Sample Matrix | Number of containers | Analyses   |      |             |                       |         |          |              |            |           |                      | Remarks |          |
|-----------------------------|------|-----------------|-------------------------|---------------|----------------------|--|------|-------------|-----------------------|---------|----------|--------------|------------|-----------|----------------------|---------|----------|
| Samplers (Please print)     |      |                 |                         |               |                      | DATE   | Time | Comp. Grab. | Sample Identification | TCL VOA | TCL SVOA | TCL Pest/PCB | TAL Metals | Full TCLP | RCRA Characteristics |         | Hardness |
| K. Tna / A Bernhardt        |      |                 |                         |               |                      |  |      |             |                       |         |          |              |            |           |                      |         |          |
| 3-28-94                     | 1135 | C               | Z8-E-SB42               | S             | 3                    |  |      |             |                       |         |          | X            | X          |           |                      | Routine |          |
| 3-28-94                     | 1135 | C               | Z8-E-SB42D              | S             | 2                    |  |      |             |                       |         |          | X            |            |           |                      |         |          |
| 3-27-94                     | 0900 | G               | Z8-SDER-01              | L             | 5                    | X  | X    | X           | X                     |         |          |              |            |           |                      |         |          |
| 3-27-94                     | 1017 | G               | Z8-CC-SW02              | L             | 6                    | X  | X    | X           | X                     |         |          |              |            | X         |                      |         |          |
| 3-27-94                     | 1038 | G               | Z8-CC-SD02-612          | S             | 3                    | X  | X    | X           | X                     |         |          |              |            |           |                      |         |          |
| 3-27-94                     | 1040 | G               | Z8-CC-SD02-06           | S             | 3                    | X  | X    | X           | X                     |         |          |              |            |           |                      |         |          |
| 3-27-94                     | 1110 | G               | Z8-CC-SW03              | L             | 6                    | X  | X    | X           | X                     |         |          |              |            | X         |                      |         |          |
| 3-27-94                     | 1259 | G               | Z8-CC-SD05-612          | S             | 3                    | X  | X    | X           | X                     |         |          |              |            |           |                      |         |          |
| 3-27-94                     | 1301 | G               | Z8-CC-SD05-06           | S             | 3                    | X  | X    | X           | X                     |         |          |              |            |           |                      |         |          |
| 3-27-94                     | 1338 | G               | Z8-CC-SD07-612          | S             | 3                    | X  | X    | X           | X                     |         |          |              |            |           |                      |         |          |
| 3-27-94                     | 1330 | G               | Z8-TB-10                | L             | 2                    | X  |      |             |                       |         |          |              |            |           |                      |         |          |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422231<br>- Full TCLP = Herb, Pest/PCB, VOA, SVOA Metal<br>- RCRA char = Ignite, Flame, Corrosive |      |             |                       |         |          |              |            |           |                      |         |          |
| Th. F. Tullih               |      | 3-28-94<br>1500 |                         |               |                      |  |      |             |                       |         |          |              |            |           |                      |         |          |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |  |      |             |                       |         |          |              |            |           |                      |         |          |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |  |      |             |                       |         |          |              |            |           |                      |         |          |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC# 28011

| Proj. #                 |                            | Project name |                       | Sample Matrix | Number of containers | Analyses |     |     |      |     |        |     | Remarks |        |          |
|-------------------------|----------------------------|--------------|-----------------------|---------------|----------------------|----------|-----|-----|------|-----|--------|-----|---------|--------|----------|
| Samplers (Please print) |                            |              |                       |               |                      | TCL      | VOA | TCL | SVOA | TCL | PST/RB | TAL |         | Metals | Hardness |
| DATE                    | Time                       | Comp. Grab.  | Sample Identification |               |                      |          |     |     |      |     |        |     |         |        |          |
| 62470-231               | MCB Camp Lejeune - Site 28 |              |                       |               |                      |          |     |     |      |     |        |     |         |        |          |
| A Bernhardt ©           |                            |              |                       |               |                      |          |     |     |      |     |        |     |         |        |          |
| 3-27-94                 | 1153                       | G            | 28-CC-SW04            | L             | 6                    | X        | X   | X   | X    | X   |        |     | Routine |        |          |
| 3-27-94                 | 1246                       | G            | 28-CC-SW05            | L             | 6                    | X        | X   | X   | X    | X   |        |     |         |        |          |
| 3-27-94                 | 1340                       | G            | 28-CC-SD07-06         | S             | 3                    | X        | X   | X   | X    |     |        |     |         |        |          |
| 3-27-94                 | 1357                       | G            | 28-CC-SW07            | L             | 6                    | X        | X   | X   | X    | X   |        |     |         |        |          |
| 3-27-94                 | 1735                       | G            | 28-CC-SW06            | L             | 6                    | X        | X   | X   | X    | X   |        |     |         |        |          |
| 3-27-94                 | 1755                       | G            | 28-CC-SD06-612        | S             | 3                    | X        | X   | X   | X    |     |        |     |         |        |          |
| 3-27-94                 | 1757                       | G            | 28-CC-SD06-06         | S             | 3                    | X        | X   | X   | X    |     |        |     |         |        |          |
| 3-27-94                 | 1920                       | G            | 28-SDER-02            | L             | 5                    | X        | X   | X   | X    |     |        |     |         |        |          |
| 3-28-94                 | 1400                       | G            | 28-TB-11              | L             | 2                    | X        |     |     |      |     |        |     |         |        |          |

|   |                              |                         |           |   |
|---|------------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>Th. F. Talley</i> | Date/Time<br>3-28-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>- see Remarks for sample turnaround<br>- Airbill # 1630422231 |
| Relinquished by (Signature)                         | Date/Time                    | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                         | Date/Time                    | Received by (Signature) | Date/Time |   |



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| Proj. #                 |            | Project name                        |                | Sample Matrix | Number of containers | Analyses |      |             |                       |         |          |              |            | *MS/MSD | Remarks |          |
|-------------------------|------------|-------------------------------------|----------------|---------------|----------------------|----------|------|-------------|-----------------------|---------|----------|--------------|------------|---------|---------|----------|
| Samplers (Please print) |            |                                     |                |               |                      | DATE     | Time | Comp. Grab. | Sample Identification | TCL UGA | TCL SVOA | TCL Pest/PEB | TAL Metals |         |         | Hardness |
| A Bernhardt (C)         |            |                                     |                |               |                      |          |      |             |                       |         |          |              |            |         |         |          |
| 3-28<br>94              | 1210       | G                                   | 28-OP-SD01-61Z | S             | 3                    | X        | X    | X           | X                     |         |          |              |            | Routine |         |          |
| 3-28<br>94              | 1212       | G                                   | 28-OP-SD01-06  | S             | 6                    | X        | X    | X           | X                     |         |          |              | X          |         |         |          |
| 3-28<br>94              | 1212       | G                                   | 28-OP-SD01-06D | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |         |         |          |
| 3-28<br>94              | 1500       | G                                   | 28-OP-SD02-61Z | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |         |         |          |
| 3-28<br>94              | 1502       | G                                   | 28-OP-SD02-06  | S             | 1                    | X        |      |             |                       |         |          |              |            |         |         |          |
| 3-28<br>94              | 1600       | G                                   | 28-CC-SD04-61Z | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |         |         |          |
| 3-28<br>94              | 1602       | G                                   | 28-CC-SD04-06  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |         |         |          |
| TFT<br>3-28-94          | 3-28<br>94 | 13 <sup>30</sup><br><del>1300</del> | G              | 28-NR-SW01    | L                    | 6        | X    | X           | X                     | X       | X        |              |            |         |         |          |
| 3-28<br>94              | 1355       | G                                   | 28-NR-SW02     | L             | 6                    | X        | X    | X           | X                     | X       |          |              |            |         |         |          |
| 3-28<br>94              | 1602       | G                                   | 28-CC-SD04-06D | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |         |         |          |
| 3-28<br>94              | 1645       | G                                   | 28-CC-SD03-61Z | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |         |         |          |
| 3-28<br>94              | 1647       | G                                   | 28-CC-SD03-06  | S             | 3                    | X        | X    | X           | X                     |         |          |              |            |         |         |          |
| 3-28<br>94              | 2115       | G                                   | 28-TB-1Z       | L             | 2                    | X        |      |             |                       |         |          |              |            |         |         |          |

|  |                              |                         |           |  |
|--|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Th. F. Tabbl</i> | Date/Time<br>3-29-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>*MS/MSD<br>- See Remarks for Sample turnaround<br>- Airbill # 1630422220 |
| Relinquished by (Signature)                        | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                        | Date/Time                    | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY**  
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| Proj. #                     |      | Project name |                       | Sample Matrix   | Number of containers    | Analyses |     |          |              |  |          | *MS/MSD | Remarks |
|-----------------------------|------|--------------|-----------------------|-----------------|-------------------------|----------|-----|----------|--------------|--|----------|---------|---------|
| Samplers (Please print)     |      |              |                       |                 |                         | TCL      | VGA | TCL SVGA | TCL Pest/PCB | TAL Metals   | Hardness |         |         |
| DATE                        | Time | Comp. Grab.  | Sample Identification |                 |                         |          |     |          |              |  |          |         |         |
| A Bernhardt ©               |      |              |                       |                 |                         |          |     |          |              |  |          |         |         |
| 3-28<br>94                  | 1015 | G            | 28-OP-SW01            | L               | 12                      | X        | X   | X        | X            | X  |          | X       | Routine |
| 3-28<br>94                  | 1015 | G            | 28-OP-SW01D           | L               | 6                       | X        | X   | X        | X            | X  |          |         | ↓       |
| 3-28<br>94                  | 1020 | G            | 28-OP-SW02            | L               | 6                       | X        | X   | X        | X            | X  |          |         |         |
| 3-28<br>94                  | 2200 | G            | 28-TB-13              | L               | 2                       | X        |     |          |              |  |          |         |         |
| Relinquished by (Signature) |      |              |                       | Date/Time       | Received by (Signature) |          |     |          | Date/Time    | Remarks: *MS/MSD<br>- See Remarks for sample turn around<br>- Airbill # 1630422220 |          |         |         |
| The J. ...                  |      |              |                       | 3-29-94<br>1500 |                         |          |     |          |              |  |          |         |         |
| Relinquished by (Signature) |      |              |                       | Date/Time       | Received by (Signature) |          |     |          | Date/Time    |  |          |         |         |
| Relinquished by (Signature) |      |              |                       | Date/Time       | Received by (Signature) |          |     |          | Date/Time    |  |          |         |         |

**CHAIN OF CUSTODY**  
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| Proj. #                     |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |      |             |                       |         |          |             |            |           |  | Remarks |  |         |  |
|-----------------------------|------|-----------------|-------------------------|---------------|----------------------|---|------|-------------|-----------------------|---------|----------|-------------|------------|-----------|--|---------|--|---------|--|
| Samplers (Please print)     |      |                 |                         |               |                      | DATE  | Time | Comp. Grab. | Sample Identification | TCL UGA | TCL SVGA | TCL PBT/PCB | TAL Metals | Harchness |  |         |  |         |  |
| A Bernhardt                 |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
| 3-28<br>94                  | 1701 | G               | 28-NR-SD01-612          | S             | 3                    | X   | X    | X           | X                     |         |          |             |            |           |  |         |  | Routine |  |
| 3-28<br>94                  | 1703 | G               | 28-NR-SD01-06           | S             | 3                    | X   | X    | X           | X                     |         |          |             |            |           |  |         |  |         |  |
| 3-29<br>94                  | 0720 | G               | 28-SDER-03              | S             | 5                    | X   | X    | X           | X                     |         |          |             |            |           |  |         |  |         |  |
| 3-29<br>94                  | 1300 | G               | 28-CC-SW01              | S             | 6                    | X   | X    | X           | X                     | X       |          |             |            |           |  |         |  |         |  |
| 3-29<br>94                  | 1400 | G               | 28-TB-14                | S             | 2                    | X   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
|                             |      |                 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422220 |      |             |                       |         |          |             |            |           |  |         |  |         |  |
| 767. Zehle                  |      | 3-29-94<br>1500 |                         |               |                      |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |      |             |                       |         |          |             |            |           |  |         |  |         |  |

**CHAIN OF CUSTODY**  
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| Proj. #                     |      | Project name    |                         | Sample Matrix              | Number of containers | Analyses                         |         |                     |            | Remarks   |  |
|-----------------------------|------|-----------------|-------------------------|----------------------------|----------------------|----------------------------------|---------|---------------------|------------|-----------|--|
| Samplers (Please print)     |      |                 |                         |                            |                      | TEL VOA                          | TEL SWA | TEL Post/Pre        | TAL metals |           |  |
| DATE                        | Time | Comp. Grab.     | Sample Identification   |                            |                      |                                  |         |                     |            |           |  |
| 62470-231                   |      |                 |                         | MLB Camp Lejeune - Site 28 |                      |                                  |         | Aaron Bernhardt (E) |            |           |  |
| 3-26-94                     | 0800 | G               | 28-F504-SM01            | F                          | 1                    | X                                | X       | X                   | X          | Hold      |  |
| 3-26-94                     | 0800 | G               | 28-F504-SM02            | F                          | 1                    | X                                | X       | X                   | X          | Fur       |  |
| 3-26-94                     | 0800 | G               | 28-F504-SM03            | F                          | 1                    | X                                | X       | X                   | X          | groupings |  |
| 3-26-94                     | 0800 | G               | 28-F504-SM04            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-27-94                     | 0800 | G               | 28-F504-SM05            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-27-94                     | 0800 | G               | 28-F504-SM06            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-28-94                     | 0800 | G               | 28-F504-SM07            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-28-94                     | 0800 | G               | 28-F504-SM08            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-28-94                     | 0800 | G               | 28-F504-SM09            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-28-94                     | 0800 | G               | 28-F504-SM10            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-28-94                     | 0800 | G               | 28-F504-SM11            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-28-94                     | 0800 | G               | 28-F504-SM12            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-28-94                     | 0800 | G               | 28-F504-SM13            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| 3-29-94                     | 0800 | G               | 28-F504-SM01            | F                          | 1                    | X                                | X       | X                   | X          |           |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |                            | Date/Time            | Remarks:<br>Airbill # 1630422216 |         |                     |            |           |  |
| <i>Aaron Bernhardt</i>      |      | 3-29-94<br>1500 |                         |                            |                      |                                  |         |                     |            |           |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |                            | Date/Time            |                                  |         |                     |            |           |  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |                            | Date/Time            |                                  |         |                     |            |           |  |

**CHAIN OF CUSTODY**  
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| Proj. #<br>62470-231                                  |      | Project name<br>MCB Camp Lejeune - S to 28 |  | Sample Matrix | Number of containers | Analyses                         |             |                 |                 | Remarks |           |
|---|------|--|--|---------------|----------------------|----------------------------------|-------------|-----------------|-----------------|---------|-----------|
| Samplers (Please print)<br>Aaron Bernhardt (1)        |      |  |  |               |                      | TLL<br>VUA                       | TLL<br>SVUA | TLL<br>DPA/PA/B | TML<br>M2 to 15 |         |           |
| DATE  | Time | Comp. Grab.                                | Sample Identification                            |               |                      |                                  |             |                 |                 |         |           |
| 3-24-94   | 0900 | G  | 28-FS05-5401                                     | F             | 1                    | X                                | X           | X               | X               |         | Hold      |
| 3-25-94   | 0800 | G  | 28-FS05-6MAF01                                   | F             | 1                    | X                                | X           | X               | X               |         | For       |
| 3-26-94   | 0800 | G  | 28-FS05-6MAF02                                   | F             | 1                    | X                                | X           | X               | X               |         | Groupings |
| 3-26-94   | 0800 | G  | 28-FS05-6MAF03                                   | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-27-94   | 0800 | G  | 28-FS05-6MAF04                                   | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-27-94   | 0900 | G  | 28-FS05-6MAF05                                   | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-27-94   | 0900 | G  | 28-FS05-6MAF06                                   | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-29-94   | 0900 | G  | 28-FS05-6MAF07                                   | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-28-94   | 0900 | G  | 28-FS04-6MAF01                                   | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-28-94   | 1000 | G  | 28-OPFS-LB01                                     | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-28-94   | 1000 | G  | 28-OPFS-LB02                                     | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-28-94   | 1000 | G  | 28-OPFS-UM01                                     | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-28-94   | 1000 | G  | 28-OPFS-UM01 SM01                                | F             | 1                    | X                                | X           | X               | X               |         |           |
| 3-25-94   | 0800 | G  | <del>28-OPFS-UM01</del> 28-FS05- <sup>N=15</sup> | F             | 1                    | X                                | X           | X               | X               |         |           |
| Relinquished by (Signature)<br><i>Aaron Bernhardt</i> |      | Date/Time<br>3-29-94<br>1500               | Received by (Signature)                          |               | Date/Time            | Remarks:<br>Airbill # 1630422216 |             |                 |                 |         |           |
| Relinquished by (Signature)                           |      | Date/Time                                  | Received by (Signature)                          |               | Date/Time            |                                  |             |                 |                 |         |           |
| Relinquished by (Signature)                           |      | Date/Time                                  | Received by (Signature)                          |               | Date/Time            |                                  |             |                 |                 |         |           |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

LOC # 28017

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| Proj. #   |      | Project name    |                         | Sample Matrix | Number of containers | Analyses                         |              |                 |                 | Remarks   |
|---|------|-----------------|-------------------------|---------------|----------------------|----------------------------------|--------------|-----------------|-----------------|-----------|
| Samplers (Please print)                         |      |                 |                         |               |                      | TEL<br>VOL                       | TEL<br>SMOKE | TEL<br>DUST/PPM | TOTAL<br>Metals |           |
| DATE  | Time | Comp. Grab.     | Sample Identification   |               |                      |                                  |              |                 |                 |           |
| 62470-231 MCB Camp Lejeune<br>Aaron Bernhardt © |      |                 |                         |               |                      |                                  |              |                 |                 |           |
| 3-25-94   | 0900 | G               | 28-F505-SM02            | F             | 1                    | X                                | X            | X               | X               | Hold      |
| 3-26-94   | 1600 | G               | 28-F505-SM03            | F             | 1                    | X                                | X            | X               | X               | For       |
| 3-27-94   | 0900 | G               | 28-F505-SM04            | F             | 1                    | X                                | X            | X               | X               | Groupings |
| 3-27-94   | 0800 | G               | 28-F505-SM05            | F             | 1                    | X                                | X            | X               | X               |           |
| 3-27-94   | 0800 | G               | 28-F505-SM06            | F             | 1                    | X                                | X            | X               | X               |           |
| 3-28-94   | 0800 | G               | 28-F504-BD01            | F             | 1                    | X                                | X            | X               | X               |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
|   |      |                 |                         |               |                      |                                  |              |                 |                 |           |
| Relinquished by (Signature)                     |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>Airbill # 1630422216 |              |                 |                 |           |
| <i>[Signature]</i>                              |      | 3-29-94<br>1500 |                         |               |                      |                                  |              |                 |                 |           |
| Relinquished by (Signature)                     |      | Date/Time       | Received by (Signature) |               | Date/Time            |                                  |              |                 |                 |           |
| Relinquished by (Signature)                     |      | Date/Time       | Received by (Signature) |               | Date/Time            |                                  |              |                 |                 |           |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # Z8017

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| Proj. #   |      | Project name                 |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     |          |     |       |          |         | * MS/MSD | Remarks |
|---|------|------------------------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|----------|-----|-------|----------|---------|----------|---------|
| 62470-231 MCB Camp Lejeune - Site Z8              |      |                              |                         |               |                      | TCL   | UCA | TCL | SVOC | TCL | Rest/PCB | TAL | Metal | Hardness |         |          |         |
| DATE  | Time | Comp. Grab.                  | Sample Identification   |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
| Samplers (Please print)<br>A Bernhardt            |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
| 3-29<br>94  | 1310 | G                            | Z8-NR-SW04              | L             | 11                   | X   | X   | X   | X    | X   |          |     |       | X        | Routine |          |         |
| 3-29<br>94  | 1310 | G                            | Z8-NR-SW04D             | L             | 5                    | X   | X   | X   | X    |     |          |     |       |          | Routine |          |         |
| 3-29<br>94  | 1340 | G                            | Z8-NR-SW05              | L             | 6                    | X   | X   | X   | X    | X   |          |     |       |          | Routine |          |         |
| 3-30<br>94  | 1000 | G                            | Z8-TB-15                | L             | 2                    | X   |     |     |      |     |          |     |       |          | Routine |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
|   |      |                              |                         |               |                      |   |     |     |      |     |          |     |       |          |         |          |         |
| Relinquished by (Signature)<br><i>JL F. White</i> |      | Date/Time<br>3-30-94<br>1500 | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turn<br>- Airbill # 1630422194<br>* MS/MSD |     |     |      |     |          |     |       |          |         |          |         |
| Relinquished by (Signature)                       |      | Date/Time                    | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |       |          |         |          |         |
| Relinquished by (Signature)                       |      | Date/Time                    | Received by (Signature) |               | Date/Time            |   |     |     |      |     |          |     |       |          |         |          |         |

**CHAIN OF CUSTODY**      COC # 28018  
Original Chain of Custody goes to Laboratory

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| Proj. #                              |      | Project name   |                         | Sample Matrix | Number of containers | Analyses  |      |     |          |     | Remarks |
|--------------------------------------|------|----------------|-------------------------|---------------|----------------------|---|------|-----|----------|-----|---------|
| Samplers (Please print)              |      |                |                         |               |                      | TCL   | SVOA | TCL | Pest/PCB | TAL |         |
| DATE                                 | Time | Comp. Grab.    | Sample Identification   |               |                      |   |      |     |          |     |         |
| 62476-231 MCB Camp Lejeune - Site 28 |      |                |                         |               |                      |   |      |     |          |     |         |
| T Trebilcock / B Cummings            |      |                |                         |               |                      |   |      |     |          |     |         |
| 4-5-94                               | 1855 | G              | 28-CC-SW06              | L             | 1                    |   | X    |     |          |     | Routine |
| 4-5-94                               | 1930 | G              | 28-CC-SW05              | L             | 2                    | X   | X    |     |          |     | ↓       |
| 4-5-94                               | 1940 | G              | 28-OP-SW02              | L             | 1                    |   | X    |     |          |     | ↓       |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
|                                      |      |                |                         |               |                      |   |      |     |          |     |         |
| Relinquished by (Signature)          |      | Date/Time      | Received by (Signature) |               | Date/Time            | Remarks:<br>- Airbill # 1630422010<br>- See Remarks for sample turnaround<br>- Includes fractions broken during original shipment |      |     |          |     |         |
| <i>Jh J. Trebilcock</i>              |      | 4-6-94<br>1500 |                         |               |                      |   |      |     |          |     |         |
| Relinquished by (Signature)          |      | Date/Time      | Received by (Signature) |               | Date/Time            |   |      |     |          |     |         |
| Relinquished by (Signature)          |      | Date/Time      | Received by (Signature) |               | Date/Time            |   |      |     |          |     |         |



**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC# 28019

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| Proj. #                              |      | Project name   |                         | Sample Matrix | Number of containers | Analyses   |     |     |      |            |          | * MS/MSD | Remarks |     |        |
|--------------------------------------|------|----------------|-------------------------|---------------|----------------------|--|-----|-----|------|------------|----------|----------|---------|-----|--------|
| Samplers (Please print)              |      |                |                         |               |                      | TCL  | VOA | TCL | SVOA | TCL        | Pest/PCB |          |         | TAL | Metals |
| DATE                                 | Time | Comp. Grab.    | Sample Identification   |               |                      |  |     |     |      |            |          |          |         |     |        |
| 62470-231 MCB Camp Lejeune - Site 28 |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
| J Zimmerman (A) / kTua (B)           |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
| 4-7-94                               | 1307 | G              | 28-GW09DW-00            | S             | 3                    | X  | X   | X   | X    |            |          |          | Routine |     |        |
| 4-7-94                               | 0935 | G              | 28-GW09DW-01            | S             | 3                    | X  | X   | X   | X    |            |          |          |         |     |        |
| 4-7-94                               | 1010 | G              | 28-GW05-00              | S             | 3                    | X  | X   | X   | X    | TFT 4-7-94 |          | X        |         |     |        |
| 4-7-94                               | 1010 | G              | 28-GW05-00D             | S             | 3                    | X  | X   | X   | X    |            |          |          |         |     |        |
| 4-7-94                               | 1022 | G              | 28-GW05-04              | S             | 3                    | X  | X   | X   | X    |            |          |          |         |     |        |
| 4-7-94                               | 1420 | G              | 28-SIER-05              | L             | 5                    | X  | X   | X   | X    |            |          |          |         |     |        |
| 4-7-94                               | 1430 | G              | 28-TB-16                | L             | 2                    | X  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
|                                      |      |                |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
| Relinquished by (Signature)          |      | Date/Time      | Received by (Signature) |               | Date/Time            | Remarks: * MS/MSD<br>- See Remarks for sample turnaround<br>- Airbill # 1630422624 |     |     |      |            |          |          |         |     |        |
| Thomas F. Trubille                   |      | 4-7-94<br>1500 |                         |               |                      |  |     |     |      |            |          |          |         |     |        |
| Relinquished by (Signature)          |      | Date/Time      | Received by (Signature) |               | Date/Time            |  |     |     |      |            |          |          |         |     |        |
| Relinquished by (Signature)          |      | Date/Time      | Received by (Signature) |               | Date/Time            |  |     |     |      |            |          |          |         |     |        |

**CHAIN OF CUSTODY**      COC # 28020  
Original Chain of Custody goes to Laboratory

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| Proj. #                                    |                         | Project name |                       | Sample Matrix | Number of containers | Analyses |     |     |      |     |         |     | Remarks |        |             |
|--|-------------------------|--------------|-----------------------|---------------|----------------------|----------|-----|-----|------|-----|---------|-----|---------|--------|-------------|
| Samplers (Please print)                    |                         |              |                       |               |                      | TCL      | VDA | TCL | SVOA | TCL | Res/PCB | TAL |         | Metals | EPA 601/602 |
| DATE                                       | Time                    | Comp. Grab.  | Sample Identification |               |                      |          |     |     |      |     |         |     |         |        |             |
| 62470-231                                  | MCB Camp Lejeune - OU 7 |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
| T Trebilcock / J Zimmerman (A) / K Tug (B) |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
| 4-7-94                                     | 1440                    | G            | 28-GW06-00            | S             | 3                    | X        | X   | X   | X    |     |         |     | Routine |        |             |
| 4-7-94                                     | 1506                    | G            | 28-GW06-04            | S             | 3                    | X        | X   | X   | X    |     |         |     | ↓       |        |             |
| 4-7-94                                     | 1518                    | G            | 28-GW06-08            | S             | 3                    | X        | X   | X   | X    |     |         |     | ↓       |        |             |
| 4-7-94                                     | 1850                    | G            | 28-TGW01-01           | L             | 4                    |          | X   |     |      |     | X       |     | 7-day   |        |             |
| 4-8-94                                     | 1649                    | G            | 28-GW07-00            | S             | 3                    | X        | X   | X   | X    |     |         |     | Routine |        |             |
| 4-8-94                                     | 1102                    | G            | 28-GW07-01            | S             | 3                    | X        | X   | X   | X    |     |         |     | Routine |        |             |
| 4-8-94                                     | 1515                    | G            | 28-SIER-06            | L             | 5                    | X        | X   | X   | X    |     |         |     | Hold    |        |             |
| 4-8-94                                     | 1530                    | G            | 28-TB-17              | L             | 2                    | X        |     |     |      |     |         |     | Routine |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |
|  |                         |              |                       |               |                      |          |     |     |      |     |         |     |         |        |             |

|   |                             |                         |           |   |
|---|-----------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>J. F. Tug</i> | Date/Time<br>4-8-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- Remarks for sample turnaround<br>- Airbill # 1630422091 |
| Relinquished by (Signature)                     | Date/Time                   | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                     | Date/Time                   | Received by (Signature) | Date/Time |   |

# CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

COC # 28021

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| Proj. #                     |    | Project name    |   | Sample Matrix           | Number of containers | Analyses  |      |   |                       |     |     |     |      | Remarks |     |          |     |        |
|-----------------------------|----|-----------------|---|-------------------------|----------------------|-----------|------|---|-----------------------|-----|-----|-----|------|---------|-----|----------|-----|--------|
| Samplers (Please print)     |    |                 |   |                         |                      | DATE      | Time | Comp. Grab.   | Sample Identification | TCL | VOA | TCL | SVOA |         | TCL | Rest/PCB | TAL | Metals |
| J Zimmerman (A) / KTua (B)  |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
| 4-9                         | 94 | 0812            | G | 28-GW08-00              | S                    | 3         | X    | X   | X                     | X   |     |     |      |         |     | Routine  |     |        |
| 4-9                         | 94 | 0844            | G | 28-GW08-05              | S                    | 3         | X    | X   | X                     | X   |     |     |      |         |     | ↓        |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
|                             |    |                 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
| Relinquished by (Signature) |    | Date/Time       |   | Received by (Signature) |                      | Date/Time |      | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 16#30422113<br>- Reference 1-TB-10 on COC # 01012 for Trip Blank (Cross contamination) |                       |     |     |     |      |         |     |          |     |        |
| <i>The F. Tubish</i>        |    | 4-11-94<br>1600 |   |                         |                      |           |      |   |                       |     |     |     |      |         |     |          |     |        |
| Relinquished by (Signature) |    | Date/Time       |   | Received by (Signature) |                      | Date/Time |      |   |                       |     |     |     |      |         |     |          |     |        |
| Relinquished by (Signature) |    | Date/Time       |   | Received by (Signature) |                      | Date/Time |      |   |                       |     |     |     |      |         |     |          |     |        |

CHAIN OF CUSTODY  
 Original Chain of Custody goes to Laboratory

COX # 28022

| Proj. #   |      | Project name                 |                       | Sample Matrix           | Number of containers | Analyses  |          |   |     | TAL Metals |  |  | Remarks |
|---|------|------------------------------|-----------------------|-------------------------|----------------------|-----------|----------|---|-----|------------|--|--|---------|
| Samplers (Please print)                           |      |                              |                       |                         |                      | TCL VOA   | TCL SVOA | TCL Pest/PCB  | TAL |            |  |  |         |
| DATE  | Time | Comp. Grab.                  | Sample Identification |                         |                      |           |          |   |     |            |  |  |         |
| 62470-231 MCB Camp Lejeune -OU #7<br>KTua (B)     |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
| 4-18-94   | 1425 | G                            | 28-GW07DW-01          | S                       | 3                    | X         | X        | X   | X   |            |  |  | Routine |
| 4-18-94   | 1400 | G                            | 28-GW07DW-00          | S                       | 3                    | X         | X        | X   | X   |            |  |  | ↓       |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
|   |      |                              |                       |                         |                      |           |          |   |     |            |  |  |         |
| Relinquished by (Signature)<br><i>[Signature]</i> |      | Date/Time<br>4-18-94<br>1600 |                       | Received by (Signature) |                      | Date/Time |          | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422150<br>- Reference 1-TB-14 on COC # 01015 for trip blank (Cross contamination) |     |            |  |  |         |
| Relinquished by (Signature)                       |      | Date/Time                    |                       | Received by (Signature) |                      | Date/Time |          |   |     |            |  |  |         |
| Relinquished by (Signature)                       |      | Date/Time                    |                       | Received by (Signature) |                      | Date/Time |          |   |     |            |  |  |         |

**CHAIN OF CUSTODY**  
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| Proj. #                             |      | Project name |                       | Sample Matrix | Number of containers | Analyses |          |          |         |            |             |                  |  | Remarks |
|-------------------------------------|------|--------------|-----------------------|---------------|----------------------|----------|----------|----------|---------|------------|-------------|------------------|--|---------|
| Samplers (Please print)             |      |              |                       |               |                      | TCL UoA  | TCL SVOA | TCL Pest | TCL PCB | TAL Metals | EPA 601/602 | TAL Diss. Metals |  |         |
| DATE                                | Time | Comp. Grab.  | Sample Identification |               |                      |          |          |          |         |            |             |                  |  |         |
| 62470-231 MCB Camp Lejeune - OU # 7 |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
| K Tua <sup>(B)</sup> / M Taube      |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
| 4-20-94                             | 0745 | G            | 28-GW01-00            | S             | 3                    | X        | X        | X        | X       | X          |             |                  |  | Routine |
| 4-20-94                             | 0800 | G            | 28-GW01-01            | S             | 3                    | X        | X        | X        | X       | X          |             |                  |  |         |
| 4-20-94                             | 1300 | G            | 28-TGWPA-01           | L             | 8                    |          | X        | X        |         | X          | X           |                  |  |         |
| 4-20-94                             | 1300 | G            | 28-TGW PAD-01         | L             | 1                    |          |          |          |         |            |             | X                |  |         |
| 4-20-94                             | 1505 | G            | 28-GWER-01            | L             | 5                    |          | X        | X        |         | X          | X           |                  |  |         |
| 4-20-94                             | 1505 | G            | 28-GWERD-01           | L             | 1                    |          |          |          |         |            |             | X                |  |         |
| 4-20-94                             | 1530 | G            | 28-TB-18              | L             | 4                    | X        |          |          |         |            | X           |                  |  | ↙       |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |
|                                     |      |              |                       |               |                      |          |          |          |         |            |             |                  |  |         |

|   |                              |                         |           |  |
|---|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>[Signature]</i> | Date/Time<br>4-20-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>-See Remarks for sample turn around<br>-Airbill # 1630422135 |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

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| Proj. #                              |      | Project name              |                       | Sample Matrix | Number of containers | Analyses    |              |          |          |         |            |                      |         | Remarks |
|--------------------------------------|------|---------------------------|-----------------------|---------------|----------------------|-------------|--------------|----------|----------|---------|------------|----------------------|---------|---------|
| 62470-231                            |      | MCB Camp Lejeune - OU # 7 |                       |               |                      | EPA 601/602 | TCL VOA      | TCL SVOA | TCL Pest | TCL PCB | TAL Metals | TAL Dissolved Metals |         |         |
| DATE                                 | Time | Comp. Grab.               | Sample Identification |               |                      |             |              |          |          |         |            |                      |         |         |
| Samplers (Please print)<br>K. T. Yea |      |                           |                       |               |                      |             |              |          |          |         |            |                      |         |         |
| 4-20<br>94                           | 1710 | G                         | 28-GW02-01            | L             | 7                    | X           |              | X        | X        |         | X          |                      | Routine |         |
| 4-20<br>94                           | 1710 | G                         | 28-GW02D-01           | L             | 1                    |             |              |          |          |         | X          |                      |         |         |
| 4-20<br>94                           | 1830 | G                         | 28-GW04-01            | L             | 7                    | X           |              | X        | X        |         | X          |                      |         |         |
| 4-20<br>94                           | 1830 | G                         | 28-GW04D-01           | L             | 1                    |             |              |          |          |         | X          |                      |         |         |
| 4-21<br>94                           | 0730 | G                         | 28-TB-19              | L             | 3                    | X           | X            |          |          |         |            |                      |         |         |
| 4-21<br>94                           | 0940 | G                         | 28-GW03-01            | L             | 7                    | X           |              | X        | X        |         | X          |                      |         |         |
| 4-21<br>94                           | 0940 | G                         | 28-GW03D-01           | L             | 1                    |             |              |          |          |         | X          |                      |         |         |
| 4-21<br>94                           | 1215 | G                         | 28-MW13-01            | L             | 7                    | X           | <del>X</del> | X        | X        |         | X          |                      |         |         |
| 4-21<br>94                           | 1215 | G                         | 28-MW13D-01           | L             | 1                    |             | NO P         |          |          |         | X          |                      |         |         |
| 4-21<br>94                           | 1235 | G                         | 28-GWØ1DW-00          | S             | 3                    |             | X            | X        | X        | X       | X          |                      |         |         |
| 4-21<br>94                           | 1240 | G                         | 28-GWØ1DW-01          | S             | 3                    |             | X            | X        | X        | X       | X          |                      | ↓       |         |

|   |                              |                         |           |  |
|---|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>[Signature]</i> | Date/Time<br>4-21-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630421866 |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |  |

### CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

| Proj. # <u>62470- EFO 231</u>  |      | Project name <u>MCB Camp Lejeune</u> |                       | Sample Matrix | Number of containers | Analyses      |                    |              |     |            |  |  | Remarks |
|--|------|--------------------------------------|-----------------------|---------------|----------------------|---------------|--------------------|--------------|-----|------------|--|--|---------|
| Samplers (Please print)<br><u>Aaron Berhardt, Miles Musoler, Bill Jeffords</u> |      |                                      |                       |               |                      | TCL Volatiles | TCL Semi volatiles | TCL Pest/PCP | TAL | Inorganics |  |  |         |
| DATE   | Time | Comp. Grab.                          | Sample Identification |               |                      |               |                    |              |     |            |  |  |         |
| 4-20   | 1910 | <del>LB</del>                        | 28-CC-F501-BC01       | FS            | 1                    | X             | X                  | X            | X   |            |  |  |         |
| 4-20   | 1910 |                                      | 28-CC-F501-PS01       |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-20   | 1910 |                                      | 28-CC-F501-PS02       |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-20   | 1910 |                                      | 28-CC-F501-SM01       |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-WM01          |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-LMB03         |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-LMB04         |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-LMB05         |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-LMB06         |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-AE01          |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-AE02          |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-R501          |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 |                                      | 28-OPFS-R502          |               |                      | X             | X                  | X            | X   |            |  |  |         |
| 4-19   | 0800 | F                                    | 28-OPFS-R503          |               |                      | X             | X                  | X            | X   |            |  |  |         |

|  |                              |                         |           |  |
|--|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br> | Date/Time<br>4-21-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br><u>Hold for groupings.</u> |
| Relinquished by (Signature)  | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)  | Date/Time                    | Received by (Signature) | Date/Time |  |

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Original Chain of Custody goes to Laboratory

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| Proj. # 62470<br>ETO 231  |                 | Project name<br>MCB Camp Lejeune |                                    | Sample Matrix | Number of containers | Analyses     |           |     |               |     |          |     | Remarks |
|---|-----------------|----------------------------------|------------------------------------|---------------|----------------------|--------------|-----------|-----|---------------|-----|----------|-----|---------|
| Samplers (Please print)<br>Aaron Bernhard, Mike Musola, Bill Jeffords |                 |                                  |                                    |               |                      | TCL          | Volatiles | TCL | Semivolatiles | TCL | Pest/PCB | TAL |         |
| DATE  | Time            | Comp. Grab.                      | Sample Identification              |               |                      |              |           |     |               |     |          |     |         |
| 4-19  | 0700            | G-B                              | 28-OPFS-A504                       | FS            | 1                    | X            | X         | X   | X             |     |          |     |         |
| 4-19  | 0700            |                                  | 28-OPFS-A505                       |               |                      | X            | X         | X   | X             |     |          |     |         |
| 4-19  | 0700            |                                  | 28-OPFS-A506                       |               |                      | X            | X         | X   | X             |     |          |     |         |
| 4-19  | 0700            |                                  | 28-OPFS-A507                       |               |                      | X            | X         | X   | X             |     |          |     |         |
| 4-19  | 0700            |                                  | 28-OPFS-A508                       |               |                      | X            | X         | X   | X             |     |          |     |         |
| 4-19  | 0700            |                                  | 28-OPFS-BG01                       |               |                      | X            | X         | X   | X             |     |          |     |         |
| <del>4-21</del>   | <del>1330</del> | <del>G</del>                     | <del>28-TB-20</del> <sup>AMB</sup> | <del>L</del>  | <del>1</del>         | <del>X</del> |           |     |               |     |          |     |         |

|   |                              |                         |           |                                       |
|---|------------------------------|-------------------------|-----------|---------------------------------------|
| Relinquished by (Signature)<br><i>W. A. ...</i> | Date/Time<br>4-21-04<br>1900 | Received by (Signature) | Date/Time | Remarks:<br><i>Hold for groupings</i> |
| Relinquished by (Signature)                     | Date/Time                    | Received by (Signature) | Date/Time |                                       |
| Relinquished by (Signature)                     | Date/Time                    | Received by (Signature) | Date/Time |                                       |



**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

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| Proj. #   |      | Project name                 |                         | Sample Matrix | Number of containers | Analyses   |   |  |  |  |  |  |  | Remarks |
|---|------|------------------------------|-------------------------|---------------|----------------------|--|---|--|--|--|--|--|--|---------|
| 62470-231 MCB Camp Lejeune - OU #7              |      |                              |                         |               |                      | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">EPA 601/602</div> <div style="border: 1px solid black; padding: 2px;">*MS/MSD</div> </div> |   |  |  |  |  |  |  |         |
| Samplers (Please print)<br>K. T. A.             |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
| DATE  | Time | Comp. Grab.                  | Sample Identification   |               |                      |  |   |  |  |  |  |  |  |         |
| 4-21<br>94                                      | 1340 | G                            | 28-GW06-01              | L             | 3                    | X  |   |  |  |  |  |  |  | Routine |
| 4-21<br>94                                      | 1445 | G                            | 28-GW08-01              | L             | 3                    | X  |   |  |  |  |  |  |  |         |
| 4-22<br>94                                      | 1100 | G                            | 28-GW07-01              | L             | 7                    | X  | X |  |  |  |  |  |  |         |
| 4-22<br>94                                      | 1100 | G                            | 28-GW07-01D             | L             | 2                    | X  |   |  |  |  |  |  |  | ↓       |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
|   |      |                              |                         |               |                      |  |   |  |  |  |  |  |  |         |
| Relinquished by (Signature)<br><i>J. F. Ahl</i> |      | Date/Time<br>4-22-94<br>1600 | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 16304219H<br>- Reference 30-TB-04 on COC # 30009<br>for trip blank (cross contamination)<br>*MS/MSD   |   |  |  |  |  |  |  |         |
| Relinquished by (Signature)                     |      | Date/Time                    | Received by (Signature) |               | Date/Time            |  |   |  |  |  |  |  |  |         |
| Relinquished by (Signature)                     |      | Date/Time                    | Received by (Signature) |               | Date/Time            |  |   |  |  |  |  |  |  |         |

**CHAIN OF CUSTODY** COC # 28027  
Original Chain of Custody goes to Laboratory

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| Proj. #                 |                          | Project name |                       | Sample Matrix | Number of containers | Analyses |          |            |                 |          |  |         | Remarks |
|-------------------------|--------------------------|--------------|-----------------------|---------------|----------------------|----------|----------|------------|-----------------|----------|--|---------|---------|
| Samplers (Please print) |                          |              |                       |               |                      | TCL SVOA | TCL Pest | TAL Metals | TAL Diss Metals | * MS/MSD |  |         |         |
| DATE                    | Time                     | Comp. Grab.  | Sample Identification |               |                      |          |          |            |                 |          |  |         |         |
| 62470-231               | MCB Camp Lejeune - OU #7 |              |                       |               |                      |          |          |            |                 |          |  |         |         |
| k. Tuo <sup>A</sup>     |                          |              |                       |               |                      |          |          |            |                 |          |  |         |         |
| 4-21-94                 | 1100                     | G            | 28-GW07-01            | L             | 1                    | X        | X        | X          |                 | X        |  | Routine |         |
| 4-21-94                 | 1100                     | G            | 28-GW07D-01           | L             | 3                    |          |          |            | X               | X        |  | ↓       |         |
| 4-21-94                 | 1100                     | G            | 28-GW07-01D           | L             | 3                    | X        | X        | X          |                 |          |  |         |         |
| 4-21-94                 | 1100                     | G            | 28-GW07D-01D          | L             | 1                    |          |          |            | X               |          |  |         |         |

|   |                              |                         |           |   |
|---|------------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>[Signature]</i> | Date/Time<br>4-20-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turnover<br>- * MS/MSD<br>- Airbill Fed Ex |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |   |

**CHAIN OF CUSTODY**      COC # 28028  
Original Chain of Custody goes to Laboratory

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| Proj. #                              |      | Project name    |                         | Sample Matrix | Number of containers | Analyses                                  |          |            |                      |  |  | Remarks |  |
|--------------------------------------|------|-----------------|-------------------------|---------------|----------------------|---|----------|------------|----------------------|--|--|---------|--|
| 62470-231 MCB Camp Lejeune OU #7     |      |                 |                         |               |                      | TCL SVQA                                  | TCL Pest | TAL Metals | TAL Dissolved Metals |  |  |         |  |
| DATE                                 | Time | Comp. Grab.     | Sample Identification   |               |                      |   |          |            |                      |  |  |         |  |
| Samplers (Please print)<br>k Tuc (A) |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
| 4-21-94                              | 1340 | G               | 28-GW06-01              | L             | 4                    | X   | X        | X          |                      |  |  | Routine |  |
| 4-21-94                              | 1340 | G               | 28-GW06D-01             | L             | 1                    |   |          |            | X                    |  |  |         |  |
| 4-21-94                              | 1445 | G               | 28-GW08-01              | L             | 4                    | X   | X        | X          |                      |  |  |         |  |
| 4-21-94                              | 1445 | G               | 28-GW08D-01             | L             | 1                    |   |          |            | X                    |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
|                                      |      |                 |                         |               |                      |   |          |            |                      |  |  |         |  |
| Relinquished by (Signature)          |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turn |          |            |                      |  |  |         |  |
| <i>[Signature]</i>                   |      | 4-22-94<br>1600 |                         |               |                      |   |          |            |                      |  |  |         |  |
| Relinquished by (Signature)          |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |          |            |                      |  |  |         |  |
| Relinquished by (Signature)          |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |          |            |                      |  |  |         |  |

CHAIN OF CUSTODY COC # 01017/28030  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name           |                               | Sample Matrix | Number of containers    | Analyses    |                       |            |                      | Remarks   |  |         |  |
|-----------------------------|------|------------------------|-------------------------------|---------------|-------------------------|-------------|-----------------------|------------|----------------------|---|--|---------|--|
| 62470-231                   |      | MCB Camp Lejeune OU #7 |                               |               |                         | TCL SUOA    | TCL Pest              | TAL Metals | TAL Dissolved Metals |   |  |         |  |
| Samplers (Please print)     |      |                        |                               | DATE          | Time                    | Comp. Grab. | Sample Identification |            |                      |   |  |         |  |
| kTua A                      |      |                        |                               |               |                         |             |                       |            |                      |   |  |         |  |
| 4-23-94                     | 0900 | G                      | 1-GW06-01                     | L             | 3                       | X           |                       | X          |                      |   |  | Routine |  |
| 4-23-94                     | 0900 | G                      | 1-GW06D-01                    | L             | 1                       |             |                       |            | X                    |   |  | Routine |  |
| 4-23-94                     | 1145 | G                      | 1-GW13-01                     | L             | 3                       | X           |                       | X          |                      |   |  | ↓       |  |
| 4-23-94                     | 1145 | G                      | 1-GW13D-01                    | L             | 1                       |             |                       |            | X                    |   |  |         |  |
| 4-23-94                     | 1600 | G                      | <del>1-GW15-01</del> TFT      |               |                         |             |                       |            |                      |   |  |         |  |
|                             |      |                        | <del>1-GW15D-01</del> 4-23-94 |               |                         |             |                       |            |                      |   |  |         |  |
| 4-23-94                     | 0800 | G                      | 28-GW05-01                    | L             | 4                       | X           | X                     | X          |                      |   |  | Routine |  |
| 4-23-94                     | 0800 | G                      | 28-GW05D-01                   | L             | 1                       |             |                       |            | X                    |   |  | Routine |  |
| Relinquished by (Signature) |      |                        |                               | Date/Time     | Received by (Signature) |             |                       |            | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630421940 |  |         |  |
| [Signature]                 |      |                        |                               | 4-23-94 1300  |                         |             |                       |            |                      |   |  |         |  |
| Relinquished by (Signature) |      |                        |                               | Date/Time     | Received by (Signature) |             |                       |            | Date/Time            |   |  |         |  |
| Relinquished by (Signature) |      |                        |                               | Date/Time     | Received by (Signature) |             |                       |            | Date/Time            |   |  |         |  |

CHAIN OF CUSTODY  
Original Chain of Custody goes to Laboratory

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| Proj. #                           |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |          |            |                      |   |   | Remarks |         |  |  |
|-----------------------------------|------|-----------------|-------------------------|---------------|----------------------|---|----------|------------|----------------------|---|---|---------|---------|--|--|
| Samplers (Please print)           |      |                 |                         |               |                      | EPA 601/602   | TCL SvOA | TAL Metals | TAL Dissolved Metals |   |   |         |         |  |  |
| DATE                              | Time | Comp. Grab.     | Sample Identification   |               |                      |   |          |            |                      |   |   |         |         |  |  |
| 62470-231 MCB Camotejeune - OU #7 |      |                 |                         | L             | 6                    | X   | X        | X          |                      |   |   |         | Routine |  |  |
| K Tua (A)                         |      |                 |                         |               |                      | L   | 1        |            |                      |   | X |         |         |  |  |
| 4-22-94                           | 1330 | G               | 1-GW01-01               |               |                      | L   | 6        | X          | X                    | X |   |         |         |  |  |
| 4-22-94                           | 1330 | G               | 1-GW01D-01              |               |                      | L   | 1        |            |                      |   | X |         |         |  |  |
| 4-22-94                           | 1430 | G               | 1-GW02-01               |               |                      | L   | 6        | X          | X                    | X |   |         |         |  |  |
| 4-22-94                           | 1430 | G               | 1-GW02D-01              |               |                      | L   | 1        |            |                      |   | X |         |         |  |  |
| 4-22-94                           | 1900 | G               | 1-GWER-01               |               |                      | L   | 4        | X          | X                    | X |   |         |         |  |  |
| 4-22-94                           | 1900 | G               | 1-GWERD-01              |               |                      | L   | 1        |            |                      |   | X |         |         |  |  |
| 4-22-94                           | 1800 | G               | 1-GW03-01               |               |                      | L   | 3        | X          |                      |   |   |         |         |  |  |
| 4-22-94                           | 1930 | G               | 1-TB-15                 |               |                      | L   | 2        | X          |                      |   |   |         |         |  |  |
| 4-23-94                           | 0900 | G               | 1-GW06-01               |               |                      | L   | 3        | X          |                      |   |   |         |         |  |  |
| 4-23-94                           | 1000 | G               | 1-GW15-01               |               |                      | L   | 3        | X          |                      |   |   |         |         |  |  |
| 4-23-94                           | 1000 | G               | 1-GW15-01D              |               |                      | L   | 2        | X          |                      |   |   |         |         |  |  |
| 4-23-94                           | 1145 | G               | 1-GW13-01               |               |                      | L   | 3        | X          |                      |   |   |         |         |  |  |
| 4-23-94                           | 0800 | G               | 28-GW05-01              | L             | 3                    | X   |          |            |                      |   |   |         | Routine |  |  |
| Relinquished by (Signature)       |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turnaround<br><br>- Airbill # 1630421940 |          |            |                      |   |   |         |         |  |  |
| 7h J. Tahib                       |      | 4-23-94<br>1300 |                         |               |                      |   |          |            |                      |   |   |         |         |  |  |
|                                   |      |                 |                         |               |                      |   |          |            |                      |   |   |         |         |  |  |
| Relinquished by (Signature)       |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |          |            |                      |   |   |         |         |  |  |
|                                   |      |                 |                         |               |                      |   |          |            |                      |   |   |         |         |  |  |
| Relinquished by (Signature)       |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |          |            |                      |   |   |         |         |  |  |
|                                   |      |                 |                         |               |                      |   |          |            |                      |   |   |         |         |  |  |

**CHAIN OF CUSTODY**    COC # 01019/28030    0198  
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| Proj. #                     |      | Project name             |              | Sample Matrix           | Number of containers | Analyses    |                       |  |  |  |  |  |  | Remarks |  |  |         |         |
|-----------------------------|------|--------------------------|--------------|-------------------------|----------------------|-------------|-----------------------|--|--|--|--|--|--|---------|--|--|---------|---------|
| 62470-231                   |      | MCB Camp Lejeune - OU #7 |              |                         |                      | EPA 601/602 |                       |  |  |  |  |  |  |         |  |  |         |         |
| Samplers (Please print)     |      |                          |              | DATE                    | Time                 | Comp. Grab. | Sample Identification |  |  |  |  |  |  |         |  |  |         |         |
| K Twa / M Taube             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
| 4-24<br>94                  | 1740 | G                        | 1-GW16-01    | L                       | 3                    | X           |                       |  |  |  |  |  |  |         |  |  | Routine |         |
| 4-25<br>94                  | 1400 | G                        | 1-TB-16      | L                       | 2                    | X           |                       |  |  |  |  |  |  |         |  |  |         | Routine |
| 4-25<br>94                  | 1100 | G                        | 28-GW09DW-01 | L                       | 3                    | X           |                       |  |  |  |  |  |  |         |  |  |         | Routine |
| 4-25<br>94                  | 1240 | G                        | 28-GW01-01   | L                       | 3                    | X           |                       |  |  |  |  |  |  |         |  |  |         | Routine |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
|                             |      |                          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
| Relinquished by (Signature) |      | Date/Time                |              | Received by (Signature) |                      | Date/Time   |                       | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422253 |  |  |  |  |  |         |  |  |         |         |
| <i>[Signature]</i>          |      | 4-25-94<br>1600          |              |                         |                      |             |                       |  |  |  |  |  |  |         |  |  |         |         |
| Relinquished by (Signature) |      | Date/Time                |              | Received by (Signature) |                      | Date/Time   |                       |  |  |  |  |  |  |         |  |  |         |         |
| Relinquished by (Signature) |      | Date/Time                |              | Received by (Signature) |                      | Date/Time   |                       |  |  |  |  |  |  |         |  |  |         |         |

**CHAIN OF CUSTODY** COC# 01023/28031  
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| Proj. #                 |    | Project name |   | Sample Matrix | Number of containers | Analyses |      |             |                       |          |              |            |               | Remarks |          |          |                                  |
|-------------------------|----|--------------|---|---------------|----------------------|----------|------|-------------|-----------------------|----------|--------------|------------|---------------|---------|----------|----------|----------------------------------|
| Samplers (Please print) |    |              |   |               |                      | DATE     | Time | Comp. Grab. | Sample Identification | TCL SVOA | TCL Pest/PCB | TAL Metals | TAL Dissolved |         | TCL Pest | TKN, COD | CL, F, BOD, TDS, TSS, Alkalinity |
| KTua                    |    |              |   |               |                      |          |      |             |                       |          |              |            |               |         |          |          |                                  |
| 4-24                    | 94 | 1740         | G | 1-GW16-01     | L                    | 4        | X    | X           | X                     |          |              |            |               |         | Routine  |          |                                  |
| 4-24                    | 94 | 1740         | G | 1-GW16D-01    | L                    | 1        |      |             |                       | X        |              |            |               |         | Routine  |          |                                  |
| 4-25                    | 94 | 1100         | G | 28-GW09DW-01  | L                    | 4        | X    |             | X                     |          | X            |            |               |         | Routine  |          |                                  |
| 4-25                    | 94 | 1100         | G | 28-GW09DWD-01 | L                    | 1        |      |             |                       | X        |              |            |               |         | Routine  |          |                                  |
| 4-25                    | 94 | 1240         | G | 28-GW01-01    | L                    | 6        | X    |             | X                     |          | X            | X          | X             |         | Routine  |          |                                  |
| 4-25                    | 94 | 1240         | G | 28-GW01D-01   | L                    | 1        |      |             |                       | X        |              |            |               |         | Routine  |          |                                  |

|   |                              |                         |           |  |
|---|------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>J. J. [Signature]</i> | Date/Time<br>4-25-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422253 |
| Relinquished by (Signature)                             | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                             | Date/Time                    | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY**    COC # 01019/28030    0198  
 Original Chain of Custody goes to Laboratory

| Proj. #                               |      | Project name |                       | Sample Matrix | Number of containers | Analyses    |  |  |  |  |  |  |  |  |  | Remarks |         |
|---------------------------------------|------|--------------|-----------------------|---------------|----------------------|-------------|--|--|--|--|--|--|--|--|--|---------|---------|
| Samplers (Please print)               |      |              |                       |               |                      | /           |  |  |  |  |  |  |  |  |  |         |         |
| DATE                                  | Time | Comp. Grab.  | Sample Identification |               |                      | EPA 601/602 |  |  |  |  |  |  |  |  |  |         |         |
| 62470-221    MCB Camp Lejeune - OU #7 |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |
| KTua / M Taube                        |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |
| 4-24<br>94                            | 1740 | G            | 1-GW16-01             | L             | 3                    | X           |  |  |  |  |  |  |  |  |  |         | Routine |
| 4-25<br>94                            | 1400 | G            | 1-TB-16               | L             | 2                    | X           |  |  |  |  |  |  |  |  |  |         | Routine |
|                                       |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |
| 4-25<br>94                            | 1100 | G            | 28-GW09DW-01          | L             | 3                    | X           |  |  |  |  |  |  |  |  |  |         | Routine |
| 4-25<br>94                            | 1240 | G            | 28-GW01-01            | L             | 3                    | X           |  |  |  |  |  |  |  |  |  |         | Routine |
|                                       |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |
|                                       |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |
|                                       |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |
|                                       |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |
|                                       |      |              |                       |               |                      |             |  |  |  |  |  |  |  |  |  |         |         |

|   |                               |                         |           |  |
|---|-------------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Jh J. [Signature]</i> | Date/Time<br>4-25-94<br>1600h | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422253 |
| Relinquished by (Signature)                             | Date/Time                     | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                             | Date/Time                     | Received by (Signature) | Date/Time |  |



**CHAIN OF CUSTODY** Loc# 28031  
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| Proj. #                              |      | Project name    |             | Sample Matrix           | Number of containers | Analyses  |      |   |                       |             |          |          |         | Remarks |            |                      |
|--------------------------------------|------|-----------------|-------------|-------------------------|----------------------|-----------|------|---|-----------------------|-------------|----------|----------|---------|---------|------------|----------------------|
| 62470-231 MCB Camp Lejeune - OIA # 7 |      |                 |             |                         |                      | DATE      | Time | Comp. Grab.   | Sample Identification | EPA 601/602 | TCL SVOA | TCL Pest | TCL PCB |         | TAL Metals | TAL Dissolved Metals |
| Samplers (Please print)              |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
| 4-25<br>94                           | 1350 | G               | 28-GWER-02  | L                       | 5                    | X         | X    | X   |                       |             | X        |          |         | Routine |            |                      |
| 4-25<br>94                           | 1350 | G               | 28-GWERD-02 | L                       | 1                    |           |      |   |                       |             |          | X        |         |         |            |                      |
| 4-26<br>94                           | 1230 | G               | 231-FB-03   | L                       | 5                    | X         | X    | X   | X                     |             | X        |          |         |         |            |                      |
| 4-26<br>94                           | 1230 | G               | 231-FBD-03  | L                       | 1                    |           |      |   |                       |             |          | X        |         |         |            |                      |
| 4-26<br>94                           | 1400 | G               | 28-TB-20    | L                       | 2                    | X         |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
|                                      |      |                 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
| Relinquished by (Signature)          |      | Date/Time       |             | Received by (Signature) |                      | Date/Time |      | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422275 |                       |             |          |          |         |         |            |                      |
| <i>The J. J. J. J.</i>               |      | 4-26-94<br>1600 |             |                         |                      |           |      |   |                       |             |          |          |         |         |            |                      |
| Relinquished by (Signature)          |      | Date/Time       |             | Received by (Signature) |                      | Date/Time |      |   |                       |             |          |          |         |         |            |                      |
| Relinquished by (Signature)          |      | Date/Time       |             | Received by (Signature) |                      | Date/Time |      |   |                       |             |          |          |         |         |            |                      |

CHAIN OF CUSTODY COC# 01025/28032  
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| Proj. #                     |      | Project name |                       | Sample Matrix  | Number of containers    | Analyses |          |              |   |     |           |      |                 | Remarks |
|-----------------------------|------|--------------|-----------------------|----------------|-------------------------|----------|----------|--------------|---|-----|-----------|------|-----------------|---------|
| Samplers (Please print)     |      |              |                       |                |                         | TCL VOA  | TCL SVOA | TCL Pest/PCB | TAL Metals  | TPH | Full TCLP | RCRA | Characteristics |         |
| DATE                        | Time | Comp. Grab.  | Sample Identification |                |                         |          |          |              |   |     |           |      |                 |         |
| MTaube / T Trebilcock       |      |              |                       |                |                         |          |          |              |   |     |           |      |                 |         |
| 5-5-94                      | 1420 | G            | 1-GW17DW-00           | S              | 3                       | X        | X        | X            | X   | X   |           |      | Routine         |         |
| 5-5-94                      | 1544 | G            | 1-GW17DW-05           | S              | 3                       | X        | X        | X            | X   | X   |           |      | ↓               |         |
| 5-6-94                      | 1500 | G            | 1-TB-18               | L              | 2                       | X        |          |              |   |     |           |      | ↓               |         |
| 5-6-94                      | 1340 | C            | 28-RB01               | S              | 3                       |          |          |              |   | X   | X         |      | 7-day           |         |
| 5-6-94                      | 1400 | C            | 28-RB02               | S              | 3                       |          |          |              |   | X   | X         |      | 7-day           |         |
| Relinquished by (Signature) |      |              |                       | Date/Time      | Received by (Signature) |          |          | Date/Time    | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422323<br>- Full TCLP = Volatiles, Semis, Pest/PCB, Herb + Metals<br>- RCRA Char. = Corrosivity, Ignitability, Reactivity |     |           |      |                 |         |
| The J. J. Stahl             |      |              |                       | 5-6-94<br>1600 |                         |          |          |              |   |     |           |      |                 |         |
| Relinquished by (Signature) |      |              |                       | Date/Time      | Received by (Signature) |          |          | Date/Time    |   |     |           |      |                 |         |
| Relinquished by (Signature) |      |              |                       | Date/Time      | Received by (Signature) |          |          | Date/Time    |   |     |           |      |                 |         |

**CHAIN OF CUSTODY** Coc# 28033  
Original Chain of Custody goes to Laboratory

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| Proj. #<br>62470-231                                 |      | Project name<br>VICB Camp Lejeune -OU#7 |                       | Sample Matrix           | Number of containers | Analyses    |           |          |   |                  |                      |           |                             | Remarks |
|--|------|---|-----------------------|-------------------------|----------------------|-------------|-----------|----------|---|------------------|----------------------|-----------|-----------------------------|---------|
| Samplers (Please print)<br>M Taube                   |      |   |                       |                         |                      | EPA 601/602 | TCL 500A  | TCL Pest | TCL PCB   | TAL Total Metals | TAL Dissolved Metals | TAN & COD | Alkalinity, Cl, F, BOD, TDS |         |
| DATE   | Time | Comp. Grab.                             | Sample Identification |                         |                      |             |           |          |   |                  |                      |           |                             |         |
| 5-7<br>94  | 0930 | G                                       | 28-GW01DW-01          | L                       | 9                    | X           | X         | X        |   | X                |                      | X         | X                           | Routine |
|  | 0930 | G                                       | 28-GW01DWD-01         | L                       | 1                    |             |           |          |   |                  | X                    |           |                             |         |
|  | 0930 | G                                       | 28-GW01DW-01D         | L                       | 7                    | X           | X         | X        |   | X                |                      | X         | X                           |         |
|  | 0930 | G                                       | 28-GW01DWD-01D        | L                       | 1                    |             |           |          |   |                  | X                    |           |                             |         |
|  | 1245 | G                                       | 28-TB-21              | L                       | 2                    | X           |           |          |   |                  |                      |           |                             |         |
| ↓  | 1145 | G                                       | 231-FB-04             | L                       | 6                    | X           | X         | X        | X   | X                |                      |           |                             | ↓       |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
|  |      |   |                       |                         |                      |             |           |          |   |                  |                      |           |                             |         |
| Relinquished by (Signature)<br><i>Th. F. T. Hill</i> |      | Date/Time<br>5-7-94<br>1400             |                       | Received by (Signature) |                      |             | Date/Time |          | Remarks:<br>- See Remarks for sample turnaround<br>- Airbill # 1630422290 |                  |                      |           |                             |         |
| Relinquished by (Signature)                          |      | Date/Time                               |                       | Received by (Signature) |                      |             | Date/Time |          |   |                  |                      |           |                             |         |
| Relinquished by (Signature)                          |      | Date/Time                               |                       | Received by (Signature) |                      |             | Date/Time |          |   |                  |                      |           |                             |         |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

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| Proj. #                 |      | Project name |              | Sample Matrix | Number of containers | Analyses |      |             |                       |             |          |          |         |               |                      | Remarks |                     |           |
|-------------------------|------|--------------|--------------|---------------|----------------------|----------|------|-------------|-----------------------|-------------|----------|----------|---------|---------------|----------------------|---------|---------------------|-----------|
| Samplers (Please print) |      |              |              |               |                      | DATE     | Time | Comp. Grab. | Sample Identification | EPA 601/602 | TCL SVOA | TCL Pest | TCL PCB | TAL Metals    | TAL Dissolved Metals |         | RCRA Characteristic | Full TCLP |
| M Taube / T Trebilcock  |      |              |              |               |                      |          |      |             |                       |             |          |          |         |               |                      |         |                     |           |
| 5-8<br>94               | 0930 | C            | 1-RB01       | S             | 3                    |          |      |             |                       |             |          |          |         | X             | X                    | 7-day   |                     |           |
| 5-8<br>94               | 1830 | C            | 1-RB02       | S             | 3                    |          |      |             |                       |             |          |          |         | X             | X                    | 7-day   |                     |           |
| 5-8<br>94               | 2045 | G            | 1-TB-19      | L             | 2                    | X        |      |             |                       |             |          |          |         |               |                      | Routine |                     |           |
| 5-9<br>94               | 1000 | G            | 1-GW16DW-01  | L             | 6                    | X        | X    |             |                       |             |          | X        |         |               |                      | Routine |                     |           |
| 5-9<br>94               | 1000 | G            | 1-GW16DWD-01 | L             | 1                    |          |      |             |                       |             |          |          | X       |               |                      | Routine |                     |           |
| 5-8<br>94               | 1645 | G            | 28-GW07DW-01 | L             | 3                    | X        |      |             |                       |             |          |          |         |               |                      | Routine |                     |           |
| 5-8<br>94               | 1800 | G            | 28-TKNR      | L             | 3                    | X        |      |             |                       |             |          |          |         |               |                      | Routine |                     |           |
| 5-8<br>94               | 1950 | G            | 28-GWER-03   | L             | <del>5</del> 2       | X        | X    | X           | X                     | X           | X        | X        | X       | TFT<br>5-8-94 |                      | Routine |                     |           |
| 5-8<br>94               | 1950 | G            | 28-GWERD-03  | L             | 1                    |          |      |             |                       |             |          |          | X       |               |                      | Routine |                     |           |

|   |                             |                         |           |  |
|---|-----------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>[Signature]</i> | Date/Time<br>5-9-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630422076<br>- RCRA = Ignitability, Corrosivity, Reactivity<br>- Full TCLP = Herbicide, Pest, PCB, Metals<br>SVOAs & VOAs |
| Relinquished by (Signature)                       | Date/Time                   | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                       | Date/Time                   | Received by (Signature) | Date/Time |  |

CHAIN OF CUSTODY Coc # 28035  
Original Chain of Custody goes to Laboratory

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| Proj. #                 |      | Project name |                       | Sample Matrix | Number of containers | Analyses |          |         |            |                      |  | Remarks |
|-------------------------|------|--------------|-----------------------|---------------|----------------------|----------|----------|---------|------------|----------------------|--|---------|
| Samplers (Please print) |      |              |                       |               |                      | TCL SVOC | TCL Pest | TCL PCB | TAL Metals | TAL Dissolved Metals |  |         |
| DATE                    | Time | Comp. Grab.  | Sample Identification |               |                      |          |          |         |            |                      |  |         |
| M Taube / J Trebilcock  |      |              |                       |               |                      |          |          |         |            |                      |  |         |
| 5-8-94                  | 1645 | G            | 28-GW07DW-01          | L             | 4                    | X        | X        |         | X          |                      |  | Routine |
| 5-8-94                  | 1645 | G            | 28-GW07DWID-01        | L             | 1                    |          |          |         |            | X                    |  | Routine |
| 5-8-94                  | 1645 | G            | 28-TKNR               | L             | 4                    | X        | X        | X       | X          | X                    |  | 7-day   |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |
|                         |      |              |                       |               |                      |          |          |         |            |                      |  |         |

|  |                             |                         |           |   |
|--|-----------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>T. F. Trebilcock</i> | Date/Time<br>5-9-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn<br>- Airbill # 1630422076 |
| Relinquished by (Signature)                            | Date/Time                   | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                            | Date/Time                   | Received by (Signature) | Date/Time |   |

**CHAIN OF CUSTODY** C0C# 01028  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name    |                         | Sample Matrix | Number of containers | Analyses  |     |     |      |     | Remarks |              |     |                  |
|-----------------------------|------|-----------------|-------------------------|---------------|----------------------|---|-----|-----|------|-----|---------|--------------|-----|------------------|
| Samplers (Please print)     |      |                 |                         |               |                      | TCL   | VOA | TCL | SVOA | TAL |         | Total Metals | TAL | Dissolved Metals |
| DATE                        | Time | Comp. Grab.     | Sample Identification   |               |                      |   |     |     |      |     |         |              |     |                  |
| T Trebilcock                |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
| 5-25<br>94                  | 1945 | G               | 1-GW17DW-01             | L             | 6                    | X   | X   | X   |      |     |         | 14-day       |     |                  |
| 5-25<br>94                  | 1945 | G               | 1-GW17DWD-01            | L             | 1                    |   |     |     |      | X   |         | 14-day       |     |                  |
| 5-26<br>94                  | 0930 | G               | 1-TB-21                 | L             | 2                    | X   |     |     |      |     |         | 14-day       |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
|                             |      |                 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for Sample turnaround<br>- Airbill # 1630422356 |     |     |      |     |         |              |     |                  |
| Th. F. Trebilcock           |      | 5-26-94<br>1600 |                         |               |                      |   |     |     |      |     |         |              |     |                  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |         |              |     |                  |
| Relinquished by (Signature) |      | Date/Time       | Received by (Signature) |               | Date/Time            |   |     |     |      |     |         |              |     |                  |

**SITE 30**

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**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

| Proj. #                      |      | Project name    |                         | Sample Matrix | Number of containers | Analyses   |     |  |  |  |  | Remarks      |
|------------------------------|------|-----------------|-------------------------|---------------|----------------------|--|-----|--|--|--|--|--------------|
| Samplers (Please print)      |      |                 |                         |               |                      | TCL-VOA  | TPH |  |  |  |  |              |
| DATE                         | Time | Comp. Grab.     | Sample Identification   |               |                      |  |     |  |  |  |  |              |
| 62470-231 62470-231 site 30  |      |                 |                         |               |                      |  |     |  |  |  |  |              |
| JOHN ZIMMERMAN / Bill Pelkey |      |                 |                         |               |                      |  |     |  |  |  |  |              |
| 3/22/94                      | 1605 | G               | 30-SB01-00              | S             | 1                    | X  |     |  |  |  |  | Routine      |
| 3/22/94                      | 1630 | G               | 30-SB01-04              | S             | 1                    | X  | X   |  |  |  |  | 7 Day Turn   |
| 3/22/94                      | 1652 | G               | 30-SB05-00              | S             | 2                    | X  |     |  |  |  |  | Routine *    |
| 3/22/94                      | 1652 | G               | 20-SB05-CXD             | S             | 1                    | X  |     |  |  |  |  | Routine      |
| 3/22/94                      | 1705 | G               | 20-SB05-03              | S             | 1                    | X  | X   |  |  |  |  | 7 Day Turn * |
| 3/22/94                      | 1705 | G               | 30-SB05-03D             | S             | 1                    | X  | X   |  |  |  |  | 7 Day Turn   |
| 3/22/94                      | 1727 | G               | 20-SB07-00              | S             | 1                    | X  |     |  |  |  |  | Routine      |
| 3/22/94                      | 1734 | G               | 30-SB07-03              | S             | 1                    | X  | X   |  |  |  |  | 7 Day Turn   |
| 3/22/94                      | 1752 | G               | 30-SB10-00              | S             | 1                    | X  |     |  |  |  |  | Routine      |
| 3/22/94                      | 1752 | G               | 30-SB10-000             | S             | 1                    | X  |     |  |  |  |  | Routine      |
| 3/22/94                      | 1752 | G               | 20-SB10-03              | S             | 1                    | X  | X   |  |  |  |  | 7 Day Turn   |
| 3/22/94                      | 1802 | G               | 20-SB10-030             | S             | 1                    | X  | X   |  |  |  |  | 7 Day Turn   |
| 3/22/94                      | 1810 | G               | 30-SB03-00              | S             | 1                    | X  |     |  |  |  |  | Routine      |
| 3/22/94                      | 1810 | G               | 20-SB03-03              | S             | 1                    | X  | X   |  |  |  |  | 7 Day Turn   |
| Relinquished by (Signature)  |      | Date/Time       | Received by (Signature) |               | Date/Time            | Remarks: * NOISE SAMPLES SENT TO MSL/MSL<br>- Airbill # 1630421995<br>- See Remarks for sample turn around |     |  |  |  |  |              |
| John J. Ziliberti            |      | 3-23-94<br>1500 |                         |               |                      |  |     |  |  |  |  |              |
| Relinquished by (Signature)  |      | Date/Time       | Received by (Signature) |               | Date/Time            |  |     |  |  |  |  |              |
| Relinquished by (Signature)  |      | Date/Time       | Received by (Signature) |               | Date/Time            |  |     |  |  |  |  |              |



**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC # 30001

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| Proj. #                     |      | Project name               |                         | Sample Matrix         | Number of containers | Analyses   |     |          |            |  | Remarks |         |
|-----------------------------|------|----------------------------|-------------------------|-----------------------|----------------------|--|-----|----------|------------|--|---------|---------|
| 62470-231                   |      | MCB Camp Lejeune - Site 30 |                         |                       |                      | TCL VOA  | TPH | TCL SVOA | TAL Metals |  |         |         |
| Samplers (Please print)     |      | Comp. Grab.                |                         | Sample Identification |                      |  |     |          |            |  |         |         |
| John / Zimmerman Bill Pelky |      | Ken Tuer, Marty Taube      |                         |                       |                      |  |     |          |            |  |         |         |
| DATE                        | Time | Comp. Grab.                | Sample Identification   |                       |                      |  |     |          |            |  |         |         |
| 3/22/94                     | 1836 | G                          | 30-SB11-00              | S                     | 1                    | X  |     |          |            |  |         | Routine |
| 3/22/94                     | 1844 | G                          | 30-SB11-03              | S                     | 1                    | X  |     |          |            |  |         | Routine |
| 3/23/94                     | 0921 | G                          | 30-SB08-00              | S                     | 1                    | X  |     |          |            |  |         | Routine |
| 3/23/94                     | 0926 | G                          | 30-SB08-02              | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 0947 | G                          | 30-SB04-00              | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 0958 | G                          | 30-SB04-03              | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1010 | G                          | 30-BB-SB12-00           | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1027 | G                          | 30-BB-SB12-03           | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1039 | G                          | 30-SB02-00              | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1045 | G                          | 30-SB02-03              | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1057 | G                          | 30-BB-SB13-00           | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1100 | G                          | 30-BB-SB13-01           | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1106 | G                          | 30-SB06-00              | S                     | 1                    | X  |     |          |            |  |         | "       |
| 3/23/94                     | 1116 | G                          | 30-SB06-03              | S                     | 1                    | X  |     |          |            |  |         | "       |
| Relinquished by (Signature) |      | Date/Time                  | Received by (Signature) |                       | Date/Time            | Remarks: - See Remarks for Sample turnaround<br>- Airbill # 1630421995 |     |          |            |  |         |         |
| <i>Th. J. Z...</i>          |      | 3-23-94<br>1500            |                         |                       |                      |  |     |          |            |  |         |         |
| Relinquished by (Signature) |      | Date/Time                  | Received by (Signature) |                       | Date/Time            |  |     |          |            |  |         |         |
| Relinquished by (Signature) |      | Date/Time                  | Received by (Signature) |                       | Date/Time            |  |     |          |            |  |         |         |

# CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

| Proj. #   |      | Project name    |               | Sample Matrix           | Number of containers | Analyses  |      |  |                       |         |     |          |            | Remarks |  |         |  |  |
|---|------|-----------------|---------------|-------------------------|----------------------|-----------|------|--|-----------------------|---------|-----|----------|------------|---------|--|---------|--|--|
| 62470-231 MCB Camp Lejeune - Site 30                                  |      |                 |               |                         |                      | DATE      | Time | Comp. Grab.  | Sample Identification | TCL VOA | TPH | TCL SVOA | TAL Metals |         |  |         |  |  |
| Samplers (Please print)<br>J Zimmerman / W Pelkey / M Foubert / K Twa |      |                 |               |                         |                      |           |      |  |                       |         |     |          |            |         |  |         |  |  |
| 3/23/94   | 1125 | G               | 30-BB-SB14-00 | S                       | 1                    | X         |      |  |                       |         |     |          |            |         |  | Routine |  |  |
| 3/23/94   | 1130 | G               | 30-BB-SB14-01 | S                       | 1                    | X         |      |  |                       |         |     |          |            |         |  | "       |  |  |
| 3/23/94   | 1143 | G               | 30-SB09-00    | S                       | 1                    | X         |      |  |                       |         |     |          |            |         |  | "       |  |  |
| 3/23/94   | 1150 | G               | 30-SB09-02    | S                       | 1                    | X         |      |  |                       |         |     |          |            |         |  |         |  |  |
| 3/23/94   | 0800 | G               | 30-SIER-02    | L                       | 2                    | X         |      |  |                       |         |     |          |            |         |  | * HOLD  |  |  |
| 3/23/94   | 1400 | G               | 30-TB-01      | L                       | 2                    | X         |      |  |                       |         |     |          |            |         |  | Routine |  |  |
| 3/22/94   | 0945 | G               | 30-SIER-01    | L                       | 7                    | X         | X    | X  | X                     |         |     |          |            |         |  | Routine |  |  |
| Relinquished by (Signature)   |      | Date/Time       |               | Received by (Signature) |                      | Date/Time |      | Remarks: - See Remarks for sample turn<br>- Airbill # 1630421995 |                       |         |     |          |            |         |  |         |  |  |
| <i>Th Z. Talib</i>  |      | 3-23-94<br>1500 |               |                         |                      |           |      |  |                       |         |     |          |            |         |  |         |  |  |
| Relinquished by (Signature)   |      | Date/Time       |               | Received by (Signature) |                      | Date/Time |      |  |                       |         |     |          |            |         |  |         |  |  |
| Relinquished by (Signature)   |      | Date/Time       |               | Received by (Signature) |                      | Date/Time |      |  |                       |         |     |          |            |         |  |         |  |  |

# CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

| Proj. #   |      | Project name                 |                         | Sample Matrix | Number of containers | Analyses   |      |             |                       |          |     |            | Remarks |  |            |  |  |
|---|------|------------------------------|-------------------------|---------------|----------------------|--|------|-------------|-----------------------|----------|-----|------------|---------|--|------------|--|--|
| 62470-231 62470-231 SITE 20                           |      |                              |                         |               |                      | DATE   | Time | Comp. Grab. | Sample Identification | TCL-SUBS | TPH | TRV-METALS |         |  |            |  |  |
| Samplers (Please print)<br>JOHN ZIMMERMAN/BILL PELKEY |      |                              |                         |               |                      |  |      |             |                       |          |     |            |         |  |            |  |  |
| 3/22/94   | 1605 | G                            | 30-SB01-00              | S             | 2                    | X  |      | X           |                       |          |     |            |         |  | Routine    |  |  |
| 3/22/94   | 1630 | G                            | 30-SB01-04              | S             | 2                    | X  | X    | X           |                       |          |     |            |         |  | 7 Day Turn |  |  |
| 3/22/94   | 1652 | G                            | 30-SB05-00              | S             | 4                    | X  |      | X           |                       |          |     |            |         |  | Routine    |  |  |
| 3/22/94   | 1652 | G                            | 30-SB05-000             | S             | 2                    | X  |      | X           |                       |          |     |            |         |  | Routine    |  |  |
| 3/22/94   | 1705 | G                            | 30-SB05-03              | S             | 4                    | X  | X    | X           |                       |          |     |            |         |  | 7 Day Turn |  |  |
| 3/22/94   | 1705 | G                            | 30-SB05-030             | S             | 2                    | X  | X    | X           |                       |          |     |            |         |  | 7 Day Turn |  |  |
| 3/22/94   | 1727 | G                            | 30-SB07-00              | S             | 2                    | X  |      | X           |                       |          |     |            |         |  | Routine    |  |  |
| 3/22/94   | 1724 | G                            | 30-SB07-03              | S             | 2                    | X  | X    | X           |                       |          |     |            |         |  | 7 Day Turn |  |  |
| 3/22/94   | 1752 | G                            | 30-SB10-00              | S             | 2                    | X  |      | X           |                       |          |     |            |         |  | Routine    |  |  |
| 3/22/94   | 1752 | G                            | 30-SB10-000             | S             | 2                    | X  |      | X           |                       |          |     |            |         |  | Routine    |  |  |
| 3/22/94   | 1758 | G                            | 30-SB10-02              | S             | 2                    | X  | X    | X           |                       |          |     |            |         |  | 7 Day Turn |  |  |
| 3/22/94   | 1758 | G                            | 30-SB10-030             | S             | 2                    | X  | X    | X           |                       |          |     |            |         |  | 7 Day Turn |  |  |
| 3/22/94   | 1758 | G                            | 30-SB02-00              | S             | 2                    | X  | X    | X           |                       |          |     |            |         |  | Routine    |  |  |
| 3/22/94   | 1820 | G                            | 30-SB02-03              | S             | 2                    | X  | X    | X           |                       |          |     |            |         |  | 7 Day Turn |  |  |
| Relinquished by (Signature)<br>Thom F. Zabihl         |      | Date/Time<br>3-23-94<br>1500 | Received by (Signature) |               | Date/Time            | Remarks: * NOTE SAMPLE CONTAINS MS/MSD.<br>- See Remarks for Sample turnaround<br>- Airbill # 1630421995 |      |             |                       |          |     |            |         |  |            |  |  |
| Relinquished by (Signature)                           |      | Date/Time                    | Received by (Signature) |               | Date/Time            |  |      |             |                       |          |     |            |         |  |            |  |  |
| Relinquished by (Signature)                           |      | Date/Time                    | Received by (Signature) |               | Date/Time            |  |      |             |                       |          |     |            |         |  |            |  |  |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

| Proj. #                             |  | Project name      |  |                         | Sample Matrix | Number of containers | Analyses |          |             |                       |          |     |            | Remarks |  |  |  |  |  |  |
|-------------------------------------|--|-------------------|--|-------------------------|---------------|----------------------|----------|----------|-------------|-----------------------|----------|-----|------------|---------|--|--|--|--|--|--|
| 62470-231                           |  | 62470-231 Site 30 |  |                         |               |                      | DATE     | Time     | Comp. Grab. | Sample Identification | TEL-SVDA | TPH | TEL-Metals |         |  |  |  |  |  |  |
| Samplers (Please print)             |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
| <i>John Zimmerman / Bill Pelkey</i> |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
|                                     |  |                   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
| Relinquished by (Signature)         |  | Date/Time         |  | Received by (Signature) |               | Date/Time            |          | Remarks: |             |                       |          |     |            |         |  |  |  |  |  |  |
| <i>Th. F. Tulikhe</i>               |  | 3-23-94<br>1500   |  |                         |               |                      |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
| Relinquished by (Signature)         |  | Date/Time         |  | Received by (Signature) |               | Date/Time            |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |
| Relinquished by (Signature)         |  | Date/Time         |  | Received by (Signature) |               | Date/Time            |          |          |             |                       |          |     |            |         |  |  |  |  |  |  |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

| Proj. #   |      | Project name     |                         | Sample Matrix                | Number of containers | Analyses   |      |     |        |  |  | Remarks * |         |  |
|---|------|------------------|-------------------------|------------------------------|----------------------|--|------|-----|--------|--|--|-----------|---------|--|
| Samplers (Please print)                             |      |                  |                         |                              |                      | TCL  | SVDA | TAL | Metals |  |  |           |         |  |
| DATE  | Time | Comp. Grab.      | Sample Identification   |                              |                      |  |      |     |        |  |  |           |         |  |
| BB <del>62-170-231</del> MCB Camp Lejeune - Site 30 |      |                  |                         | John Zimmerman / Bill Pelkey |                      |  |      |     |        |  |  |           |         |  |
| 03-23-94  | 0921 | G                | 30-SB08-00              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 0926 | G                | 30-SB08-02              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 0947 | G                | 30-SB04-00              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 0958 | G                | 30-SB04-03              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1010 | G                | 30-BB-SB12-00           | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1027 | G                | 30-BB-SB12-03           | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1039 | G                | 30-SB02-00              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1045 | G                | 30-SB02-03              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 02-23-94  | 1057 | G                | 30-BB-SB13-00           | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1100 | G                | 30-BB-SB13-01           | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1106 | G                | 30-SB06-00              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1116 | G                | 30-SB06-03              | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1125 | G                | 30-BB-SB14-00           | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| 03-23-94  | 1130 | G                | 30-BB-SB14-01           | S                            | 2                    | X  | X    |     |        |  |  |           | Routine |  |
| Relinquished by (Signature)                         |      | Date/Time        | Received by (Signature) |                              | Date/Time            | Remarks:<br>* Turn around Time<br>Fedex Airbill # 1630421995 |      |     |        |  |  |           |         |  |
| <i>[Signature]</i>                                  |      | 03-23-94<br>1500 |                         |                              |                      |  |      |     |        |  |  |           |         |  |
| Relinquished by (Signature)                         |      | Date/Time        | Received by (Signature) |                              | Date/Time            |  |      |     |        |  |  |           |         |  |
| Relinquished by (Signature)                         |      | Date/Time        | Received by (Signature) |                              | Date/Time            |  |      |     |        |  |  |           |         |  |

COC # 30003  
0137

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

| Proj. #                      |                          | Project name     |                         | Sample Matrix | Number of containers | Analyses   |      |     |        |  |  | Remarks * |
|------------------------------|--------------------------|------------------|-------------------------|---------------|----------------------|--|------|-----|--------|--|--|-----------|
| Samplers (Please print)      |                          |                  |                         |               |                      | TCL  | SVDA | TAL | Metals |  |  |           |
| DATE                         | Time                     | Comp. Grab.      | Sample Identification   |               |                      |  |      |     |        |  |  |           |
| 62470-231                    | MCB Camp Lejeune Site 30 |                  |                         |               |                      |  |      |     |        |  |  |           |
| John Zimmerman / Bill Palkey |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
| 03-23-94                     | 1143                     | 6                | 30-SB09-00              | S             | 2                    | X  | X    |     |        |  |  | Routine   |
| 03-23-94                     | 1150                     | 6                | 30-SB09-02              | S             | 2                    | X  | X    |     |        |  |  | Routine   |
| 03-23-94                     | 0800                     | 6                | 30-STER-02              | L             | 2                    | X  | X    |     |        |  |  | Hold      |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
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|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
|                              |                          |                  |                         |               |                      |  |      |     |        |  |  |           |
| Relinquished by (Signature)  |                          | Date/Time        | Received by (Signature) |               | Date/Time            | Remarks:<br>* Turn Around time<br>Fedex Airbill # 1630121995 |      |     |        |  |  |           |
| <i>Bill Palkey</i>           |                          | 03-23-94<br>1500 |                         |               |                      |  |      |     |        |  |  |           |
| Relinquished by (Signature)  |                          | Date/Time        | Received by (Signature) |               | Date/Time            |  |      |     |        |  |  |           |
| Relinquished by (Signature)  |                          | Date/Time        | Received by (Signature) |               | Date/Time            |  |      |     |        |  |  |           |

# CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

| Proj. #                           |      | Project name |               | Sample Matrix | Number of containers | Analyses |      |             |                       |             |          | MS-MSD | Remarks * |            |  |  |  |
|-----------------------------------|------|--------------|---------------|---------------|----------------------|----------|------|-------------|-----------------------|-------------|----------|--------|-----------|------------|--|--|--|
| Samplers (Please print)           |      |              |               |               |                      | DATE     | Time | Comp. Grab. | Sample Identification | TCL VOA     | TCL SVOA |        |           | TAL Metals |  |  |  |
| K. TUA / M. Taubel / A. Bernhardt |      |              |               |               |                      |          |      |             |                       |             |          |        |           |            |  |  |  |
| 03-23-94                          | 1317 | G            | 30-BB-SB15-00 | S             | 3                    | X        | X    | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1323 | G            | 30-BB-SB15-01 | S             | 3                    | X        | X    | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1450 | G            | 30-BB-SB16-00 | S             | 3                    | X        | X    | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1505 | G            | 30-BB-SB16-02 | S             | 3                    | X        | X    | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1542 | G            | 30-6W03-00    | S             | 3                    | X        | X    | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1550 | G            | 30-6W03-01    | S             | 3                    | X        | X    | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1748 | G            | 30-SW03       | L             | 2                    | X        |      | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1753 | G            | 30-SW02       | L             | 2                    | X        |      | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-23-94                          | 1805 | G            | 30-SW01       | L             | 4                    | X        |      | X           |                       | BB-03-24-94 |          | X      |           | Routine    |  |  |  |
| 03-23-94                          | 1825 | G            | 30-SW01D      | L             | 2                    | X        |      | X           |                       |             |          |        |           | Routine    |  |  |  |
| 03-24-94                          | 0930 | G            | 30-TB-02      | L             | 2                    | X        |      |             |                       |             |          |        |           | Routine    |  |  |  |
|                                   |      |              |               |               |                      |          |      |             |                       |             |          |        |           |            |  |  |  |
|                                   |      |              |               |               |                      |          |      |             |                       |             |          |        |           |            |  |  |  |

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| Relinquished by (Signature) | Date/Time        | Received by (Signature) | Date/Time | Remarks:<br><br>* Turn Around Time<br>FedEx Airbill # 1630422006 |
| <i>[Signature]</i>          | 03-24-94<br>1500 |                         |           |  |
| Relinquished by (Signature) | Date/Time        | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature) | Date/Time        | Received by (Signature) | Date/Time |  |

**CHAIN OF CUSTODY**  
Original Chain of Custody goes to Laboratory

COC# 30005

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| Proj. #   |      | Project name               |                       | Sample Matrix | Number of containers | Analyses |      |           |      |        | Grain Size | Afterburg Limits | MS/MSD  | Remarks |
|---|------|----------------------------|-----------------------|---------------|----------------------|----------|------|-----------|------|--------|------------|------------------|---------|---------|
| 62470-231   |      | MCB Camp Lejeune - Site 30 |                       |               |                      | TCL      | SVOA | Full TCLP | RCRA | Chars. |            |                  |         |         |
| DATE  | Time | Comp. Grab.                | Sample Identification |               |                      |          |      |           |      |        |            |                  |         |         |
| Samplers (Please print) A Bernhardt<br>John Zimmerman, William Belkey |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
| 3-23-94   | 1805 | G                          | 30-SW01               | L             | 2                    | X        |      |           |      |        |            | X                | Routine |         |
| 3-23-94   | 1805 | G                          | 30-SW01D              | L             | 1                    | X        |      |           |      |        |            |                  | Routine |         |
| 3-24-94   | 1120 | C                          | 30-SB17               | S             | 6                    |          |      |           | X    |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |
|   |      |                            |                       |               |                      |          |      |           |      |        |            |                  |         |         |

|   |           |                         |           |  |
|---|-----------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>[Signature]</i> | Date/Time | Received by (Signature) | Date/Time | Remarks:<br>• MS/MSD Included<br>- * Turn around time<br>Airbill # 1630422006<br>Full TCLP = Vols, SVols, Pest/PCB<br>Metals, Herb |
| Relinquished by (Signature)                       | Date/Time | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                       | Date/Time | Received by (Signature) | Date/Time |  |



# CHAIN OF CUSTODY

0146

Original Chain of Custody goes to Laboratory

COC# 30006

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| Proj. #   |                         | Project name |                       | Sample Matrix | Number of containers | Analyses   |         |          | MS/MSD         | Remarks |
|---|-------------------------|--------------|-----------------------|---------------|----------------------|------------|---------|----------|----------------|---------|
| 62470-231 MCB Camp Lejeune - Site 30              |                         |              |                       |               |                      | TAL Metals | TCL VOA | TCL SVOA |                |         |
| Samplers (Please print)<br>A Bernhardt / M Muslin |                         |              |                       |               |                      |            |         |          |                |         |
| DATE  | Time                    | Comp. Grab.  | Sample Identification |               |                      |            |         |          |                |         |
| 03-24<br>94                                       | 1625                    | G            | 30-SD03-612           | S             | 3                    | X          | X       | X        |                | Routine |
| 03-24<br>94                                       | 1635                    | G            | 30-SD03-06            | S             | 3                    | X          | X       | X        |                |         |
| 03-24<br>94                                       | 1725                    | G            | 30-SD02-06            | S             | 3                    | X          | X       | X        |                |         |
| 03-24<br>94                                       | 1725                    | G            | 30-SD02-612           | S             | 3                    | X          | X       | X        |                |         |
| 03-24<br>94                                       | 1830                    | G            | 30-SDER-01            | L             | 4/5                  | X          | X       | X        | TFT<br>3-25-94 |         |
| 3-25<br>94  | 1210                    | G            | 30-SD01-612           | S             | 3                    | X          | X       | X        |                |         |
| 3-25<br>94  | 1212                    | G            | 30-SD01-06            | S             | 6                    | X          | X       | X        | *              |         |
| 3-25<br>94  | <del>1212</del><br>1212 | G            | 30-SD01-06D           | S             | 3                    | X          | X       | X        |                |         |
| 3-25<br>94  | 1300                    | G            | 30-TB-03              | L             | 2                    |            | X       |          |                |         |
| 3-25<br>94  | 1440                    | G            | 30-SDER-02            | L             | 5                    | X          | X       | X        |                |         |
|   |                         |              |                       |               |                      |            |         |          |                |         |

|   |                              |                         |           |  |
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| Relinquished by (Signature)<br><i>Jh J. J. J.</i> | Date/Time<br>3-25-94<br>1500 | Received by (Signature) | Date/Time | Remarks: * MS/MSD<br>- See Remarks for Sample turnaround<br>Airbill # 1630422205 |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                       | Date/Time                    | Received by (Signature) | Date/Time |  |

TFT  
3-25-94

CHAIN OF CUSTODY  
Original Chain of Custody goes to Laboratory

COC # 300067

TFT 3-30-94

| Proj. #<br>62470-231                                |                         | Project name<br>MCB Camp Lejeune - Site 30 |                         | Sample Matrix | Number of containers | Analyses   |  |  |  |  |  |  | Remarks |         |
|---|-------------------------|--|-------------------------|---------------|----------------------|--|--|--|--|--|--|--|---------|---------|
| Samplers (Please print)<br>A Bernhardt              |                         |  |                         |               |                      | Hardness   |  |  |  |  |  |  |         |         |
| DATE  | Time                    | Comp. Grab.                                | Sample Identification   |               |                      |  |  |  |  |  |  |  |         |         |
| 3-29<br>94  | 1127<br><del>1103</del> | G  | 30-SW01                 | L             | 1                    | X  |  |  |  |  |  |  |         | Routine |
| 3-29<br>94  | 1120                    | G  | 30-SW02                 | L             | 1                    | X  |  |  |  |  |  |  |         |         |
| 3-29<br>94  | 1103                    | G  | 30-SW03                 | L             | 1                    | X  |  |  |  |  |  |  |         | ↓       |
|   |                         |  |                         |               |                      |  |  |  |  |  |  |  |         |         |
|   |                         |  |                         |               |                      |  |  |  |  |  |  |  |         |         |
|   |                         |  |                         |               |                      |  |  |  |  |  |  |  |         |         |
|   |                         |  |                         |               |                      |  |  |  |  |  |  |  |         |         |
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|   |                         |  |                         |               |                      |  |  |  |  |  |  |  |         |         |
| Relinquished by (Signature)<br><i>Th. F. Tabibi</i> |                         | Date/Time<br>3-30-94<br>1500               | Received by (Signature) |               | Date/Time            | Remarks:<br>- See Remarks for sample turn<br>- Airbill # 1630422194<br>( |  |  |  |  |  |  |         |         |
| Relinquished by (Signature)                         |                         | Date/Time                                  | Received by (Signature) |               | Date/Time            |  |  |  |  |  |  |  |         |         |
| Relinquished by (Signature)                         |                         | Date/Time                                  | Received by (Signature) |               | Date/Time            |  |  |  |  |  |  |  |         |         |

CHAIN OF CUSTODY COC 4 30008  
Original Chain of Custody goes to Laboratory

| Proj. #                 |      | Project name              |             | Sample Matrix | Number of containers | Analyses    |                       |   |   |   | * MS/MSD | Remarks       |  |  |  |  |   |         |
|-------------------------|------|---------------------------|-------------|---------------|----------------------|-------------|-----------------------|---|---|---|----------|---------------|--|--|--|--|---|---------|
| 62 470-231              |      | MCB Camp Lejeune - Site 1 |             |               |                      | TAL         | Metals                |   |   |   |          |               |  |  |  |  |   |         |
| Samplers (Please print) |      |                           |             | DATE          | Time                 | Comp. Grab. | Sample Identification | S | Z | X |          |               |  |  |  |  |   |         |
| J Zimmerman / K Tug     |      |                           |             |               |                      |             |                       |   |   |   |          |               |  |  |  |  |   |         |
| 4-8<br>94               | 1215 | G                         | 30-SB19-00  | S             | Z                    | X           |                       |   |   |   |          |               |  |  |  |  | X | Routine |
| 4-8<br>94               | 1215 | G                         | 30-SB19-00D | S             | 1                    | X           |                       |   |   |   |          | TFT<br>4-8-94 |  |  |  |  | X | Routine |
| 4-8<br>94               | 1236 | G                         | 30-SB19-02  | S             | 1                    | X           |                       |   |   |   |          |               |  |  |  |  |   |         |
| 4-8<br>94               | 1300 | G                         | 30-SB20-00  | S             | 1                    | X           |                       |   |   |   |          |               |  |  |  |  |   |         |
| 4-8<br>94               | 1306 | G                         | 30-SB20-03  | S             | 1                    | X           |                       |   |   |   |          |               |  |  |  |  |   |         |
| 4-8<br>94               | 1335 | G                         | 30-SB18-00  | S             | 1                    | X           |                       |   |   |   |          |               |  |  |  |  |   |         |
| 4-8<br>94               | 1341 | G                         | 30-SB18-03  | S             | 1                    | X           |                       |   |   |   |          |               |  |  |  |  |   |         |
| 4-8<br>94               | 1400 | G                         | 30-SIER-03  | L             | 1                    | X           |                       |   |   |   |          |               |  |  |  |  |   |         |

|   |                             |                         |           |   |
|---|-----------------------------|-------------------------|-----------|---|
| Relinquished by (Signature)<br><i>Th F. Tug</i> | Date/Time<br>4-8-94<br>1500 | Received by (Signature) | Date/Time | Remarks:<br>* MS/MSD<br>- See Remarks for sample turnaround<br>- Airbill # 1630422091 |
| Relinquished by (Signature)                     | Date/Time                   | Received by (Signature) | Date/Time |   |
| Relinquished by (Signature)                     | Date/Time                   | Received by (Signature) | Date/Time |   |

**CHAIN OF CUSTODY**      COC # 30009  
Original Chain of Custody goes to Laboratory

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| Proj. #                     |      | Project name |                                    | Sample Matrix   | Number of containers    | Analyses |      |             |                       |   |          |            |                      | Remarks |         |                                  |         |
|-----------------------------|------|--------------|------------------------------------|-----------------|-------------------------|----------|------|-------------|-----------------------|---|----------|------------|----------------------|---------|---------|----------------------------------|---------|
| Samplers (Please print)     |      |              |                                    |                 |                         | DATE     | Time | Comp. Grab. | Sample Identification | EPA 601/602   | TCL SVOA | TAL Metals | TAL Dissolved Metals |         | TKN+COD | BOD, TDS, TSS, Cl, F, Alkalinity | *MS/MSD |
| KTua (A)                    |      |              |                                    |                 |                         |          |      |             |                       |   |          |            |                      |         |         |                                  |         |
| 4-21-94                     | 1630 | G            | 30-GW03-01                         | L               | 6                       | X        | X    | X           |                       |   |          |            |                      |         | Routine |                                  |         |
| 4-21-94                     | 1630 | G            | 30-GW03D-01                        | L               | 1                       |          |      |             |                       | X   |          |            |                      |         |         |                                  |         |
| 4-21-94                     | 1845 | G            | 30-GW031-01 <sup>TFT 4-22-94</sup> | L               | 8                       | X        | X    | X           |                       |   | X        | X          |                      |         |         |                                  |         |
| 4-21-94                     | 1845 | G            | 30-GW01A-01                        | L               | 1                       |          |      |             |                       | X   |          |            |                      |         |         |                                  |         |
| 4-21-94                     | 2305 | G            | 30-TB-04                           | L               | 2                       | X        |      |             |                       |   |          |            |                      |         | ▽       |                                  |         |
| 4-21-94                     | 1745 | G            | 30-GW02-01                         | L               | 7                       | X        |      |             |                       |   |          |            | X                    |         |         |                                  |         |
| 4-21-94                     | 1745 | G            | 30-GW02-01D                        | L               | 2                       | X        |      |             |                       |   |          |            |                      |         | ▽       |                                  |         |
| Relinquished by (Signature) |      |              |                                    | Date/Time       | Received by (Signature) |          |      |             | Date/Time             | Remarks:<br>- See Remarks for sample turnaround<br>- Air bill # 1630421914<br>*MS/MSD |          |            |                      |         |         |                                  |         |
| [Signature]                 |      |              |                                    | 4-22-94<br>1600 |                         |          |      |             |                       |   |          |            |                      |         |         |                                  |         |
| Relinquished by (Signature) |      |              |                                    | Date/Time       | Received by (Signature) |          |      |             | Date/Time             |   |          |            |                      |         |         |                                  |         |
| Relinquished by (Signature) |      |              |                                    | Date/Time       | Received by (Signature) |          |      |             | Date/Time             |   |          |            |                      |         |         |                                  |         |

\* 30-GW01-01 → 10-10M9-00

**CHAIN OF CUSTODY** COC # 30010  
Original Chain of Custody goes to Laboratory

0191

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| Proj. #                         |      | Project name |                       | Sample Matrix   | Number of containers    | Analyses |           |   |                      |  | *MS/MSD | Remarks |  |
|---------------------------------|------|--------------|-----------------------|-----------------|-------------------------|----------|-----------|---|----------------------|--|---------|---------|--|
| Samplers (Please print)         |      |              |                       |                 |                         | TCL      | SVOA      | TAL Metals  | TAL Dissolved Metals |  |         |         |  |
| DATE                            | Time | Comp. Grab.  | Sample Identification |                 |                         |          |           |   |                      |  |         |         |  |
| 62470-231 MCB Camp Lejeune-04#7 |      |              |                       |                 |                         |          |           |   |                      |  |         |         |  |
| hTua A                          |      |              |                       |                 |                         |          |           |   |                      |  |         |         |  |
| 4-21<br>94                      | 1745 | G            | 30-GWOZ-01            | L               | 7                       | X        | X         |   | X                    |  |         | Routine |  |
| 4-21<br>94                      | 1745 | G            | 30-GWOZD-01           | L               | 3                       |          |           | X   | X                    |  |         | ↓       |  |
| 4-21<br>94                      | 1745 | G            | 30-GWOZ-01D           | L               | 2                       | X        | X         |   |                      |  |         |         |  |
| 4-21<br>94                      | 1745 | G            | 30-GWOZD-01D          | L               | 1                       |          |           | X   |                      |  |         |         |  |
| Relinquished by (Signature)     |      |              |                       | Date/Time       | Received by (Signature) |          | Date/Time | Remarks:<br>- Airbill # 1630421914<br>- See Remarks for sample turn around<br>- *MS/MSD |                      |  |         |         |  |
| [Signature]                     |      |              |                       | 4-22-94<br>1600 |                         |          |           |   |                      |  |         |         |  |
| Relinquished by (Signature)     |      |              |                       | Date/Time       | Received by (Signature) |          | Date/Time |   |                      |  |         |         |  |
| Relinquished by (Signature)     |      |              |                       | Date/Time       | Received by (Signature) |          | Date/Time |   |                      |  |         |         |  |

**CHAIN OF CUSTODY** COC # 01024/30011  
Original Chain of Custody goes to Laboratory

0205

Page 1 of 1

| Proj. #                 |      | Project name |                       | Sample Matrix | Number of containers | Analyses |     |     |      |     |          |     |        | Remarks |     |      |         |      |                 |
|-------------------------|------|--------------|-----------------------|---------------|----------------------|----------|-----|-----|------|-----|----------|-----|--------|---------|-----|------|---------|------|-----------------|
| Samplers (Please print) |      |              |                       |               |                      | TCL      | VOA | TCL | SVOA | TCL | Pest/PCB | TAL | Metals |         | TPH | Full | TCLP    | RCRA | Characteristics |
| DATE                    | Time | Comp. Grab.  | Sample Identification |               |                      |          |     |     |      |     |          |     |        |         |     |      |         |      |                 |
| M Taube / T Trebilcock  |      |              |                       |               |                      |          |     |     |      |     |          |     |        |         |     |      |         |      |                 |
| 5-2<br>94               | 1500 | G            | 1-GW16DW-00           | S             | 3                    | X        | X   | X   | X    | X   |          |     |        |         |     |      | Routine |      |                 |
| 5-2<br>94               | 1519 | G            | 1-GW16DW-04           | S             | 3                    | X        | X   | X   | X    | X   |          |     |        |         |     |      | ↓       |      |                 |
|                         | 1549 | G            | 1-GW16DW-07           | S             | 3                    | X        | X   | X   | X    | X   |          |     |        |         |     |      |         |      |                 |
| 5-3<br>94               | 1500 |              | 1-TB-17               | L             | 2                    | X        |     |     |      |     |          |     |        |         |     |      |         |      |                 |
| 5-3<br>94               | 0930 | C            | 30-3DRMC              | S             | 3                    |          |     |     |      |     |          | X   | X      |         |     |      | Routine |      |                 |

|  |                             |                         |           |  |
|--|-----------------------------|-------------------------|-----------|--|
| Relinquished by (Signature)<br><i>Th J. T...</i> | Date/Time<br>5-3-94<br>1600 | Received by (Signature) | Date/Time | Remarks:<br>- See Remarks for sample turn around<br>- Airbill # 1630421925 |
| Relinquished by (Signature)                      | Date/Time                   | Received by (Signature) | Date/Time |  |
| Relinquished by (Signature)                      | Date/Time                   | Received by (Signature) | Date/Time |  |

**APPENDIX D**  
**FIELD WELL DEVELOPMENT RECORDS**

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**SITE 1**



# FIELD WELL DEVELOPMENT RECORD



**Baker Environmental, Inc.**

PROJECT: SITE 1 FLDA RL/F3 MLB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 1-GW07

DATE: 4-22-94

GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA          |                             |      |           |                        |           |                     |
|---------------------------------------|---------------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME                      | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 0830                                  |                           |                             |      |           |                        |           |                     |
| 0934                                  |                           |                             |      |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)<br>16.53     | 0830                      | 2                           | 5.13 | 17.5      | 105                    | 18        | LT. BROWN silty     |
| TOTAL WELL DEPTH (TD)<br>27.73        | 0836                      | 4                           | 5.19 | 17.4      | 95                     | 18        |                     |
| WELL DIAMETER (INCHES)<br>2.0         | 0848                      | 6                           | 5.22 | 17.3      | 95                     | 17.5      |                     |
| CALCULATED WELL VOLUME<br>1.9         | 0855                      | 8                           | 5.19 | 17.6      | 100                    | 18        |                     |
| BOREHOLE DIAMETER (INCHES)            | 0904                      | 10                          | 5.20 | 17.4      | 100                    | 17.5      |                     |
| BOREHOLE VOLUME                       | 0917                      | 14                          | 5.19 | 17.7      | 100                    | 18        |                     |
| AMOUNT OF WATER ADDED DURING DRILLING | 0925                      | 16                          | 5.19 | 18.3      | 100                    | 17.5      |                     |
| DEVELOPMENT METHOD<br>SURGE Block     | 0929                      | 18                          | 5.22 | 17.2      | 100                    | 17.5      |                     |
| PUMP TYPE<br>BK Pump                  | 0934                      | 22                          | 5.18 | 17.4      | 105                    | 17.5      |                     |
| TOTAL TIME (A)<br>64 MIN              |                           |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                           |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | <b>OBSERVATIONS/NOTES</b> |                             |      |           |                        |           |                     |
| HNU/OVA READING<br>0.6                |                           |                             |      |           |                        |           |                     |

# FIELD WELL DEVELOPMENT RECORD



**Baker Environmental, Inc.**

PROJECT: SITE 1 FLDA MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 1-G208

DATE: 4-20-94

GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1503                                  | 1503               | 3                           | 5.69 | 20.7      | 150                    | 23        | LT. BROWN, SILTY    |
| 1559                                  | 1507               | 5                           | 5.54 | 21.3      | 145                    | 21        |                     |
| INITIAL WATER LEVEL (FT)<br>16.73'    | 1517               | 7                           | 5.61 | 20.1      | 130                    | 22        |                     |
| TOTAL WELL DEPTH (TD)<br>27.54'       | 1521               | 9                           | 5.42 | 16.9      | 130                    | 18        |                     |
| WELL DIAMETER (INCHES)<br>2.0         | 1526               | 14                          | 5.38 | 17.4      | 125                    | 19        |                     |
| CALCULATED WELL VOLUME<br>1.8 GALS.   | 1540               | 16                          | 5.83 | 18.0      | 145                    | 24        |                     |
| BOREHOLE DIAMETER (INCHES)            | 1555               | 22                          | 5.58 | 20.1      | 130                    | 20        |                     |
| BOREHOLE VOLUME                       | 1559               | 25                          | 5.54 | 16.5      | 128                    | 18        |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |      |           |                        |           |                     |
| DEVELOPMENT METHOD<br>SURGE Block     |                    |                             |      |           |                        |           |                     |
| PUMP TYPE<br>BK Pump                  |                    |                             |      |           |                        |           |                     |
| TOTAL TIME (A)<br>56 min              |                    |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
| HNU/OVA READING<br>0                  |                    |                             |      |           |                        |           |                     |

# FIELD WELL DEVELOPMENT RECORD

# Baker

**Baker Environmental, Inc.**

PROJECT: Site 1 FCLDA MGB CAMP LEJEUNE

CTO NO.: 62470 - 231 WELL NO.: 1-GW09

DATE: 4-20-94

GEOLOGIST/ENGINEER: Bill Peirkey

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                             |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|-----------------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY         |
| 1048                                  |                    |                             |      |           |                        |           |                             |
| 1315                                  |                    |                             |      |           |                        |           |                             |
| INITIAL WATER LEVEL (FT)              | 1048               | 4                           | 6.47 | 13.9      | 70                     | 18        | Brown Turbid                |
| 12.05                                 |                    |                             |      |           |                        |           |                             |
| TOTAL WELL DEPTH (TD)                 | 1051               | 8                           | 6.56 | 15.8      | 110                    | 17        |                             |
| 23.82                                 |                    |                             |      |           |                        |           |                             |
| WELL DIAMETER (INCHES)                | 1057               | 10                          | 7.29 | 16.5      | 190                    | 17.5      |                             |
| 2.0                                   |                    |                             |      |           |                        |           |                             |
| CALCULATED WELL VOLUME                | 1101               | 15                          | 7.41 | 16.1      | 205                    | 17        |                             |
| 2.0 GAL.                              |                    |                             |      |           |                        |           |                             |
| BOREHOLE DIAMETER (INCHES)            | 1105               | 20                          | 7.50 | 15.7      | 190                    | 17.5      |                             |
|                                       | 1110               | 24                          | 7.57 | 17.1      | 200                    | 18        |                             |
| BOREHOLE VOLUME                       | 1255               | 26                          | 7.47 | 17.8      | 190                    | 20        |                             |
|                                       | 1302               | 30                          | 7.36 | 14.4      | 220                    | 18        |                             |
| AMOUNT OF WATER ADDED DURING DRILLING | 1306               | 36                          | 7.67 | 13.8      | 225                    | 19        |                             |
|                                       | 1310               | 40                          | 7.65 | 14.4      | 235                    | 19        |                             |
| DEVELOPMENT METHOD                    | 1315               | 42                          | 7.67 | 14.8      | 210                    | 19        | WATER REMAINS BROWN, TURBID |
| SURGE Block                           |                    |                             |      |           |                        |           |                             |
| PUMP TYPE                             |                    |                             |      |           |                        |           |                             |
| BK Pump                               |                    |                             |      |           |                        |           |                             |
| TOTAL TIME (A)                        |                    |                             |      |           |                        |           |                             |
| 147 min                               |                    |                             |      |           |                        |           |                             |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |      |           |                        |           |                             |
|                                       |                    |                             |      |           |                        |           |                             |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |      |           |                        |           |                             |
|                                       |                    |                             |      |           |                        |           |                             |
|                                       |                    |                             |      |           |                        |           |                             |
| HNU/OVA READING                       |                    |                             |      |           |                        |           |                             |

**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: SITE 1 FCLDA RI/PS CAMP LEJEUNE MGB.CTO NO.: 62470-231WELL NO.: 1 GW 10DATE: 4-21-94GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA          |                             |      |           |                        |           |                     |
|---------------------------------------|---------------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
|                                       | TIME                      | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1216                                  |                           |                             |      |           |                        |           |                     |
| TIME FINISH                           |                           |                             |      |           |                        |           |                     |
| 1247                                  |                           |                             |      |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              | 1216                      | 5                           | 8.39 | 19.3      | 450                    | 20        | DARK BROWN SILTY    |
| TOTAL WELL DEPTH (TD)                 | 1219                      | 8                           | 8.35 | 18.8      | 480                    | 19        |                     |
| 26.92                                 | 1224                      | 15                          | 8.40 | 18.4      | 490                    | 19        |                     |
| WELL DIAMETER (INCHES)                | 1230                      | 17                          | 8.50 | 19.3      | 475                    | 19        |                     |
| 2.0                                   | 1234                      | 22                          | 8.37 | 18.8      | 495                    | 18        |                     |
| CALCULATED WELL VOLUME                | 1245                      | 28                          | 8.66 | 21.0      | 500                    | 20        |                     |
| 2.5 GAL                               | 1247                      | 30                          | 8.52 | 19.3      | 490                    | 19        |                     |
| BOREHOLE DIAMETER (INCHES)            |                           |                             |      |           |                        |           |                     |
| BOREHOLE VOLUME                       |                           |                             |      |           |                        |           |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                           |                             |      |           |                        |           |                     |
| DEVELOPMENT METHOD                    |                           |                             |      |           |                        |           |                     |
| Surge Block                           |                           |                             |      |           |                        |           |                     |
| PUMP TYPE                             |                           |                             |      |           |                        |           |                     |
| BK. Pump                              |                           |                             |      |           |                        |           |                     |
| TOTAL TIME (A)                        |                           |                             |      |           |                        |           |                     |
| 31 min                                |                           |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 | <b>OBSERVATIONS/NOTES</b> |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      |                           |                             |      |           |                        |           |                     |
| HNU/OVA READING                       |                           |                             |      |           |                        |           |                     |
|                                       |                           |                             |      |           |                        |           |                     |

**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: Site 1 FCLDA RIIFS MCB CAMP LEJEUNECTO NO.: 62470-251WELL NO.: 1-6N11DATE: 4-21-84GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
|                                       | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 0919                                  |                    |                             |      |           |                        |           |                     |
| TIME FINISH                           |                    |                             |      |           |                        |           |                     |
| 0957                                  |                    |                             |      |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              | 0919               | 5                           | 6.51 | 17.2      | 500                    | 17        | Brown, TURBID       |
| TOTAL WELL DEPTH (TD)                 | 0923               | 10                          | 6.73 | 16.1      | 525                    | 17        |                     |
|                                       | 0926               | 14                          | 6.90 | 15.9      | 475                    | 16        |                     |
| WELL DIAMETER (INCHES)                | 0929               | 18                          | 6.91 | 16.6      | 500                    | 18        |                     |
|                                       | 0941               | 20                          | 6.84 | 16.7      | 510                    | 17.5      |                     |
| CALCULATED WELL VOLUME                | 0944               | 25                          | 6.87 | 16.8      | 475                    | 17        |                     |
|                                       | 0949               | 30                          | 6.97 | 16.7      | 475                    | 17.5      |                     |
| BOREHOLE DIAMETER (INCHES)            | 0957               | 38                          | 7.29 | 16.3      | 480                    | 17        |                     |
| BOREHOLE VOLUME                       |                    |                             |      |           |                        |           |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |      |           |                        |           |                     |
| DEVELOPMENT METHOD                    |                    |                             |      |           |                        |           |                     |
| Surge Block                           |                    |                             |      |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |      |           |                        |           |                     |
| BK Pump                               |                    |                             |      |           |                        |           |                     |
| TOTAL TIME (A)                        |                    |                             |      |           |                        |           |                     |
| 38 min                                |                    |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      |                    |                             |      |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |

**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: Site 1 FCLDA RI/FS MCB CAMP LEJEUNECTO NO.: 62470-231WELL NO.: 1-GW12DATE: 4-23-94GEOLOGIST/ENGINEER: BILL PEIRCE

| TIME START<br><i>1552</i>                | DEVELOPMENT DATA   |                             |             |             |                        |             |                     |
|--|--------------------|-----------------------------|-------------|-------------|------------------------|-------------|---------------------|
|  | TIME               | CUMULATIVE VOLUME (gallons) | pH          | TEMP (°C)   | SPEC. COND. (µmhos/cm) | TEMP (°C)   | COLOR AND TURBIDITY |
| TIME FINISH<br><i>1635</i>               |                    |                             |             |             |                        |             |                     |
| INITIAL WATER LEVEL (FT)                 | <i>1552</i>        | <i>2</i>                    | <i>7.67</i> | <i>20.5</i> | <i>200</i>             | <i>19</i>   |                     |
| TOTAL WELL DEPTH (TD)                    | <i>1555</i>        | <i>6</i>                    | <i>6.27</i> | <i>17.1</i> | <i>180</i>             | <i>18</i>   |                     |
|  | <i>1602</i>        | <i>8</i>                    | <i>6.07</i> | <i>17.7</i> | <i>185</i>             | <i>20</i>   |                     |
| WELL DIAMETER (INCHES)                   | <i>1606</i>        | <i>10</i>                   | <i>6.16</i> | <i>18.0</i> | <i>180</i>             | <i>18.5</i> |                     |
|  | <i>1610</i>        | <i>13</i>                   | <i>6.08</i> | <i>19.7</i> | <i>180</i>             | <i>19</i>   |                     |
| CALCULATED WELL VOLUME                   | <i>1622</i>        | <i>15</i>                   | <i>5.76</i> | <i>19.6</i> | <i>175</i>             | <i>19</i>   |                     |
|  | <i>1630</i>        | <i>18</i>                   | <i>5.87</i> | <i>18.3</i> | <i>175</i>             | <i>18.5</i> |                     |
| BOREHOLE DIAMETER (INCHES)               | <i>1635</i>        | <i>20</i>                   | <i>5.82</i> | <i>17.7</i> | <i>165</i>             | <i>18</i>   |                     |
| BOREHOLE VOLUME                          |                    |                             |             |             |                        |             |                     |
| AMOUNT OF WATER ADDED DURING DRILLING    |                    |                             |             |             |                        |             |                     |
| DEVELOPMENT METHOD<br><i>SURGE Block</i> |                    |                             |             |             |                        |             |                     |
| PUMP TYPE<br><i>BK Pump</i>              |                    |                             |             |             |                        |             |                     |
| TOTAL TIME (A)                           |                    |                             |             |             |                        |             |                     |
| AVERAGE FLOW (GPM)(B)                    |                    |                             |             |             |                        |             |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =         | OBSERVATIONS/NOTES |                             |             |             |                        |             |                     |
| HNU/OVA READING                          |                    |                             |             |             |                        |             |                     |

**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: Site 1 FCLDA RIIFS MCB CAMP LEJEUNECTO NO.: 62470-231WELL NO.: 1 GW 13DATE: 4-19-94 AND 4-20-94GEOLOGIST/ENGINEER: Bill PEIKEY

| TIME START<br>19 20<br>1537 1343      | DEVELOPMENT DATA   |                             |      |           |                        |           |                               |
|---------------------------------------|--|-----------------------------|------|-----------|------------------------|-----------|-------------------------------|
|                                       | TIME   | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY           |
| TIME FINISH<br>1553 1432              |  |                             |      |           |                        |           |                               |
| INITIAL WATER LEVEL (FT)<br>19.9      | 1537   | 2                           | 5.07 | 21.2      | 75                     | 24        | LT. BROWN<br>TURBID, FINE SED |
| TOTAL WELL DEPTH (TD)<br>33.65        | 1541   | 6                           | 4.75 | 21.8      | 70                     | 22        |                               |
| WELL DIAMETER (INCHES)<br>2.0         | 1546   | 10                          | 4.70 | 20.7      | 75                     | 22.5      |                               |
| CALCULATED WELL VOLUME<br>2.3 GAL.    | 1553   | 16                          | 4.58 | 20.6      | 75                     | 23        |                               |
|                                       | 4-20-94  |                             |      |           |                        |           |                               |
|                                       | 1343   | 18                          | 5.19 | 25.3      | 60                     | 27        |                               |
| BOREHOLE DIAMETER (INCHES)            | 1351   | 22                          | 5.01 | 21.7      | 60                     | 25        |                               |
|                                       | 1407   | 28                          | 4.93 | 22.7      | 70                     | 27        |                               |
| BOREHOLE VOLUME                       | 1432   | 36                          | 4.89 | 27.7      | 75                     | 25        | WATER REMAINS<br>LT. BROWN    |
| AMOUNT OF WATER ADDED DURING DRILLING |  |                             |      |           |                        |           |                               |
| DEVELOPMENT METHOD<br>SURGE Block     |  |                             |      |           |                        |           |                               |
| PUMP TYPE<br>BK PUMP                  |  |                             |      |           |                        |           |                               |
| TOTAL TIME (A)<br>65 min              |  |                             |      |           |                        |           |                               |
| AVERAGE FLOW (GPM)(B)                 |  |                             |      |           |                        |           |                               |
| TOTAL ESTIMATED WITHDRAWAL AXB=       | OBSERVATIONS/NOTES<br>THE SURGE Block BECAME LODGED IN WELL AND DEVELOPMENT CONTINUED THE NEXT DAY AFTER IT'S REMOVAL. |                             |      |           |                        |           |                               |
| HNU/OVA READING                       |  |                             |      |           |                        |           |                               |

# FIELD WELL DEVELOPMENT RECORD



**Baker Environmental, Inc.**

PROJECT: SITE 1 FCLDA REIFS CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 1-GW16

DATE: 4-21-94

GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                       |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|-----------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY   |
| 1540                                  |                    |                             |      |           |                        |           |                       |
| 1611                                  |                    |                             |      |           |                        |           |                       |
| INITIAL WATER LEVEL (FT)<br>16.98     | 1540               | 3                           | 7.00 | 20.7      | 265                    | 23        | LT. BROWN LITTLE SILT |
| TOTAL WELL DEPTH (TD)<br>29.73        | 1543               | 8                           | 7.38 | 24.2      | 235                    | 21        |                       |
| WELL DIAMETER (INCHES)<br>2.0         | 1546               | 10                          | 7.10 | 18.1      | 230                    | 20        |                       |
| CALCULATED WELL VOLUME<br>2.2 GALS.   | 1548               | 15                          | 7.09 | 18.6      | 210                    | 20        |                       |
| BOREHOLE DIAMETER (INCHES)            | 1551               | 18                          | 7.01 | 18.5      | 210                    | 19.5      |                       |
| BOREHOLE VOLUME                       | 1554               | 22                          | 6.91 | 18.1      | 200                    | 19.5      |                       |
| AMOUNT OF WATER ADDED DURING DRILLING | 1557               | 27                          | 6.86 | 17.9      | 205                    | 19.5      |                       |
| DEVELOPMENT METHOD<br>Surge Block     | 1609               | 31                          | 6.43 | 18.4      | 205                    | 20        |                       |
| PUMP TYPE<br>BK Pump                  | 1611               | 36                          | 6.71 | 18.8      | 210                    | 20        | LT. BROWN.            |
| TOTAL TIME (A)<br>31 min.             |                    |                             |      |           |                        |           |                       |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |      |           |                        |           |                       |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |      |           |                        |           |                       |
| HNU/OVA READING<br>0.3                |                    |                             |      |           |                        |           |                       |



**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: SITE 1 FCLWA RZ/FS MCB CAMP LEJEUNECTO NO.: 62470 -231 WELL NO.: 1-64175DATE: 4-21-94GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
|                                       | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1420                                  |                    |                             |      |           |                        |           |                     |
| TIME FINISH                           |                    |                             |      |           |                        |           |                     |
| 1510                                  |                    |                             |      |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              | 1420               | 2                           | 6.99 | 23.4      | 550                    | 24        | LT. BROWN silty     |
| 15.17                                 |                    |                             |      |           |                        |           |                     |
| TOTAL WELL DEPTH (TD)                 | 1425               | 6                           | 7.92 | 22.0      | 530                    | 23        |                     |
| 27.69                                 |                    |                             |      |           |                        |           |                     |
| WELL DIAMETER (INCHES)                | 1431               | 9                           | 8.05 | 21.5      | 600                    | 22        |                     |
| 2.0                                   |                    |                             |      |           |                        |           |                     |
| WELL DIAMETER (INCHES)                | 1441               | 12                          | 8.23 | 21.7      | 550                    | 23        |                     |
| 2.0                                   |                    |                             |      |           |                        |           |                     |
| CALCULATED WELL VOLUME                | 1501               | 15                          | 8.17 | 21.1      | 700                    | 25        |                     |
| 2.1 GALS.                             |                    |                             |      |           |                        |           |                     |
| BOREHOLE DIAMETER (INCHES)            | 1505               | 18                          | 7.87 | 21.4      | 650                    | 24        |                     |
|                                       |                    |                             |      |           |                        |           |                     |
| BOREHOLE DIAMETER (INCHES)            | 1570               | 21                          | 7.84 | 21.2      | 650                    | 23        |                     |
|                                       |                    |                             |      |           |                        |           |                     |
| BOREHOLE VOLUME                       |                    |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |
| DEVELOPMENT METHOD                    |                    |                             |      |           |                        |           |                     |
| SURGE Block                           |                    |                             |      |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |      |           |                        |           |                     |
| BK Pump                               |                    |                             |      |           |                        |           |                     |
| TOTAL TIME (A)                        |                    |                             |      |           |                        |           |                     |
| 50 min                                |                    |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |
| HNU/OVA READING                       | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
| 0.2                                   |                    |                             |      |           |                        |           |                     |

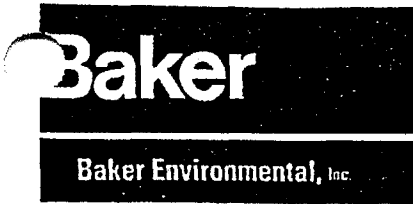
# FIELD WELL DEVELOPMENT RECORD

PROJECT: SITE 1 FCCDA RIIFS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 16W16DW

DATE: 5-7-94

GEOLOGIST/ENGINEER: MARTY TAUBE



| TIME START                            | DEVELOPMENT DATA   |                             |       |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|-------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH    | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1519                                  |                    |                             |       |           |                        |           |                     |
| 1620                                  |                    |                             |       |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              | 1519               | 0                           | 9.27  | 22.8      | 131                    | 22        | VERY TURBID         |
| TOTAL WELL DEPTH (TD)                 | 1524               | 25                          | 10.58 | 20.3      | 465                    | 19.5      |                     |
|                                       | 1527               | 38                          | 10.07 | 19.9      | 340                    | 20        |                     |
| WELL DIAMETER (INCHES)                | 1533               | 57                          | 9.75  | 20.3      | 282                    | 20        |                     |
|                                       | 1539               | 76                          | 9.53  | 20.6      | 249                    | 19.5      |                     |
| CALCULATED WELL VOLUME                | 1543               | 95                          | 9.40  | 19.9      | 231                    | 19        |                     |
|                                       | 1550               | 114                         | 9.29  | 20.5      | 229                    | 19        |                     |
| BOREHOLE DIAMETER (INCHES)            | 1558               | 133                         | 9.15  | 20.5      | 222                    | 20        |                     |
|                                       | 1605               | 152                         | 9.08  | 20.1      | 218                    | 20        |                     |
| BOREHOLE VOLUME                       | 1612               | 171                         | 9.00  | 20.5      | 210                    | 20        |                     |
|                                       | 1620               | 190                         | 8.94  | 20.6      | 210                    | 20        | CLEAR               |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |       |           |                        |           |                     |
| DEVELOPMENT METHOD                    |                    |                             |       |           |                        |           |                     |
| <i>Compressed Air</i>                 |                    |                             |       |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |       |           |                        |           |                     |
| TOTAL TIME (A)                        |                    |                             |       |           |                        |           |                     |
| <i>61 MIN.</i>                        |                    |                             |       |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |       |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |       |           |                        |           |                     |
| ANU/OVA READING                       |                    |                             |       |           |                        |           |                     |

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: SITE 1 FLDA RIFTS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 16w17 DW

DATE: 5-10-94

GEOLOGIST/ENGINEER: MARTY TAUBE

| TIME START                            | DEVELOPMENT DATA   |                             |       |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|-------|-----------|------------------------|-----------|---------------------|
|                                       | TIME               | CUMULATIVE VOLUME (gallons) | pH    | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 0846                                  |                    |                             |       |           |                        |           |                     |
| TIME FINISH                           |                    |                             |       |           |                        |           |                     |
| 0929                                  |                    |                             |       |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              | 0846               | 0                           | 8.79  | 23.2      | 168                    | 22.5      |                     |
| 14.26                                 |                    |                             |       |           |                        |           |                     |
| TOTAL WELL DEPTH (TD)                 | 0854               | 38                          | 11.67 | 19.5      | 960                    | 19        |                     |
| 120.6'                                | 0905               | 57                          | 11.50 | 19.4      | 680                    | 18.5      |                     |
| WELL DIAMETER (INCHES)                | 0911               | 76                          | 11.30 | 19.8      | 452                    | 19        |                     |
| 2.0                                   |                    |                             |       |           |                        |           |                     |
| CALCULATED WELL VOLUME                | 0922               | 95                          | 11.27 | 19.7      | 458                    | 19.5      |                     |
| 18.48                                 | 0929               | 114                         | 11.14 | 19.9      | 381                    | 19.5      |                     |
| BOREHOLE DIAMETER (INCHES)            |                    |                             |       |           |                        |           |                     |
| BOREHOLE VOLUME                       |                    |                             |       |           |                        |           |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |       |           |                        |           |                     |
| DEVELOPMENT METHOD                    |                    |                             |       |           |                        |           |                     |
| COMPRESSED AIR                        |                    |                             |       |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |       |           |                        |           |                     |
| TOTAL TIME (A)                        |                    |                             |       |           |                        |           |                     |
| 43 MIN.                               |                    |                             |       |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |       |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |       |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |       |           |                        |           |                     |

**SITE 28**

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**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNECTO NO.: 62470-231 WELL NO.: 28-GW015DATE: 4-22-94GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA          |                             |      |           |                        |           |                         |
|---------------------------------------|---------------------------|-----------------------------|------|-----------|------------------------|-----------|-------------------------|
|                                       | TIME                      | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY     |
| 1103                                  |                           |                             |      |           |                        |           |                         |
| TIME FINISH                           |                           |                             |      |           |                        |           |                         |
| 1102                                  |                           |                             |      |           |                        |           |                         |
| INITIAL WATER LEVEL (FT)              | 1013                      | 2                           | 7.50 | 16.7      | 390                    | 17.5      | HEAVY SILT BROWN/GREEN. |
| 6.02                                  |                           |                             |      |           |                        |           |                         |
| TOTAL WELL DEPTH (TD)                 | 1017                      | 6                           | 7.51 | 17.0      | 380                    | 18        |                         |
| 19.49                                 |                           |                             |      |           |                        |           |                         |
| WELL DIAMETER (INCHES)                | 1026                      | 8                           | 7.39 | 17.9      | 365                    | 19        |                         |
| 2.0"                                  |                           |                             |      |           |                        |           |                         |
| CALCULATED WELL VOLUME                | 1037                      | 15                          | 7.26 | 17.3      | 395                    | 18        |                         |
| 2.3 GAL.                              |                           |                             |      |           |                        |           |                         |
| BOREHOLE DIAMETER (INCHES)            | 1041                      | 18                          | 7.11 | 17.2      | 395                    | 18.5      |                         |
|                                       | 1044                      | 25                          | 7.10 | 17.0      | 430                    | 17.5      |                         |
| BOREHOLE VOLUME                       | 1044                      | 29                          | 7.06 | 17.2      | 430                    | 17.5      |                         |
|                                       | 1056                      | 32                          | 7.01 | 17.3      | 440                    | 18.5      |                         |
| AMOUNT OF WATER ADDED DURING DRILLING | 1059                      | 38                          | 7.05 | 17.2      | 435                    | 18        |                         |
|                                       | 1102                      | 40                          | 7.12 | 17.4      | 430                    | 17.5      |                         |
| DEVELOPMENT METHOD                    |                           |                             |      |           |                        |           |                         |
| PUMP TYPE                             |                           |                             |      |           |                        |           |                         |
| BK Pump                               |                           |                             |      |           |                        |           |                         |
| TOTAL TIME (A)                        |                           |                             |      |           |                        |           |                         |
| 49 MIN.                               |                           |                             |      |           |                        |           |                         |
| AVERAGE FLOW (GPM)(B)                 | <b>OBSERVATIONS/NOTES</b> |                             |      |           |                        |           |                         |
| TOTAL ESTIMATED WITHDRAWAL AxB =      |                           |                             |      |           |                        |           |                         |
| HNU/OVA READING                       |                           |                             |      |           |                        |           |                         |
|                                       |                           |                             |      |           |                        |           |                         |

# FIELD WELL DEVELOPMENT RECORD

# Baker

**Baker Environmental, Inc.**

PROJECT: Site 28 - HPBD RIIF5 MCB CAMP LEJEUNE

CTO NO.: 62470 - 231 WELL NO.: 28 GW 05

DATE: 4-11-94

GEOLOGIST/ENGINEER: William PELKEY

| TIME START                                   | DEVELOPMENT DATA   |                             |      |           |                        |           |                             |
|--|--------------------|-----------------------------|------|-----------|------------------------|-----------|-----------------------------|
| TIME FINISH                                  | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY         |
| 1536   |                    |                             |      |           |                        |           |                             |
| 1557   |                    |                             |      |           |                        |           |                             |
| INITIAL WATER LEVEL (FT)<br>12.75            | 1536               | 10                          | 6.65 | 19.9      | 220                    | 21        | LT. BROWN<br>VERY SILTY     |
| TOTAL WELL DEPTH (TD)<br>24.98               | 1540               | 18                          | 6.25 | 18.5      | 188                    | 20        |                             |
| WELL DIAMETER (INCHES)<br>2.0                | 1545               | 22                          | 6.05 | 17.7      | 160                    | 20        |                             |
| CALCULATED WELL VOLUME<br>2.1 GAL.           | 1550               | 28                          | 6.08 | 17.4      | 165                    | 19        |                             |
| BOREHOLE DIAMETER (INCHES)                   | 1553               | 38                          | 6.17 | 17.6      | 152                    | 18        |                             |
| BOREHOLE VOLUME                              | 1555               | 46                          | 6.11 | 17.3      | 145                    | 19        | LT BROWN<br>SLIGHTLY TURBID |
| AMOUNT OF WATER ADDED DURING DRILLING        | 1557               | 52                          | 6.13 | 18.2      | 140                    | 19        | NOT QUITE CLEAR<br>NO SILT  |
| DEVELOPMENT METHOD<br>Surge Block<br>BK PUMP |                    |                             |      |           |                        |           |                             |
| PUMP TYPE<br>BK. PUMP                        |                    |                             |      |           |                        |           |                             |
| TOTAL TIME (A)<br>21 min                     |                    |                             |      |           |                        |           |                             |
| AVERAGE FLOW (GPM)(B)                        |                    |                             |      |           |                        |           |                             |
| TOTAL ESTIMATED WITHDRAWAL AxB =             | OBSERVATIONS/NOTES |                             |      |           |                        |           |                             |
| HNU/OVA READING<br>0. ppm                    |                    |                             |      |           |                        |           |                             |

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 28-GW06

DATE: 4-19-94

GEOLOGIST/ENGINEER: BILL PEIRCEY

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
|                                       | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1257                                  |                    |                             |      |           |                        |           |                     |
| TIME FINISH                           |                    |                             |      |           |                        |           |                     |
| 1419                                  |                    |                             |      |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              |                    |                             |      |           |                        |           |                     |
| 18.64                                 | 1257               | 2.5                         | 5.27 | 19.2      | 130                    | 23        | LT. Brown<br>SILTY  |
| TOTAL WELL DEPTH (TD)                 |                    |                             |      |           |                        |           |                     |
| 32.31                                 | 1302               | 5                           | 5.42 | 20.2      | 130                    | 22.5      |                     |
| WELL DIAMETER (INCHES)                |                    |                             |      |           |                        |           |                     |
| 2.0                                   | 1311               | 10                          | 5.41 | 19.6      | 125                    | 23        |                     |
| CALCULATED WELL VOLUME                |                    |                             |      |           |                        |           |                     |
| 2.3 GAL.                              | 1353               | 12                          | 5.76 | 20.6      | 125                    | 26        |                     |
| BOREHOLE DIAMETER (INCHES)            |                    |                             |      |           |                        |           |                     |
|                                       | 1358               | 15                          | 5.48 | 20.1      | 120                    | 22        |                     |
| BOREHOLE VOLUME                       |                    |                             |      |           |                        |           |                     |
|                                       | 1406               | 18                          | 5.63 | 24        | 118                    | 24        |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |      |           |                        |           |                     |
|                                       | 1419               | 22                          | 5.46 | 20.5      | 115                    | 23        | CLEAR               |
| DEVELOPMENT METHOD                    |                    |                             |      |           |                        |           |                     |
| SURGE Block                           |                    |                             |      |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |      |           |                        |           |                     |
| BK Pump                               |                    |                             |      |           |                        |           |                     |
| TOTAL TIME (A)                        |                    |                             |      |           |                        |           |                     |
| 82 min.                               |                    |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      |                    |                             |      |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |

**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNECTO NO.: 62470-231 WELL NO.: 28-GW07DATE: 4-19-94GEOLOGIST/ENGINEER: BILL PELKEY

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
|                                       | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1015                                  |                    |                             |      |           |                        |           |                     |
| TIME FINISH                           |                    |                             |      |           |                        |           |                     |
| 1215                                  |                    |                             |      |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              |                    |                             |      |           |                        |           |                     |
| 4.88                                  |                    |                             |      |           |                        |           |                     |
| TOTAL WELL DEPTH (TD)                 | 1035               | 2.5                         | 6.76 | 22.8      | 1850                   | 20        | DARK BROWN SHEEN    |
| 19.22                                 | 1038               | 5                           | 6.56 | 17.1      | 2100                   | 18.5      |                     |
| WELL DIAMETER (INCHES)                | 1042               | 15                          | 6.16 | 17.5      | 2500                   | 18        |                     |
| 2.0                                   | 1047               | 20                          | 6.21 | 17.3      | 2450                   | 19        |                     |
| CALCULATED WELL VOLUME                | 1051               | 25                          | 6.69 | 16.7      | 2600                   | 19        |                     |
| 2.4 GAL                               | 1204               | 30                          | 5.98 | 19.6      | 2300                   | 18        |                     |
| BOREHOLE DIAMETER (INCHES)            | 1208               | 35                          | 6.72 | 16.9      | 2300                   | 20        |                     |
| BOREHOLE VOLUME                       | 1212               | 40                          | 6.73 | 16.2      | 2350                   | 19        |                     |
| AMOUNT OF WATER ADDED DURING DRILLING | 1215               | 45                          | 6.37 | 17.1      | 2300                   | 19        | CLEAR.              |
| DEVELOPMENT METHOD                    |                    |                             |      |           |                        |           |                     |
| SURGE Block                           |                    |                             |      |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |      |           |                        |           |                     |
| BK. Pump                              |                    |                             |      |           |                        |           |                     |
| TOTAL TIME (A)                        |                    |                             |      |           |                        |           |                     |
| 120 min.                              |                    |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      |                    |                             |      |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |



**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNECTO NO.: 62470-231WELL NO.: 28-6W08DATE: 4-11-94GEOLOGIST/ENGINEER: BILL PEIKEY

| TIME START                            | DEVELOPMENT DATA          |                             |      |           |                        |           |                         |
|---------------------------------------|---------------------------|-----------------------------|------|-----------|------------------------|-----------|-------------------------|
|                                       | TIME                      | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY     |
| 1803                                  |                           |                             |      |           |                        |           |                         |
| TIME FINISH                           |                           |                             |      |           |                        |           |                         |
| 1922                                  |                           |                             |      |           |                        |           |                         |
| INITIAL WATER LEVEL (FT)              | 1803                      | 2.2                         | 7.79 | 16.6      | 725                    | 17.5      | DARK BLACK SILTY, SHEEN |
| 14.69                                 |                           |                             |      |           |                        |           |                         |
| TOTAL WELL DEPTH (TD)                 | 1808                      | 6.6                         | 7.68 | 16.7      | 800                    | 18        |                         |
| 27.54                                 |                           |                             |      |           |                        |           |                         |
|                                       | 1811                      | 15                          | 7.78 | 17.2      | 1100                   | 18.5      |                         |
| WELL DIAMETER (INCHES)                | 1824                      | 20                          | 7.94 | 17.0      | 1375                   | 18        |                         |
| 2.0                                   |                           |                             |      |           |                        |           |                         |
|                                       | 1837                      | 25                          | 8.37 | 16.8      | 1500                   | 18        |                         |
| CALCULATED WELL VOLUME                | 1846                      | 28                          | 8.58 | 16.7      | 1575                   | 18        |                         |
| 2.2 GAL                               |                           |                             |      |           |                        |           |                         |
|                                       | 1857                      | 30                          | 8.46 | 16.6      | 1600                   | 18        |                         |
| BOREHOLE DIAMETER (INCHES)            | 1907                      | 32                          | 8.29 | 16.3      | 1600                   | 18        | LT. TAN SLIGHTLY TURBID |
|                                       |                           |                             |      |           |                        |           |                         |
| BOREHOLE VOLUME                       | 1915                      | 36                          | 8.07 | 16.5      | 1600                   | 18        |                         |
|                                       |                           |                             |      |           |                        |           |                         |
| AMOUNT OF WATER ADDED DURING DRILLING | 1922                      | 40                          | 8.71 | 16.5      | 1600                   | 17.5      |                         |
|                                       |                           |                             |      |           |                        |           |                         |
| DEVELOPMENT METHOD                    |                           |                             |      |           |                        |           |                         |
| SURGE Block                           |                           |                             |      |           |                        |           |                         |
| PUMP TYPE                             |                           |                             |      |           |                        |           |                         |
| BK Pump                               |                           |                             |      |           |                        |           |                         |
| TOTAL TIME (A)                        |                           |                             |      |           |                        |           |                         |
| 69 MIN.                               |                           |                             |      |           |                        |           |                         |
| AVERAGE FLOW (GPM)(B)                 |                           |                             |      |           |                        |           |                         |
|                                       |                           |                             |      |           |                        |           |                         |
| TOTAL ESTIMATED WITHDRAWAL AxB =      |                           |                             |      |           |                        |           |                         |
|                                       |                           |                             |      |           |                        |           |                         |
| HNU/OVA READING                       |                           |                             |      |           |                        |           |                         |
| 1.4 ppm                               |                           |                             |      |           |                        |           |                         |
|                                       | <b>OBSERVATIONS/NOTES</b> |                             |      |           |                        |           |                         |

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: Site 28 HPBD RI/FS MCB CAMP Levee

CTO NO.: 62470-231 WELL NO.: 28-T-6WPA.

DATE: 4/20/94

GEOLOGIST/ENGINEER: WILLIAM PELKEY

| TIME START                            | DEVELOPMENT DATA   |                             |       |           |                        |           |   |
|---------------------------------------|--|-----------------------------|-------|-----------|------------------------|-----------|---|
|                                       | TIME   | CUMULATIVE VOLUME (gallons) | pH    | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY                                       |
| 0755                                  |  |                             |       |           |                        |           |   |
| 0825                                  |  |                             |       |           |                        |           |   |
| INITIAL WATER LEVEL (FT)<br>14.53     | 0816   | 1.5                         | 9.76  | 6.8       | 550                    | 20        | DARK color TO BLACK<br>FINE SILT/PETROLEUM+ORGANIC color. |
| TOTAL WELL DEPTH (TD)<br>22.56        | 0821   | 3                           | 10.92 | 5.8       | 510                    | 20        | "SAME"  |
| WELL DIAMETER (INCHES)<br>2"          | 0825   | 4.5                         | 11.08 | 6.1       | 775                    | 20        | "SAME"  |
| CALCULATED WELL VOLUME<br>1.37 GAL.   |  |                             |       |           |                        |           |   |
| BOREHOLE DIAMETER (INCHES)            |  |                             |       |           |                        |           |   |
| BOREHOLE VOLUME                       |  |                             |       |           |                        |           |   |
| AMOUNT OF WATER ADDED DURING DRILLING |  |                             |       |           |                        |           |   |
| DEVELOPMENT METHOD<br>SURGE BLOCK     |  |                             |       |           |                        |           |   |
| PUMP TYPE<br>BK. PUMP                 |  |                             |       |           |                        |           |   |
| TOTAL TIME (A)<br>30 MIN.             |  |                             |       |           |                        |           |   |
| AVERAGE FLOW (GPM)(B)                 |  |                             |       |           |                        |           |   |
| TOTAL ESTIMATED WITHDRAWAL Ax8 =      | OBSERVATIONS/NOTES<br>* NOTE pH METER EXPERIENCING ELECTRONIC DIFFICULTIES |                             |       |           |                        |           |   |
| HNU/OVA READING<br>0.2 PPM            |  |                             |       |           |                        |           |   |

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc.

PROJECT: SITE 28 HPBD REIFS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 28-GW01DW

DATE: 5-3-94

GEOLOGIST/ENGINEER: MARTY TAUBE

| TIME START                            | DEVELOPMENT DATA   |                             |       |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|-------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH    | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1022                                  |                    |                             |       |           |                        |           |                     |
| 1217                                  |                    |                             |       |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)<br>3.68      | 1022               | 0                           | 8.84  | 24.2      | 1510                   | 20        | VERY SILTY          |
| TOTAL WELL DEPTH (TD)<br>134.2'       | 1043               | 22                          | 10.38 | 19.9      | 1520                   | 19.5      |                     |
|                                       | 1047               | 44                          | 9.77  | 19.8      | 2020                   | 19        |                     |
| WELL DIAMETER (INCHES)<br>2.0'        | 1107               | 66                          | 9.14  | 20.4      | 2890                   | 19.5      |                     |
|                                       | 1112               | 88                          | 8.92  | 19.7      | 3120                   | 19.5      |                     |
| CALCULATED WELL VOLUME<br>22 GAL.     | 1138               | 110                         | 8.71  | 19.7      | 3330                   | 20        |                     |
|                                       | 1150               | 132                         | 8.61  | 19.8      | 3410                   | 20        |                     |
| BOREHOLE DIAMETER (INCHES)            | 1205               | 154                         | 8.60  | 20.0      | 3490                   | 19.5      |                     |
|                                       | 1217               | 176                         | 8.50  | 20.2      | 3510                   | 19.5      | ALMOST CLEAR.       |
| BOREHOLE VOLUME                       |                    |                             |       |           |                        |           |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |       |           |                        |           |                     |
| DEVELOPMENT METHOD<br>COMPRESSED AIR  |                    |                             |       |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |       |           |                        |           |                     |
| TOTAL TIME (A)<br>115 min.            |                    |                             |       |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |       |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |       |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |       |           |                        |           |                     |

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc.

PROJECT: SITE 28 HPBD RIFTS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 28 GW 07 DW

DATE: 5-3-94 + 5-4-94 PAGE 1 OF 2

GEOLOGIST/ENGINEER: MARTY TAUBE

| TIME START                            | DEVELOPMENT DATA   |                             |       |           |                        |           |                     |
|---------------------------------------|--|-----------------------------|-------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME   | CUMULATIVE VOLUME (gallons) | pH    | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1423                                  |  |                             |       |           |                        |           |                     |
| 1834                                  |  |                             |       |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)<br>4.58      | 1423   | 0                           | 12.27 | 23.1      | 3790                   | 22        | Muddy.              |
| TOTAL WELL DEPTH (TD)<br>112.0'       | 1432   | 19                          | 12.10 | 21.0      | 3500                   | 20.5      |                     |
|                                       | 1511   | 44                          | 12.04 | 20.6      | 1900                   | 20        |                     |
| WELL DIAMETER (INCHES)<br>2.09        | 1542   | 66                          | 11.75 | 20.9      | 1040                   | 20.5      |                     |
| CALCULATED WELL VOLUME<br>18.3        | 1613   | 88                          | 11.15 | 21.3      | 491                    | 20.5      |                     |
|                                       | 1708   | 110                         | 11.66 | 19.4      | 790                    | 19        |                     |
| BOREHOLE DIAMETER (INCHES)            | 1723   | 132                         | 11.28 | 19.3      | 408                    | 19        |                     |
|                                       | 1738   | 154                         | 10.77 | 19.1      | 270                    | 19        |                     |
| BOREHOLE VOLUME                       | 1752   | 176                         | 10.40 | 19.0      | 220                    | 19        |                     |
| AMOUNT OF WATER ADDED DURING DRILLING | 1806   | 198                         | 10.02 | 18.9      | 191                    | 19        |                     |
|                                       | 1820   | 220                         | 9.98  | 18.9      | 172                    | 19        |                     |
| DEVELOPMENT METHOD<br>Compressed Air  | 1834   | 242                         | 9.68  | 19.0      | 171                    | 19        |                     |
| PUMP TYPE                             |  |                             |       |           |                        |           |                     |
| TOTAL TIME (A)<br>4 Hr. 11 min.       |  |                             |       |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |  |                             |       |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | <b>OBSERVATIONS/NOTES</b><br><br>SEE PAGE 2 FOR 5-4-94 DEVELOPING OF THIS WELL TO TRY TO STABILIZE PH. |                             |       |           |                        |           |                     |
| HNU/OVA READING                       |  |                             |       |           |                        |           |                     |

# FIELD WELL DEVELOPMENT RECORD



Baker Environmental, Inc.

PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 286W07DW

DATE: 5-4-94 PAGE 2 OF 2

GEOLOGIST/ENGINEER: MARTY TAUBE

| TIME START                            | DEVELOPMENT DATA   |                             |       |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|-------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH    | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 0827                                  |                    |                             |       |           |                        |           |                     |
| 0959                                  |                    |                             |       |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              | 0827               | 0                           | 10.56 | 20.2      | 200                    | 20        |                     |
| TOTAL WELL DEPTH (TD)                 | 0830               | 22                          | 11.21 | 19.0      | 380                    | 18.5      |                     |
|                                       | 0840               | 44                          | 10.58 | 18.7      | 205                    | 18        |                     |
| WELL DIAMETER (INCHES)<br>2.0"        | 0848               | 66                          | 9.90  | 18.7      | 170                    | 18        |                     |
| CALCULATED WELL VOLUME<br>18.3        | 0858               | 88                          | 9.53  | 18.7      | 170                    | 18        |                     |
|                                       | 0908               | 110                         | 9.08  | 18.6      | 170                    | 18.5      |                     |
| BOREHOLE DIAMETER (INCHES)            | 0917               | 132                         | 9.22  | 18.8      | 170                    | 18.5      |                     |
| BOREHOLE VOLUME                       | 0926               | 154                         | 8.64  | 18.6      | 180                    | 19        |                     |
|                                       | 0935               | 176                         | 9.08  | 18.9      | 175                    | 19        |                     |
| AMOUNT OF WATER ADDED DURING DRILLING | 0943               | 198                         | 8.52  | 18.7      | 180                    | 19        |                     |
|                                       | 0951               | 220                         | 8.93  | 18.8      | 187                    | 19        |                     |
| DEVELOPMENT METHOD<br>Compressed Air. | 0959               | 232                         | 8.93  | 18.9      | 188                    | 19        |                     |
| PUMP TYPE                             |                    |                             |       |           |                        |           |                     |
| TOTAL TIME (A)<br>92 MIN.             |                    |                             |       |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |       |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |       |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |       |           |                        |           |                     |

# FIELD WELL DEVELOPMENT RECORD



**Baker Environmental, Inc.**

PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 28-GW09 DW

*PAGE 1 OF 2*

DATE: 4-23-94

GEOLOGIST/ENGINEER: BILL PELKEY

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| 1026                                  |                    |                             |      |           |                        |           |                     |
| 1346                                  |                    |                             |      |           |                        |           |                     |
| INITIAL WATER LEVEL (FT)              |                    |                             |      |           |                        |           |                     |
| 6.75'                                 | 1026               | 18                          | 8.90 | 18.8      | 440                    | 20        | GRAY                |
| TOTAL WELL DEPTH (TD)                 | 1032               | 26                          | 8.38 | 18.6      | 435                    | 20        |                     |
| 128.42'                               | 1036               | 30                          | 8.37 | 18.9      | 360                    | 20        |                     |
| WELL DIAMETER (INCHES)                | 1044               | 40                          | 8.11 | 19.1      | 340                    | 20.5      |                     |
| 2.0                                   | 1048               | 48                          | 8.69 | 18.6      | 345                    | 19.5      |                     |
| CALCULATED WELL VOLUME                | 1057               | 55                          | 8.09 | 19.2      | 320                    | 20.5      |                     |
| 20.7                                  | 1103               | 65                          | 8.11 | 19.7      | 305                    | 20.5      |                     |
| BOREHOLE DIAMETER (INCHES)            | 1109               | 72                          | 8.28 | 18.8      | 303                    | 21        |                     |
| BOREHOLE VOLUME                       | 1119               | 78                          | 8.68 | 19.5      | 290                    | 21        |                     |
| AMOUNT OF WATER ADDED DURING DRILLING | 1126               | 85                          | 8.08 | 18.6      | 285                    | 21        |                     |
|                                       | 1138               | 90                          | 7.98 | 19.2      | 285                    | 21        |                     |
| DEVELOPMENT METHOD                    | 1146               | 105                         | 7.91 | 18.9      | 280                    | 21        |                     |
| Compressed Air Down Well              | 1155               | 120                         | 7.87 | 19.3      | 280                    | 21.5      |                     |
| PUMP TYPE                             | 1205               | 135                         | 7.87 | 19.2      | 275                    | 21        |                     |
| TOTAL TIME (A)                        | 1215               | 140                         | 7.87 | 19.4      | 275                    | 21.5      |                     |
| 200 min.                              | 1250               | 145                         | 8.38 | 19.6      | 280                    | 21.5      |                     |
| AVERAGE FLOW (GPM)(B)                 | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      |                    |                             |      |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |      |           |                        |           |                     |
|                                       |                    |                             |      |           |                        |           |                     |

# FIELD WELL DEVELOPMENT RECORD



**Baker Environmental, Inc.**

PROJECT: SITE 28 HPBD RI/FS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 28-GW09DW

*PAGE 2 OF 2*

DATE: 4-23-94

GEOLOGIST/ENGINEER: Bill Peikay

| TIME START                            | DEVELOPMENT DATA   |                             |      |           |                        |           |                     |
|---------------------------------------|--------------------|-----------------------------|------|-----------|------------------------|-----------|---------------------|
| TIME FINISH                           | TIME               | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY |
| INITIAL WATER LEVEL (FT)              | 1301               | 155                         | 8.15 | 19.2      | 275                    | 22        |                     |
| TOTAL WELL DEPTH (TD)                 | 1310               | 165                         | 7.91 | 19.8      | 273                    | 21        |                     |
|                                       | 1318               | 175                         | 7.84 | 19.8      | 270                    | 21        |                     |
| WELL DIAMETER (INCHES)                | 1327               | 185                         | 7.80 | 19.7      | 270                    | 21        |                     |
| CALCULATED WELL VOLUME                | 1333               | 190                         | 7.79 | 19.7      | 270                    | 20        |                     |
|                                       | 1340               | 200                         | 7.80 | 20        | 270                    | 21        |                     |
| BOREHOLE DIAMETER (INCHES)            | 1346               | 205                         | 7.73 | 18.8      | 268                    | 21        | LT. GRAY            |
| BOREHOLE VOLUME                       |                    |                             |      |           |                        |           |                     |
| AMOUNT OF WATER ADDED DURING DRILLING |                    |                             |      |           |                        |           |                     |
| DEVELOPMENT METHOD                    |                    |                             |      |           |                        |           |                     |
| PUMP TYPE                             |                    |                             |      |           |                        |           |                     |
| TOTAL TIME (A)                        |                    |                             |      |           |                        |           |                     |
| AVERAGE FLOW (GPM)(B)                 |                    |                             |      |           |                        |           |                     |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | OBSERVATIONS/NOTES |                             |      |           |                        |           |                     |
| HNU/OVA READING                       |                    |                             |      |           |                        |           |                     |

**SITE 30**

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# FIELD WELL DEVELOPMENT RECORD



**Baker Environmental, Inc.**

PROJECT: SITE 30 SFRPTSA RIIFS MCB CAMP LEJEUNE

CTO NO.: 62470-231 WELL NO.: 30-GW03

DATE: 4-9-94

GEOLOGIST/ENGINEER: KEN TUA

| TIME START                            | DEVELOPMENT DATA  |                             |      |           |                        |           |                             |
|---------------------------------------|---|-----------------------------|------|-----------|------------------------|-----------|-----------------------------|
| TIME FINISH                           | TIME  | CUMULATIVE VOLUME (gallons) | pH   | TEMP (°C) | SPEC. COND. (µmhos/cm) | TEMP (°C) | COLOR AND TURBIDITY         |
| 1805                                  |   |                             |      |           |                        |           |                             |
| 1821                                  |   |                             |      |           |                        |           |                             |
| INITIAL WATER LEVEL (FT)              | 1805  | 3                           | 5.18 | 16.7      | 75                     | 17.5      | COFFEE COLOR, VERY ORGANIC. |
| TOTAL WELL DEPTH (TD)                 | 1808  | 15                          | 5.04 | 16.1      | 70                     | 17.0      |                             |
|                                       | 1813  | 35                          | 5.04 | 15.5      | 70                     | 16        |                             |
| WELL DIAMETER (INCHES)                | 1817  | 40                          | 5.09 | 15.4      | 75                     | 15        |                             |
| 2.0                                   |   |                             |      |           |                        |           |                             |
| CALCULATED WELL VOLUME                | 1821  | 55                          | 5.08 | 15.9      | 75                     | 16        | COFFEE COLOR, VERY ORGANIC. |
| BOREHOLE DIAMETER (INCHES)            |   |                             |      |           |                        |           |                             |
| BOREHOLE VOLUME                       |   |                             |      |           |                        |           |                             |
| AMOUNT OF WATER ADDED DURING DRILLING |   |                             |      |           |                        |           |                             |
| DEVELOPMENT METHOD                    |   |                             |      |           |                        |           |                             |
| SURGE Block                           |   |                             |      |           |                        |           |                             |
| PUMP TYPE                             |   |                             |      |           |                        |           |                             |
| BK Pump                               |   |                             |      |           |                        |           |                             |
| TOTAL TIME (A)                        |   |                             |      |           |                        |           |                             |
| 16 min                                |   |                             |      |           |                        |           |                             |
| AVERAGE FLOW (GPM)(B)                 |   |                             |      |           |                        |           |                             |
| TOTAL ESTIMATED WITHDRAWAL AxB =      | <b>OBSERVATIONS/NOTES</b><br>INITIAL S.W.L. MEASURED BUT NOT RECORDED. SAME FOR WELL NO. AREA WAS BUG INFESTED. SWARMING INSECTS MADE FOR QUICK WELL DEVELOPMENT. WATER WAS VERY ORGANIC AND DID NOT CLEAR UP AS DEVELOPMENT PROCEEDED. WELL DID PRODUCE MUCH WATER WITH NO DRAWDOWN. |                             |      |           |                        |           |                             |
| HNU/OVA READING                       |   |                             |      |           |                        |           |                             |

**APPENDIX E**  
**INVESTIGATION DERIVED WASTE SUMMARY**  
**AND RECOMMENDATIONS**

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**Baker**

**Baker Environmental, Inc.**  
Airport Office Park, Building 3  
420 Rouser Road  
Coraopolis, Pennsylvania 15108

(412) 269-6000  
FAX (412) 269-2002

July 1, 1994

Commander  
Atlantic Division  
Naval Facilities Engineering Command  
1510 Gilbert Street (Building N-26)  
Norfolk, Virginia 23511-2699

Attn: Ms. Linda Berry, P.E.  
Navy Technical Representative  
Code 1823

Re: Contract N62470-89-D-4814  
Navy CLEAN, District III  
Contract Task Orders (CTOs) 0212 and 0231  
Sites 41 (CTO 0212), 1, 28, and 30 (CTO 0231)  
Investigation-Derived Waste (IDW) Disposal  
Marine Corps Base (MCB), Camp Lejeune, North Carolina

Dear Ms. Berry:

This letter provides a summary of IDW disposal activities at those sites referenced above within Operable Units (OUs) No. 4 and No. 7, Marine Corps Base, Camp Lejeune, North Carolina. Both liquid and solid IDW were generated during remedial investigation activities. In addition, small quantities of IDW generated during field investigations associated with CTOs 0133, 0160, and 0177 were also disposed. The characterization and disposal of the IDW was performed in accordance with our recommendation letter dated May 19, 1994.

Disposal activities that occurred during the week of May 23, 1994 were:

- Approximately 40 cubic yards of non-hazardous IDW soil from Sites 1 and 28 were transported to Storage Lot 203 and graded onto the surface.
- Approximately two cubic yards of non-hazardous IDW soil from Sites 35 and 78 were graded onto the surface at Storage Lot 203.
- Two 55-gallon drums containing characteristically hazardous waste liquids were transported from Sites 6 and 41 by a licensed waste hauler to an offsite treatment storage and disposal facility (TSDF).
- A total of 6,154 gallons of non-hazardous waste liquids, generated during field investigations at Sites 1, 28, 30, and 41 were transported by a licensed waste hauler to an off-site TSDF.



A Total Quality Corporation

**Baker**

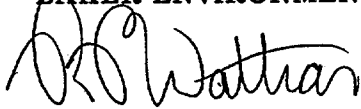
Ms. Linda Berry  
July 1, 1994  
Page 2

Table 1 provides the source site, actual quantity, and disposal method for each investigation-derived waste streams discussed. Copies of the hazardous and non-hazardous waste manifests associated with these activities are included with this letter as Attachment A.

If you have any questions regarding this submittal, please do not hesitate to contact me at (412) 269-2016.

Sincerely,

**BAKER ENVIRONMENTAL, INC.**



Raymond P. Wattras  
Activity Coordinator

Attachments

RPW/TFT/jc

cc: Ms. Katherine Landman, LANTDIV  
Mr. Neal Paul, Activity  
Ms. Beth Hacie, LANTDIV (w/o attachments)

**TABLE 1  
SUMMARY OF IDW AT MCB CAMP LEJEUNE**

| <b>Site Location</b> | <b>IDW Media</b> | <b>Actual Quantity</b> | <b>RCRA Characterization</b>                         | <b>Disposal</b>            |
|----------------------|------------------|------------------------|--|----------------------------|
| Site 41              | Liquid           | 250 Gallons            | Non-Hazardous  | Offsite TSDF               |
| Site 41              | Liquid           | 10 Gallons             | Hazardous by lead (D008) characteristic              | Offsite TSDF               |
| Site 1               | Soil             | 20 Cubic Yards         | Non-Hazardous  | Onsite disposal at Lot 203 |
| Site 28              | Soil             | 20 Cubic Yards         | Non-Hazardous  | Onsite disposal at Lot 203 |
| Sites 1, 28, 30      | Liquid           | 5,464 Gallons          | Non-Hazardous  | Offsite TSDF               |
| Site 6               | Liquid           | 55 Gallons             | Hazardous by trichloroethylene (D040) characteristic | Offsite TSDF               |
| Site 35              | Soil             | .5 Cubic Yard          | Non-Hazardous  | Onsite disposal at Lot 203 |
| Site 78              | Soil             | 1.5 Cubic Yard         | Non-Hazardous  | Onsite disposal at Lot 203 |
| Sites 1, 28, 30      | Liquid           | 440 Gallons            | Non-Hazardous  | Offsite TSDF               |

**Attachment A**  
**Manifests**

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# NORTH CAROLINA HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

|  |  |   |  |  |                                 |   |  |   |  |                 |  |           |  |
|--|--|---|--|--|---------------------------------|---|--|---|--|-----------------|--|-----------|--|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b>  |  | 1. Generator's US EPA ID No.<br><b>NC6170022580100815</b> |  | Manifest Document No.<br><b>010815</b> |                                 | 2. Page 1 of 1  |  | Information in the shaded areas is not required by Federal law. |  |                 |  |           |  |
| 3. Generator's Name and Mailing Address<br><b>MCB Camp Lejeune<br/>Attn: Neal Paul<br/>IR Division Bld. 67<br/>Camp Lejeune, NC 28542</b>  |  |   |  |  |                                 | A. State Manifest Document Number   |  |   |  |                 |  |           |  |
| 4. Generator's Phone ( <b>919</b> ) <b>451-1725</b>  |  |   |  |  |                                 | B. State Generator's ID   |  |   |  |                 |  |           |  |
| 5. Transporter 1 Company Name<br><b>Four Seasons Environmental, Inc.</b>   |  |   | 6. US EPA ID Number<br><b>NC D 9 9 1 2 7 7 3 2</b> |  |                                 | C. State Transporter's ID   |  |   |  |                 |  |           |  |
| 7. Transporter 2 Company Name  |  |   | 8. US EPA ID Number                                |  |                                 | D. Transporter's Phone <b>910-273-2718</b>  |  |   |  |                 |  |           |  |
| 9. Designated Facility Name and Site Address<br><b>Laidlaw Environmental Services, Inc.<br/>208 Watlington Industrial Road<br/>Reidsville, NC 27320</b>  |  |   |  |  |                                 | 10. US EPA ID Number<br><b>NC D 0 0 0 6 4 8 4 5 1</b>                             |  |   |  |                 |  |           |  |
| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   |  |   |  |  |                                 | 12. Containers  |  | 13. Total Quantity  |  | 14. Unit Wt/Vol |  | Waste No. |  |
| a. <del>Hazardous Waste Liquid, NOS, (lead), 9, NA3082-III</del><br><i>Thomas F. Trebilcock 5-25-94</i>  |  |   |  |  |                                 | 0 0 1 D M   |  |   |  | P               |  | D000      |  |
| b. <del>Hazardous Waste Liquid, NOS, (tetrachloroethylene), 9, NA3082, III</del><br><i>Thomas F. Trebilcock 5-25-94</i>  |  |   |  |  |                                 | 6 0 1 D M   |  |   |  | P               |  | D035      |  |
| c. Hazardous Waste Liquid, N.O.S., (Wastewater w/ Lead @ 11ppm), 9, NA3082, III  |  |   |  |  |                                 | 0 0 1 D M   |  | 0 0 0 5 1 0   |  | P               |  | D008      |  |
| d. Hazardous Waste Liquid, N.O.S., (Wastewater w/ Trichloroethylene @ 0.5 ppm), 9, NA3082, III   |  |   |  |  |                                 | 0 0 1 D M   |  | 0 9 5 1 5 0   |  | P               |  | D040      |  |
| Additional Descriptions for Materials Listed Above   |  |   |  |  |                                 | Handling Codes for Wastes Listed Above  |  |   |  |                 |  |           |  |
| 15. Special Handling Instructions and Additional Information<br><b>Bill to: FSE<br/>P.O. Box 16590<br/>Greensboro, NC 27418</b>  |  |   |  |  |                                 | <b>FSE Job #: 94-50094<br/>24 HR Emergency #: 910-273-2718<br/>HM Guide #: 31</b> |  |   |  |                 |  |           |  |
| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.<br><br>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. |  |   |  |  |                                 |   |  |   |  |                 |  |           |  |
| Printed/Typed Name<br><b>JOHN E. RIGGS</b>   |  |   |  |  | Signature<br><i>[Signature]</i> |   |  | Month Day Year<br><b>10 15 2 15 19 14</b>                       |  |                 |  |           |  |
| 17. Transporter 1 Acknowledgement of Receipt of Materials<br>Printed/Typed Name<br><b>CLAYTON HONEYCUTT</b>  |  |   |  |  | Signature<br><i>[Signature]</i> |   |  | Month Day Year<br><b>10 15 2 15 19 14</b>                       |  |                 |  |           |  |
| 18. Transporter 2 Acknowledgement of Receipt of Materials<br>Printed/Typed Name  |  |   |  |  | Signature                       |   |  | Month Day Year  |  |                 |  |           |  |
| 19. Discrepancy Indication Space   |  |   |  |  |                                 |   |  |   |  |                 |  |           |  |
| 20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.   |  |   |  |  |                                 |   |  |   |  |                 |  |           |  |
| Printed/Typed Name<br><b>Randy Lawson</b>  |  |   |  |  | Signature<br><i>[Signature]</i> |   |  | Month Day Year<br><b>10 15 2 17 19 14</b>                       |  |                 |  |           |  |



No 4080

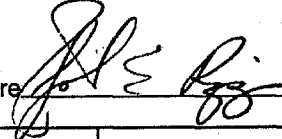
P.O. Box 16590 • Greensboro, NC 27416-0590 • (919) 273-2718

**NON-HAZARDOUS WASTE MANIFEST**

Manifest # **00012** F.S.I.S. JOB # **94-50094** Date: **May 25, 1994**  
Generator: **NCB Camp Lejeune** Phone No.: **919-451-1725**  
**IR Division - Bldg 67** EPA ID No.: **NC6170022580**  
**Camp Lejeune, NC 28542** Contact: **Neal Paul**

Process which generated waste: **Groundwater Assessment**

I certify that the materials described below are properly described, classified, packaged, marked & labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Date **May 25, 1994** Signature 

| Description of material          | Circle Form<br>Solid<br>Liquid<br>Gas<br>Sludge | Quantity     | Circle Units<br>Gallons<br>Cu. Yds.<br>Pounds<br>Tons | Container |           |
|----------------------------------|---|--------------|---|-----------|-----------|
|                                  |   |              |   | No.       | Type      |
| <b>Non-Regulated Groundwater</b> | <b>Liquid</b>                                   | <b>2,908</b> | <b>Gallons</b>  | <b>1</b>  | <b>TT</b> |

Transporter: **Four Seasons Environmental, Inc.** Unit Number(s) **916**  
**3107 S. Elm-Eugene Street** Phone No.: **910-273-2718**  
**Greensboro, NC 27406** EPA ID No.: **NCD999277732**

Vehicle License Tag Number(s) **2D-2394** Container: **various**

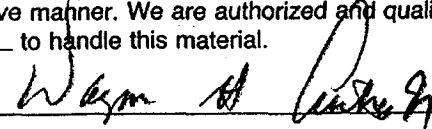
I certify that the specified material was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

Pick-up Driver's Signature **James Brown** Date **5-25-94** Delivering Driver's Signature **James Brown** Date **5-25-94**

Facility: **Four Seasons Environmental, Inc.** Phone No.: **910-273-2718**  
**519 Patton Avenue**  
**Greensboro, NC 27406** Contact: **Eric McManus**

Handling Method: **PT5032**

I certify that the transporter above delivered the specified material to this TSD facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of **NC** to handle this material.

Date **5-26-94** Signature: 





No. 4083  
X

P.O. Box 16590 • Greensboro, NC 27416-0590 • (919) 273-2718

## NON-HAZARDOUS WASTE MANIFEST

Manifest # **00013** F.S.I.S. JOB # **94-50094** Date: <sup>26</sup> **May 26, 1994**

Generator: **MCB Camp Lejeune** Phone No.: **910-451-1725**

**IR Division - Bldg. 67** EPA ID No.: **NC6170022580**

**Camp Lejeune, NC 28542** Contact: **Neal Paul**

Process which generated waste: **Groundwater assessment**

I certify that the materials described below are properly described, classified, packaged, marked & labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

*3196 - liquid  
50 - sludge*

Date **May 25, 1994** Signature *[Signature]*

| Description of material          | Circle Form<br>Solid<br>Liquid<br>Gas<br>Sludge | Quantity    | Circle Units<br>Gallons<br>Cu. Yds.<br>Pounds<br>Tons | Container |           |
|----------------------------------|---|-------------|---|-----------|-----------|
|                                  |   |             |   | No.       | Type      |
| <b>Non-Regulated Groundwater</b> | <input checked="" type="radio"/> Liquid         | <b>3246</b> | <input checked="" type="radio"/> Gallons              | <b>1</b>  | <b>TF</b> |

Transporter: **Four Seasons Environmental, Inc.** Unit Number(s) **B76 TH**

**3107 S. Elm-Eugene** Phone No.: **910-273-2718**

**Greensboro, Nc 27406** EPA ID No.: **NCD999277732**

Vehicle License Tag Number(s) \_\_\_\_\_ Container: \_\_\_\_\_

I certify that the specified material was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

Pick-up Driver's Signature *[Signature]* Date **5-26-94** Delivering Driver's Signature *[Signature]* Date **5-26-94**

Facility: **Four Seasons Environmental, Inc.** Phone No.: **910-273-2718**

**519 Patton Avenue**

**Greensboro, NC 27406** Contact: **Eric McManus**

Handling Method: **PT5041 PT5032**

I certify that the transporter above delivered the specified material to this TSD facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of NC to handle this material.

Date **5-26-94** Signature: *[Signature]*

**APPENDIX F**  
**FIELD DUPLICATE SUMMARIES**

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**SITE 1**

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SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 1-SD01-06 | 1-SD01-06D | 1-GW16-00 | 1-GW16-00D | 1-GW17-00 | 1-GW17-00D |
|-----------------------|-----------|------------|-----------|------------|-----------|------------|
| Laboratory Sample ID: | 940225-05 | 940225-06  | 940302-04 | 940302-05  | 940320-01 | 940320-02  |
| Date Sampled:         | 3/23/94   | 3/23/94    | 4/13/94   | 4/13/94    | 4/19/94   | 4/19/94    |

|           | UNITS |         |         |        |        |         |         |
|-----------|-------|---------|---------|--------|--------|---------|---------|
| Aluminum  | MG/KG | 2220    | 1900    | 2670   | 2590   | 1850    | 1770    |
| Antimony  | MG/KG | 7.4 UJ  | 7.1 UJ  | 6.8 U  | 7.4 U  | 7.2 UJ  | 6.8 UJ  |
| Arsenic   | MG/KG | 0.73    | 0.62 U  | 0.73   | 0.65 U | 1.2     | 0.60 U  |
| Barium    | MG/KG | 6.8     | 5.4     | 9.9    | 9.6    | 6.7     | 6.9     |
| Beryllium | MG/KG | 0.22 U  | 0.21 U  | 0.20 U | 0.22 U | 0.21 U  | 0.20 U  |
| Cadmium   | MG/KG | 1.6     | 1.6     | 2.0    | 1.3    | 0.63 U  | 0.60 U  |
| Calcium   | MG/KG | 8730 J  | 5470 J  | 5480   | 4440   | 40900 J | 45600 J |
| Chromium  | MG/KG | 7.8     | 5.5     | 5.7    | 3.5    | 5.9     | 5.4     |
| Cobalt    | MG/KG | 1.4 U   | 0.83 U  | 0.80 U | 0.87 U | 0.84 U  | 0.80 U  |
| Copper    | MG/KG | 10.0    | 3.6 U   | 4.9    | 3.7    | 2.7     | 2.4     |
| Iron      | MG/KG | 1600    | 887     | 1620   | 1830   | 1160    | 1750    |
| Lead      | MG/KG | 30.8    | 8.1     | 23.5   | 23.7   | 11.4    | 11.3    |
| Magnesium | MG/KG | 239     | 156     | 171    | 143    | 556     | 623     |
| Manganese | MG/KG | 5.5     | 5.6     | 8.9    | 10.0   | 11.4    | 14.8    |
| Mercury   | MG/KG | 0.05 U  | 0.05 U  | 0.05 U | 0.05 U | 0.05 U  | 0.05 U  |
| Nickel    | MG/KG | 3.9 U   | 2.5 U   | 1.4 U  | 1.5 U  | 3.0     | 2.5     |
| Potassium | MG/KG | 112 U   | 91.0 U  | 101 J  | 56.4 J | 106 J   | 105 J   |
| Selenium  | MG/KG | 0.86 UJ | 0.83 UJ | 0.80 U | 0.87 U | 0.84 UJ | 0.80 UJ |
| Silver    | MG/KG | 1.1 UJ  | 1.0 UJ  | 1.0 UJ | 1.1 UJ | 1.1 UJ  | 0.99 UJ |
| Sodium    | MG/KG | 52.7 U  | 36.0 U  | 41.4 U | 40.1 U | 138     | 182     |
| Thallium  | MG/KG | 0.86 U  | 0.83 U  | 0.80 U | 0.87 U | 0.84 U  | 0.80 U  |
| Vanadium  | MG/KG | 5.2     | 4.1     | 4.6    | 3.6    | 2.7     | 3.0     |
| Zinc      | MG/KG | 104 J   | 21.5 J  | 25.2   | 20.6   | 12.0    | 10.9    |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |           |            |           |            |           |            |
|-----------------------|-----------|------------|-----------|------------|-----------|------------|
| Client Sample ID:     | 1-SD01-06 | 1-SD01-06D | 1-GW16-00 | 1-GW16-00D | 1-GW17-00 | 1-GW17-00D |
| Laboratory Sample ID: | 940225-05 | 940225-06  | 940302-04 | 940302-05  | 940320-01 | 940320-02  |
| Date Sampled:         | 3/23/94   | 3/23/94    | 4/13/94   | 4/13/94    | 4/19/94   | 4/19/94    |

|                           | <u>UNITS</u> |      |      |      |      |      |      |
|---------------------------|--------------|------|------|------|------|------|------|
| <u>VOLATILES</u>          |              |      |      |      |      |      |      |
| Chloromethane             | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Bromomethane              | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Vinyl chloride            | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Chloroethane              | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Methylene chloride        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Acetone                   | UG/KG        | 12 U | 18 U | 11 U | 11 U | 11 U | 11 U |
| Carbon Disulfide          | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,1-Dichloroethene        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,1-Dichloroethane        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,2-Dichloroethene(total) | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Chloroform                | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,2-Dichloroethane        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 2-Butanone                | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,1,1-Trichloroethane     | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Carbon tetrachloride      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Bromodichloromethane      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,2-Dichloropropane       | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| cis-1,3-Dichloropropene   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Trichloroethene           | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Dibromochloromethane      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,1,2-Trichloroethane     | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Benzene                   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| trans-1,3-Dichloropropene | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Bromoform                 | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 4-Methyl-2-pentanone      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 2-Hexanone                | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Tetrachloroethene         | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 1,1,2,2-Tetrachloroethane | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Toluene                   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Chlorobenzene             | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Ethylbenzene              | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Styrene                   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Xylenes (total)           | UG/KG        | 12 U | 12 U | 11 U | 11 U | 11 U | 11 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |           |            |           |            |           |            |
|-----------------------|-----------|------------|-----------|------------|-----------|------------|
| Client Sample ID:     | 1-SD01-06 | 1-SD01-06D | 1-GW16-00 | 1-GW16-00D | 1-GW17-00 | 1-GW17-00D |
| Laboratory Sample ID: | 940225-05 | 940225-06  | 940302-04 | 940302-05  | 940320-01 | 940320-02  |
| Date Sampled:         | 3/23/94   | 3/23/94    | 4/13/94   | 4/13/94    | 4/19/94   | 4/19/94    |

|                               | <u>UNITS</u> |       |       |         |        |       |       |
|-------------------------------|--------------|-------|-------|---------|--------|-------|-------|
| <u>SEMIVOLATILES</u>          |              |       |       |         |        |       |       |
| Phenol                        | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| bis(2-Chloroethyl) ether      | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2-Chlorophenol                | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 1,3-Dichlorobenzene           | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 1,4-Dichlorobenzene           | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 1,2-Dichlorobenzene           | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2-Methylphenol                | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 4-Methylphenol                | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| N-Nitroso-di-n-propylamine    | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Hexachloroethane              | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Nitrobenzene                  | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Isophorone                    | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2-Nitrophenol                 | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2,4-Dimethylphenol            | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| bis(2-Chloroethoxy) methane   | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2,4-Dichlorophenol            | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 1,2,4-Trichlorobenzene        | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Naphthalene                   | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 4-Chloroaniline               | UG/KG        | 400 U | 400 U | 510 UJ  | 380 UJ | 340 U | 350 U |
| Hexachlorobutadiene           | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 4-Chloro-3-methylphenol       | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2-Methylnaphthalene           | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Hexachlorocyclopentadiene     | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2,4,6-Trichlorophenol         | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2,4,5-Trichlorophenol         | UG/KG        | 960 U | 980 U | 1200 U  | 930 U  | 830 U | 840 U |
| 2-Chloronaphthalene           | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2-Nitroaniline                | UG/KG        | 960 U | 980 U | 1200 U  | 930 U  | 830 U | 840 U |
| Dimethyl phthalate            | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Acenaphthylene                | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2,6-Dinitrotoluene            | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 3-Nitroaniline                | UG/KG        | 960 U | 980 U | 1200 UJ | 930 UJ | 830 U | 840 U |
| Acenaphthene                  | UG/KG        | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |           |            |           |            |           |            |
|-----------------------|-----------|------------|-----------|------------|-----------|------------|
| Client Sample ID:     | 1-SD01-06 | 1-SD01-06D | 1-GW16-00 | 1-GW16-00D | 1-GW17-00 | 1-GW17-00D |
| Laboratory Sample ID: | 940225-05 | 940225-06  | 940302-04 | 940302-05  | 940320-01 | 940320-02  |
| Date Sampled:         | 3/23/94   | 3/23/94    | 4/13/94   | 4/13/94    | 4/19/94   | 4/19/94    |

|                             | UNITS |       |       |         |        |       |       |
|-----------------------------|-------|-------|-------|---------|--------|-------|-------|
| <u>SEMIVOLATILES cont.</u>  |       |       |       |         |        |       |       |
| 2,4-Dinitrophenol           | UG/KG | 960 U | 980 U | 1200 UJ | 930 UJ | 830 U | 840 U |
| 4-Nitrophenol               | UG/KG | 960 U | 980 U | 1200 U  | 930 U  | 830 U | 840 U |
| Dibenzofuran                | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 2,4-Dinitrotoluene          | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Diethylphthalate            | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 4-Chlorophenyl phenyl ether | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Fluorene                    | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 4-Nitroaniline              | UG/KG | 960 U | 980 U | 1200 U  | 930 U  | 830 U | 840 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG | 960 U | 980 U | 1200 U  | 930 U  | 830 U | 840 U |
| N-nitrosodiphenylamine      | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 4-Bromophenyl-phenylether   | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Hexachlorobenzene           | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Pentachlorophenol           | UG/KG | 960 U | 980 U | 1200 U  | 930 U  | 830 U | 840 U |
| Phenanthrene                | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Anthracene                  | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Carbazole                   | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| di-n-Butylphthalate         | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Fluoranthene                | UG/KG | 1200  | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Pyrene                      | UG/KG | 880   | 400 U | 510 U   | 78 J   | 340 U | 350 U |
| Butyl benzyl phthalate      | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| 3,3'-Dichlorobenzidine      | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Benzo[a]anthracene          | UG/KG | 220 J | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Chrysene                    | UG/KG | 350 J | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG | 140 J | 810   | 77 J    | 70 J   | 350   | 350 U |
| di-n-Octylphthalate         | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Benzo[b]fluoranthene        | UG/KG | 110 J | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Benzo[k]fluoranthene        | UG/KG | 140 J | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Benzo[a]pyrene              | UG/KG | 78 J  | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Dibenz[a,h]anthracene       | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |
| Benzo[g,h,i]perylene        | UG/KG | 400 U | 400 U | 510 U   | 380 U  | 340 U | 350 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |           |            |           |            |           |            |
|-----------------------|-----------|------------|-----------|------------|-----------|------------|
| Client Sample ID:     | 1-SD01-06 | 1-SD01-06D | 1-GW16-00 | 1-GW16-00D | 1-GW17-00 | 1-GW17-00D |
| Laboratory Sample ID: | 940225-05 | 940225-06  | 940302-04 | 940302-05  | 940320-01 | 940320-02  |
| Date Sampled:         | 3/23/94   | 3/23/94    | 4/13/94   | 4/13/94    | 4/19/94   | 4/19/94    |

|                        | <u>UNITS</u> |        |        |        |        |       |       |
|------------------------|--------------|--------|--------|--------|--------|-------|-------|
| <u>PESTICIDES/PCBs</u> |              |        |        |        |        |       |       |
| alpha-BHC              | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| beta-BHC               | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| delta-BHC              | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| Lindane (gamma-BHC)    | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| Heptachlor             | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| Aldrin                 | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| Heptachlor epoxide     | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| Endosulfan I           | UG/KG        | 2.0 UJ | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| Dieldrin               | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 4.3 J | 3.4 J |
| 4,4'-DDE               | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 4.9   | 3.1 J |
| Endrin                 | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 3.4 U | 3.4 U |
| Endosulfan II          | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 3.4 U | 3.4 U |
| 4,4'-DDD               | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 3.4 U | 3.4 U |
| Endosulfan sulfate     | UG/KG        | 19 NJ  | 4.0 UJ | 5.1 UJ | 3.8 UJ | 3.4 U | 3.4 U |
| 4,4'-DDT               | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 7.0 J | 3.1 J |
| Methoxychlor           | UG/KG        | 20 UJ  | 21 UJ  | 26 UJ  | 20 UJ  | 18 U  | 18 U  |
| Endrin ketone          | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 3.4 U | 3.4 U |
| Endrin aldehyde        | UG/KG        | 3.9 UJ | 4.0 UJ | 5.1 UJ | 3.8 UJ | 3.4 U | 3.4 U |
| alpha-Chlordane        | UG/KG        | 1.9 J  | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| gamma-Chlordane        | UG/KG        | 1.5 J  | 2.1 UJ | 2.6 UJ | 2.0 UJ | 1.8 U | 1.8 U |
| Toxaphene              | UG/KG        | 200 UJ | 210 UJ | 260 UJ | 200 UJ | 180 U | 180 U |
| Aroclor 1016           | UG/KG        | 39 UJ  | 40 UJ  | 51 UJ  | 38 UJ  | 34 U  | 34 U  |
| Aroclor 1221           | UG/KG        | 80 UJ  | 82 UJ  | 100 UJ | 78 UJ  | 69 U  | 69 U  |
| Aroclor 1232           | UG/KG        | 39 UJ  | 40 UJ  | 51 UJ  | 38 UJ  | 34 U  | 34 U  |
| Aroclor 1242           | UG/KG        | 39 UJ  | 40 UJ  | 51 UJ  | 38 UJ  | 34 U  | 34 U  |
| Aroclor 1248           | UG/KG        | 39 UJ  | 40 UJ  | 51 UJ  | 38 UJ  | 34 U  | 34 U  |
| Aroclor 1254           | UG/KG        | 39 UJ  | 40 UJ  | 51 UJ  | 38 UJ  | 34 U  | 34 U  |
| Aroclor 1260           | UG/KG        | 39 UJ  | 40 UJ  | 51 UJ  | 38 UJ  | 34 U  | 34 U  |



SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 1-S-SB08-01 | 1-S-SB08-01D | 1-S-SB08-07 | 1-S-SB08-07D | 1-S-SB14-01 | 1-S-SB14-01D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-02   | 940280-03    | 940280-05   | 940280-06    | 940280-16   | 940280-17    |
| Date Sampled:         | 4/5/94      | 4/5/94       | 4/5/94      | 4/5/94       | 4/6/94      | 4/6/94       |

|           | UNITS | 6710    | 6130   | 4190   | 3680    | 1710    | 1890    |
|-----------|-------|---------|--------|--------|---------|---------|---------|
| Aluminum  | MG/KG | 6710    | 6130   | 4190   | 3680    | 1710    | 1890    |
| Antimony  | MG/KG | 6.3 UJ  | 7.0 UJ | 6.9 UJ | 6.6 UJ  | 5.7 UJ  | 5.0 UJ  |
| Arsenic   | MG/KG | 1.0     | 0.61 U | 0.61 U | 0.59 U  | 0.50 U  | 0.44 U  |
| Barium    | MG/KG | 16.9    | 14.7   | 5.1    | 4.4     | 10.3    | 10.6    |
| Beryllium | MG/KG | 0.18 U  | 0.20 U | 0.20 U | 0.20 U  | 0.17 U  | 0.15 U  |
| Cadmium   | MG/KG | 0.55 U  | 0.61 U | 0.61 U | 0.59 U  | 0.50 U  | 0.44 U  |
| Calcium   | MG/KG | 736 U   | 687 U  | 58.3 U | 45.7 U  | 2810    | 14200   |
| Chromium  | MG/KG | 6.5     | 5.7    | 8.8    | 5.4     | 2.0     | 2.9     |
| Cobalt    | MG/KG | 0.74 U  | 0.82 U | 0.81 U | 0.78 U  | 0.67 U  | 0.59 U  |
| Copper    | MG/KG | 2.1 U   | 1.6 U  | 1.7 U  | 3.8 U   | 1.5 U   | 1.6 U   |
| Iron      | MG/KG | 2990    | 2790   | 857    | 478     | 615     | 671     |
| Lead      | MG/KG | 4.7 J   | 4.1 J  | 3.9 J  | 4.1 J   | 6.1 J   | 6.5 J   |
| Magnesium | MG/KG | 208     | 182    | 68.0   | 37.9    | 87.1    | 260     |
| Manganese | MG/KG | 10.8    | 10.0   | 4.5    | 2.5     | 6.2     | 6.3     |
| Mercury   | MG/KG | 0.05 U  | 0.05 U | 0.05 U | 0.05 U  | 0.05 U  | 0.05 U  |
| Nickel    | MG/KG | 2.9 U   | 1.4 U  | 2.1 U  | 1.4 U   | 1.2 U   | 1.0 U   |
| Potassium | MG/KG | 156 U   | 156 U  | 163 U  | 82.6 U  | 75.2 U  | 73.6 U  |
| Selenium  | MG/KG | 0.74 U  | 0.82 U | 0.81 U | 0.78 U  | 0.67 U  | 0.59 U  |
| Silver    | MG/KG | 0.92 UJ | 1.0 UJ | 1.0 UJ | 0.98 UJ | 0.83 UJ | 0.74 UJ |
| Sodium    | MG/KG | 28.3 U  | 22.2 U | 32.5 U | 21.6 U  | 29.5 U  | 37.8 U  |
| Thallium  | MG/KG | 0.74 U  | 0.82 U | 0.81 U | 0.78 U  | 0.67 U  | 0.59 U  |
| Vanadium  | MG/KG | 9.5     | 8.7    | 3.0    | 1.6     | 2.5     | 3.0     |
| Zinc      | MG/KG | 1.5     | 2.0    | 1.2    | 0.65    | 3.2     | 3.3     |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 1-S-SB14-06 | 1-S-SB14-06D | 1-N-SB22-01 | 1-N-SB22-01D | 1-N-SB22-06 | 1-N-SB22-06D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-19   | 940280-20    | 940272-10   | 940272-11    | 940279-01   | 940279-02    |
| Date Sampled:         | 4/6/94      | 4/6/94       | 4/5/94      | 4/6/94       | 4/5/94      | 4/5/94       |

|           | UNITS |         |         |         |         |         |         |
|-----------|-------|---------|---------|---------|---------|---------|---------|
| Aluminum  | MG/KG | 3620    | 5020    | 4980    | 5560    | 2180    | 1280    |
| Antimony  | MG/KG | 5.4 UJ  | 6.6 UJ  | 6.8 UJ  | 6.6 UJ  | 6.8 UJ  | 6.4 UJ  |
| Arsenic   | MG/KG | 1.5     | 2.8     | 0.73 J  | 0.97 J  | 0.60 U  | 0.57 U  |
| Barium    | MG/KG | 8.0     | 10.1    | 8.2     | 8.7     | 3.5     | 1.9     |
| Beryllium | MG/KG | 0.16 U  | 0.20 U  | 0.20 U  | 0.20 U  | 0.20 U  | 0.19 U  |
| Cadmium   | MG/KG | 0.48 U  | 0.59 U  | 0.60 U  | 0.58 U  | 0.60 U  | 0.57 U  |
| Calcium   | MG/KG | 21500   | 16400   | 1200 J  | 2020 J  | 226 J   | 43.6 UJ |
| Chromium  | MG/KG | 6.2     | 7.2     | 5.8 J   | 7.7 J   | 3.7     | 2.4     |
| Cobalt    | MG/KG | 0.63 U  | 0.78 U  | 0.80 UJ | 0.78 UJ | 0.80 U  | 0.75 U  |
| Copper    | MG/KG | 1.8 U   | 4.1 U   | 1.6     | 1.3     | 1.2 U   | 1.1 U   |
| Iron      | MG/KG | 2060    | 2860    | 2870    | 3630    | 484     | 313     |
| Lead      | MG/KG | 5.1 J   | 4.4 J   | 5.4 J   | 8.0 J   | 2.2     | 5.0     |
| Magnesium | MG/KG | 504     | 493     | 130     | 134     | 67.6    | 40.2    |
| Manganese | MG/KG | 23.5    | 20.0    | 5.5 J   | 4.9 J   | 2.6 J   | 1.4 J   |
| Mercury   | MG/KG | 0.04 U  | 0.04 U  | 0.06 U  | 0.05 U  | 0.05 U  | 0.05 U  |
| Nickel    | MG/KG | 1.1 U   | 2.5 U   | 1.9 J   | 1.4 UJ  | 1.4 U   | 1.3 U   |
| Potassium | MG/KG | 235 U   | 365 J   | 136 J   | 155 J   | 101 J   | 57.6 J  |
| Selenium  | MG/KG | 0.63 U  | 0.78 U  | 0.80 UJ | 0.78 UJ | 0.80 UJ | 0.75 UJ |
| Silver    | MG/KG | 0.79 UJ | 0.98 UJ | 1.0 UJ  | 0.97 UJ | 1.0 UJ  | 0.94 UJ |
| Sodium    | MG/KG | 38.3 U  | 62.3 U  | 21.0 U  | 42.0 U  | 12.4    | 22.9    |
| Thallium  | MG/KG | 0.63 U  | 0.78 U  | 0.80 U  | 0.78 U  | 0.80 U  | 0.75 U  |
| Vanadium  | MG/KG | 8.3     | 10.5    | 8.7     | 9.7     | 5.1     | 4.2     |
| Zinc      | MG/KG | 1.6     | 3.4     | 3.2 J   | 3.7 J   | 1.1 J   | 0.57 UJ |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |             |              |             |              |           |            |
|-----------------------|-------------|--------------|-------------|--------------|-----------|------------|
| Client Sample ID:     | 1-N-SB26-01 | 1-N-SB26-01D | 1-N-SB26-04 | 1-N-SB26-04D | 1-GW17-05 | 1-GW17-05D |
| Laboratory Sample ID: | 940260-10   | 940260-11    | 940260-12   | 940260-13    | 940320-03 | 940320-04  |
| Date Sampled:         | 3/29/94     | 3/29/94      | 3/29/94     | 3/29/94      | 4/19/94   | 4/19/94    |

|           | <u>UNITS</u> |         |         |         |         |         |         |
|-----------|--------------|---------|---------|---------|---------|---------|---------|
| Aluminum  | MG/KG        | 3310    | 3800    | 6480    | 4360    | 1870    | 2100    |
| Antimony  | MG/KG        | 5.7 UJ  | 7.1 UJ  | 6.1 UJ  | 6.3 UJ  | 6.5 UJ  | 7.7 UJ  |
| Arsenic   | MG/KG        | 0.50 U  | 0.62 U  | 0.65    | 0.56 U  | 0.79    | 0.68 U  |
| Barium    | MG/KG        | 13.2    | 14.1    | 13.7    | 10.6    | 8.1     | 4.3     |
| Beryllium | MG/KG        | 0.17 U  | 0.21 U  | 0.18 U  | 0.19 U  | 0.19 U  | 0.23 U  |
| Cadmium   | MG/KG        | 0.50 U  | 0.62 U  | 0.53 U  | 0.56 U  | 0.57 U  | 0.68 U  |
| Calcium   | MG/KG        | 36400 J | 18400 J | 298 J   | 217 J   | 35900 J | 403 J   |
| Chromium  | MG/KG        | 9.7 J   | 9.2 J   | 6.7 J   | 5.6 J   | 6.6     | 2.1     |
| Cobalt    | MG/KG        | 0.67 UJ | 0.83 UJ | 0.71 UJ | 0.75 UJ | 0.76 U  | 0.90 U  |
| Copper    | MG/KG        | 5.0     | 5.1     | 1.4     | 1.1 U   | 3.9     | 1.4 U   |
| Iron      | MG/KG        | 1740    | 2100    | 1850    | 1260    | 1620    | 610     |
| Lead      | MG/KG        | 60.4 J  | 70.0 J  | 3.9 J   | 3.5 J   | 14.5    | 2.0     |
| Magnesium | MG/KG        | 633     | 396     | 183     | 129     | 602     | 39.3    |
| Manganese | MG/KG        | 17.1 J  | 20.9 J  | 5.3 J   | 4.9 J   | 18.4    | 3.0     |
| Mercury   | MG/KG        | 0.05 U  | 0.05 U  | 0.05 U  | 0.05 U  | 0.04 U  | 0.05 U  |
| Nickel    | MG/KG        | 1.3     | 1.5 U   | 1.2 U   | 1.3 U   | 2.6     | 1.6 U   |
| Potassium | MG/KG        | 131 J   | 106 J   | 250 J   | 185 J   | 102 J   | 53.5 U  |
| Selenium  | MG/KG        | 0.67 UJ | 0.83 UJ | 0.71 UJ | 0.75 UJ | 0.76 UJ | 0.90 UJ |
| Silver    | MG/KG        | 0.84 UJ | 1.0 UJ  | 0.89 UJ | 0.93 UJ | 0.95 UJ | 1.1 UJ  |
| Sodium    | MG/KG        | 98.4 U  | 57.9 U  | 23.7 U  | 16.8 U  | 97.3 U  | 20.7 U  |
| Thallium  | MG/KG        | 0.67 U  | 0.83 U  | 0.71 U  | 0.75 U  | 0.76 U  | 0.90 U  |
| Vanadium  | MG/KG        | 5.1     | 5.2     | 10.2    | 7.6     | 2.8     | 2.0     |
| Zinc      | MG/KG        | 40.9 J  | 53.5 J  | 3.9 UJ  | 3.2 UJ  | 15.0    | 1.1 U   |

**SITE 1**  
**FRENCH CREEK LIQUID DISPOSAL AREA**  
**SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION CTO-19231**  
**MCB CAMP LEJEUNE, NORTH CAROLINA**  
**TCL ORGANICS**

| Client Sample ID:     | 1-S-SB08-01 | 1-S-SB08-01D | 1-S-SB08-07 | 1-S-SB08-07D | 1-S-SB14-01 | 1-S-SB14-01D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-02   | 940280-03    | 940280-05   | 940280-06    | 940280-16   | 940280-17    |
| Date Sampled:         | 4/5/94      | 4/5/94       | 4/5/94      | 4/5/94       | 4/6/94      | 4/6/94       |

|                           | UNITS |      |      |      |      |      |      |
|---------------------------|-------|------|------|------|------|------|------|
| <b><u>VOLATILES</u></b>   |       |      |      |      |      |      |      |
| Chloromethane             | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Bromomethane              | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Vinyl chloride            | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Chloroethane              | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Methylene chloride        | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Acetone                   | UG/KG | 30   | 32   | 12 U | 12 U | 11 U | 10 U |
| Carbon Disulfide          | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,1-Dichloroethene        | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,1-Dichloroethane        | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,2-Dichloroethene(total) | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Chloroform                | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,2-Dichloroethane        | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 2-Butanone                | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,1,1-Trichloroethane     | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Carbon tetrachloride      | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Bromodichloromethane      | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,2-Dichloropropane       | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| cis-1,3-Dichloropropene   | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Trichloroethene           | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Dibromochloromethane      | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,1,2-Trichloroethane     | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Benzene                   | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| trans-1,3-Dichloropropene | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Bromoform                 | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 4-Methyl-2-pentanone      | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 2-Hexanone                | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Tetrachloroethene         | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Toluene                   | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Chlorobenzene             | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Ethylbenzene              | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Styrene                   | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |
| Xylenes (total)           | UG/KG | 11 U | 11 U | 12 U | 12 U | 11 U | 10 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |             |              |             |              |             |              |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Client Sample ID:     | 1-S-SB08-01 | 1-S-SB08-01D | 1-S-SB08-07 | 1-S-SB08-07D | 1-S-SB14-01 | 1-S-SB14-01D |
| Laboratory Sample ID: | 940280-02   | 940280-03    | 940280-05   | 940280-06    | 940280-16   | 940280-17    |
| Date Sampled:         | 4/5/94      | 4/5/94       | 4/5/94      | 4/5/94       | 4/6/94      | 4/6/94       |

|                               | UNITS |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| <b>SEMIVOLATILES</b>          |       |       |       |       |       |       |       |
| Phenol                        | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| bis(2-Chloroethyl) ether      | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2-Chlorophenol                | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 1,3-Dichlorobenzene           | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 1,4-Dichlorobenzene           | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 1,2-Dichlorobenzene           | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2-Methylphenol                | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 4-Methylphenol                | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| N-Nitroso-di-n-propylamine    | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| Hexachloroethane              | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| Nitrobenzene                  | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| Isophorone                    | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2-Nitrophenol                 | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2,4-Dimethylphenol            | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| bis(2-Chloroethoxy) methane   | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2,4-Dichlorophenol            | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 1,2,4-Trichlorobenzene        | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| Naphthalene                   | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 4-Chloroaniline               | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| Hexachlorobutadiene           | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 4-Chloro-3-methylphenol       | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2-Methylnaphthalene           | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| Hexachlorocyclopentadiene     | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2,4,6-Trichlorophenol         | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2,4,5-Trichlorophenol         | UG/KG | 930 U | 900 U | 820 U | 950 U | 890 U | 880 U |
| 2-Chloronaphthalene           | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2-Nitroaniline                | UG/KG | 930 U | 900 U | 820 U | 950 U | 890 U | 880 U |
| Dimethyl phthalate            | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| Acenaphthylene                | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 2,6-Dinitrotoluene            | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |
| 3-Nitroaniline                | UG/KG | 930 U | 900 U | 820 U | 950 U | 890 U | 880 U |
| Acenaphthene                  | UG/KG | 380 U | 370 U | 340 U | 390 U | 370 U | 360 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-S-SB08-01 | 1-S-SB08-01D | 1-S-SB08-07 | 1-S-SB08-07D | 1-S-SB14-01 | 1-S-SB14-01D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-02   | 940280-03    | 940280-05   | 940280-06    | 940280-16   | 940280-17    |
| Date Sampled:         | 4/5/94      | 4/5/94       | 4/5/94      | 4/5/94       | 4/6/94      | 4/6/94       |

|                             | UNITS |        |        |        |        |        |       |
|-----------------------------|-------|--------|--------|--------|--------|--------|-------|
| <u>SEMIVOLATILES Cont.</u>  |       |        |        |        |        |        |       |
| 2,4-Dinitrophenol           | UG/KG | 930 U  | 900 U  | 820 U  | 950 U  | 890 U  | 880 U |
| 4-Nitrophenol               | UG/KG | 930 U  | 900 U  | 820 U  | 950 U  | 890 U  | 880 U |
| Dibenzofuran                | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| 2,4-Dinitrotoluene          | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Diethylphthalate            | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| 4-Chlorophenyl phenyl ether | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Fluorene                    | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| 4-Nitroaniline              | UG/KG | 930 UJ | 900 UJ | 820 UJ | 950 UJ | 890 UJ | 880 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG | 930 U  | 900 U  | 820 U  | 950 U  | 890 U  | 880 U |
| N-nitrosodiphenylamine      | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| 4-Bromophenyl-phenylether   | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Hexachlorobenzene           | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Pentachlorophenol           | UG/KG | 930 U  | 900 U  | 820 U  | 950 U  | 890 U  | 880 U |
| Phenanthrene                | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Anthracene                  | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Carbazole                   | UG/KG | 380 UJ | 370 UJ | 340 UJ | 390 UJ | 370 UJ | 360 U |
| di-n-Butylphthalate         | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Fluoranthene                | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Pyrene                      | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Butyl benzyl phthalate      | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| 3,3'-Dichlorobenzidine      | UG/KG | 380 UJ | 370 UJ | 340 UJ | 390 UJ | 370 UJ | 360 U |
| Benzo[a]anthracene          | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| Chrysene                    | UG/KG | 380 U  | 370 U  | 340 U  | 390 U  | 370 U  | 360 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG | 710    | 56 J   | 92 J   | 52 J   | 49 J   | 610   |
| di-n-Octylphthalate         | UG/KG | 380 U  | 370 U  | 390 UJ | 390 U  | 370 U  | 360 U |
| Benzo[b]fluoranthene        | UG/KG | 380 U  | 370 U  | 390 UJ | 390 U  | 370 U  | 360 U |
| Benzo[k]fluoranthene        | UG/KG | 380 U  | 370 U  | 390 UJ | 390 U  | 370 U  | 360 U |
| Benzo[a]pyrene              | UG/KG | 380 U  | 370 U  | 390 UJ | 390 U  | 370 U  | 360 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG | 380 U  | 370 U  | 390 UJ | 390 U  | 370 U  | 360 U |
| Dibenz[a,h]anthracene       | UG/KG | 380 U  | 370 U  | 390 UJ | 390 U  | 370 U  | 360 U |
| Benzo[g,h,i]perylene        | UG/KG | 380 U  | 370 U  | 390 UJ | 390 U  | 370 U  | 360 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |             |              |             |              |             |              |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Client Sample ID:     | 1-S-SB08-01 | 1-S-SB08-01D | 1-S-SB08-07 | 1-S-SB08-07D | 1-S-SB14-01 | 1-S-SB14-01D |
| Laboratory Sample ID: | 940280-02   | 940280-03    | 940280-05   | 940280-06    | 940280-16   | 940280-17    |
| Date Sampled:         | 4/5/94      | 4/5/94       | 4/5/94      | 4/5/94       | 4/6/94      | 4/6/94       |

|                     | UNITS |        |        |        |       |        |       |
|---------------------|-------|--------|--------|--------|-------|--------|-------|
| PESTICIDES/PCBs     |       |        |        |        |       |        |       |
| alpha-BHC           | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| beta-BHC            | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| delta-BHC           | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| Lindane (gamma-BHC) | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| Heptachlor          | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| Aldrin              | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| Heptachlor epoxide  | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| Endosulfan I        | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| Dieldrin            | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| 4,4'-DDE            | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| Endrin              | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| Endosulfan II       | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| 4,4'-DDD            | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| Endosulfan sulfate  | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| 4,4'-DDT            | UG/KG | 1.6 J  | 5.2 J  | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| Methoxychlor        | UG/KG | 20 UJ  | 19 UJ  | 17 UJ  | 20 R  | 19 UJ  | 19 U  |
| Endrin ketone       | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| Endrin aldehyde     | UG/KG | 3.8 UJ | 3.7 UJ | 3.4 UJ | 3.9 R | 3.7 UJ | 3.6 U |
| alpha-Chlordane     | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| gamma-Chlordane     | UG/KG | 2.0 UJ | 1.9 UJ | 1.7 UJ | 2.0 R | 1.9 UJ | 1.9 U |
| Toxaphene           | UG/KG | 200 UJ | 190 UJ | 170 UJ | 200 R | 190 UJ | 190 U |
| Aroclor 1016        | UG/KG | 36 UJ  | 37 UJ  | 34 UJ  | 39 R  | 37 UJ  | 36 U  |
| Aroclor 1221        | UG/KG | 78 UJ  | 76 UJ  | 69 UJ  | 80 R  | 74 UJ  | 74 U  |
| Aroclor 1232        | UG/KG | 38 UJ  | 37 UJ  | 39 UJ  | 39 R  | 37 UJ  | 36 U  |
| Aroclor 1242        | UG/KG | 38 UJ  | 37 UJ  | 39 UJ  | 39 R  | 37 UJ  | 36 U  |
| Aroclor 1248        | UG/KG | 38 UJ  | 37 UJ  | 39 UJ  | 39 R  | 37 UJ  | 36 U  |
| Aroclor 1254        | UG/KG | 38 UJ  | 37 UJ  | 39 UJ  | 39 R  | 37 UJ  | 36 U  |
| Aroclor 1260        | UG/KG | 38 UJ  | 37 UJ  | 39 UJ  | 39 R  | 37 UJ  | 36 U  |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-S-SB14-06 | 1-S-SB14-06D | 1-N-SB22-01 | 1-N-SB22-01D | 1-N-SB22-06 | 1-N-SB22-06D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-19   | 940280-20    | 940272-10   | 940272-11    | 940279-01   | 940279-02    |
| Date Sampled:         | 4/6/94      | 4/6/94       | 4/5/94      | 4/6/94       | 4/5/94      | 4/5/94       |

|                           | UNITS |      |      |      |       |      |
|---------------------------|-------|------|------|------|-------|------|
| <u>VOLATILES</u>          |       |      |      |      |       |      |
| Chloromethane             | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Bromomethane              | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Vinyl chloride            | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Chloroethane              | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Methylene chloride        | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Acetone                   | UG/KG | 11 U | 11 U | 70 U | 110 U | 9 J  |
| Carbon Disulfide          | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,1-Dichloroethene        | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,1-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,2-Dichloroethene(total) | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Chloroform                | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,2-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 2-Butanone                | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,1,1-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Carbon tetrachloride      | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Bromodichloromethane      | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,2-Dichloropropane       | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| cis-1,3-Dichloropropene   | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Trichloroethene           | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Dibromochloromethane      | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,1,2-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Benzene                   | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| trans-1,3-Dichloropropene | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Bromoform                 | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 4-Methyl-2-pentanone      | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 2-Hexanone                | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Tetrachloroethene         | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| 1,1,2,2-Tetrachloroethane | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Toluene                   | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Chlorobenzene             | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Ethylbenzene              | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Styrene                   | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |
| Xylenes (total)           | UG/KG | 11 U | 11 U | 11 U | 11 U  | 11 U |



SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-S-SB14-06 | 1-S-SB14-06D | 1-N-SB22-01 | 1-N-SB22-01D | 1-N-SB22-06 | 1-N-SB22-06D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-19   | 940280-20    | 940272-10   | 940272-11    | 940279-01   | 940279-02    |
| Date Sampled:         | 4/6/94      | 4/6/94       | 4/5/94      | 4/6/94       | 4/5/94      | 4/5/94       |

|                               | UNITS |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| <u>SEMIVOLATILES</u>          |       |       |       |       |       |       |       |
| Phenol                        | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| bis(2-Chloroethyl) ether      | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2-Chlorophenol                | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 1,3-Dichlorobenzene           | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 1,4-Dichlorobenzene           | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 1,2-Dichlorobenzene           | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2-Methylphenol                | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 4-Methylphenol                | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| N-Nitroso-di-n-propylamine    | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| Hexachloroethane              | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| Nitrobenzene                  | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| Isophorone                    | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2-Nitrophenol                 | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2,4-Dimethylphenol            | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| bis(2-Chloroethoxy) methane   | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2,4-Dichlorophenol            | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 1,2,4-Trichlorobenzene        | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| Naphthalene                   | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 4-Chloroaniline               | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| Hexachlorobutadiene           | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 4-Chloro-3-methylphenol       | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2-Methylnaphthalene           | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| Hexachlorocyclopentadiene     | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2,4,6-Trichlorophenol         | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2,4,5-Trichlorophenol         | UG/KG | 930 U | 950 U | 940 U | 920 U | 880 U | 840 U |
| 2-Chloronaphthalene           | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2-Nitroaniline                | UG/KG | 930 U | 950 U | 940 U | 920 U | 880 U | 840 U |
| Dimethyl phthalate            | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| Acenaphthylene                | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 2,6-Dinitrotoluene            | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |
| 3-Nitroaniline                | UG/KG | 930 U | 950 U | 940 U | 920 U | 880 U | 840 U |
| Acenaphthene                  | UG/KG | 380 U | 390 U | 390 U | 380 U | 360 U | 350 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-S-SB14-06 | 1-S-SB14-06D | 1-N-SB22-01 | 1-N-SB22-01D | 1-N-SB22-06 | 1-N-SB22-06D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-19   | 940280-20    | 940272-10   | 940272-11    | 940279-01   | 940279-02    |
| Date Sampled:         | 4/6/94      | 4/6/94       | 4/5/94      | 4/6/94       | 4/5/94      | 4/5/94       |

|                             | <u>UNITS</u> |       |        |       |       |        |        |
|-----------------------------|--------------|-------|--------|-------|-------|--------|--------|
| <u>SEMIVOLATILES Cont.</u>  |              |       |        |       |       |        |        |
| 2,4-Dinitrophenol           | UG/KG        | 930 U | 950 U  | 940 U | 920 U | 880 U  | 840 U  |
| 4-Nitrophenol               | UG/KG        | 930 U | 950 U  | 940 U | 920 U | 880 U  | 840 U  |
| Dibenzofuran                | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| 2,4-Dinitrotoluene          | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Diethylphthalate            | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| 4-Chlorophenyl phenyl ether | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Fluorene                    | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| 4-Nitroaniline              | UG/KG        | 930 U | 950 U  | 940 U | 920 U | 880 UJ | 840 UJ |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 930 U | 950 U  | 940 U | 920 U | 880 U  | 840 U  |
| N-nitrosodiphenylamine      | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| 4-Bromophenyl-phenylether   | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Hexachlorobenzene           | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Pentachlorophenol           | UG/KG        | 930 U | 950 U  | 940 U | 920 U | 880 U  | 840 U  |
| Phenanthrene                | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Anthracene                  | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Carbazole                   | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| di-n-Butylphthalate         | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Fluoranthene                | UG/KG        | 380 U | 390 U  | 390 U | 380 U | 360 U  | 350 U  |
| Pyrene                      | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Butyl benzyl phthalate      | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| 3,3'-Dichlorobenzidine      | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Benzo[a]anthracene          | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Chrysene                    | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| di-n-Octylphthalate         | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Benzo[b]fluoranthene        | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Benzo[k]fluoranthene        | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Benzo[a]pyrene              | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Dibenz[a,h]anthracene       | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |
| Benzo[g,h,i]perylene        | UG/KG        | 380 U | 390 UJ | 390 U | 380 U | 360 U  | 350 U  |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-S-SB14-06 | 1-S-SB14-06D | 1-N-SB22-01 | 1-N-SB22-01D | 1-N-SB22-06 | 1-N-SB22-06D |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Laboratory Sample ID: | 940280-19   | 940280-20    | 940272-10   | 940272-11    | 940279-01   | 940279-02    |
| Date Sampled:         | 4/6/94      | 4/6/94       | 4/5/94      | 4/6/94       | 4/5/94      | 4/5/94       |

|                        | UNITS |       |       |        |       |        |        |
|------------------------|-------|-------|-------|--------|-------|--------|--------|
| <u>PESTICIDES/PCBs</u> |       |       |       |        |       |        |        |
| alpha-BHC              | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| beta-BHC               | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| delta-BHC              | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| Lindane (gamma-BHC)    | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| Heptachlor             | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| Aldrin                 | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| Heptachlor epoxide     | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| Endosulfan I           | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| Dieldrin               | UG/KG | 3.8 U | 3.9 U | 3.9 UJ | 3.8 U | 3.6 UJ | 3.5 UJ |
| 4,4'-DDE               | UG/KG | 3.8 U | 3.9 U | 3.9 UJ | 3.8 U | 3.6 UJ | 3.5 UJ |
| Endrin                 | UG/KG | 3.8 U | 3.9 U | 3.9 UJ | 3.8 U | 3.6 UJ | 3.5 UJ |
| Endosulfan II          | UG/KG | 3.8 U | 3.9 U | 3.9 UJ | 3.8 U | 3.6 UJ | 3.5 UJ |
| 4,4'-DDD               | UG/KG | 3.8 U | 3.9 U | 2.2 J  | 3.8 U | 3.6 UJ | 3.5 UJ |
| Endosulfan sulfate     | UG/KG | 3.8 U | 3.9 U | 3.9 UJ | 3.8 U | 3.6 UJ | 3.5 UJ |
| 4,4'-DDT               | UG/KG | 3.8 U | 3.9 U | 12 J   | 3.8 U | 3.6 UJ | 3.5 UJ |
| Methoxychlor           | UG/KG | 20 U  | 20 U  | 20 UJ  | 20 U  | 19 UJ  | 18 UJ  |
| Endrin ketone          | UG/KG | 3.8 U | 3.9 U | 3.9 UJ | 3.8 U | 3.6 UJ | 3.5 UJ |
| Endrin aldehyde        | UG/KG | 3.8 U | 3.9 U | 3.9 UJ | 3.8 U | 3.6 UJ | 3.5 UJ |
| alpha-Chlordane        | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| gamma-Chlordane        | UG/KG | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 1.9 UJ | 1.8 UJ |
| Toxaphene              | UG/KG | 200 U | 200 U | 200 UJ | 200 U | 190 UJ | 180 UJ |
| Aroclor 1016           | UG/KG | 38 U  | 39 U  | 39 UJ  | 38 U  | 36 UJ  | 35 UJ  |
| Aroclor 1221           | UG/KG | 78 U  | 80 U  | 78 UJ  | 77 U  | 73 UJ  | 70 UJ  |
| Aroclor 1232           | UG/KG | 38 U  | 39 U  | 39 UJ  | 38 U  | 36 UJ  | 35 UJ  |
| Aroclor 1242           | UG/KG | 38 U  | 39 U  | 39 UJ  | 38 U  | 36 UJ  | 35 UJ  |
| Aroclor 1248           | UG/KG | 38 U  | 39 U  | 39 UJ  | 38 U  | 36 UJ  | 35 UJ  |
| Aroclor 1254           | UG/KG | 38 U  | 39 U  | 39 UJ  | 38 U  | 36 UJ  | 35 UJ  |
| Aroclor 1260           | UG/KG | 38 U  | 39 U  | 39 UJ  | 38 U  | 36 UJ  | 35 UJ  |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-N-SB26-01 | 1-N-SB26-01D | 1-N-SB26-04 | 1-N-SB26-04D | 1-GW17-05 | 1-GW17-05D |
|-----------------------|-------------|--------------|-------------|--------------|-----------|------------|
| Laboratory Sample ID: | 940260-10   | 940260-11    | 940260-12   | 940260-13    | 940320-03 | 940320-04  |
| Date Sampled:         | 3/29/94     | 3/29/94      | 3/29/94     | 3/29/94      | 4/19/94   | 4/19/94    |

|                           | UNITS |      |      |       |       |      |
|---------------------------|-------|------|------|-------|-------|------|
| <u>VOLATILES</u>          |       |      |      |       |       |      |
| Chloromethane             | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Bromomethane              | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Vinyl chloride            | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Chloroethane              | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Methylene chloride        | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Acetone                   | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Carbon Disulfide          | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 1,1-Dichloroethene        | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 1,1-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 1,2-Dichloroethene(total) | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Chloroform                | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 1,2-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 2-Butanone                | UG/KG | 11 U | 11 U | 11 UJ | 11 UJ | 12 U |
| 1,1,1-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Carbon tetrachloride      | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Bromodichloromethane      | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 1,2-Dichloropropane       | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| cis-1,3-Dichloropropene   | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Trichloroethene           | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Dibromochloromethane      | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 1,1,2-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Benzene                   | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| trans-1,3-Dichloropropene | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Bromoform                 | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 4-Methyl-2-pentanone      | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 2-Hexanone                | UG/KG | 11 U | 11 U | 11 UJ | 11 UJ | 12 U |
| Tetrachloroethene         | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| 1,1,2,2-Tetrachloroethane | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Toluene                   | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Chlorobenzene             | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Ethylbenzene              | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Styrene                   | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |
| Xylenes (total)           | UG/KG | 11 U | 11 U | 11 U  | 11 U  | 12 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-N-SB26-01 | 1-N-SB26-01D | 1-N-SB26-04 | 1-N-SB26-04D | 1-GW17-05 | 1-GW17-05D |
|-----------------------|-------------|--------------|-------------|--------------|-----------|------------|
| Laboratory Sample ID: | 940260-10   | 940260-11    | 940260-12   | 940260-13    | 940320-03 | 940320-04  |
| Date Sampled:         | 3/29/94     | 3/29/94      | 3/29/94     | 3/29/94      | 4/19/94   | 4/19/94    |

|                               | UNITS |       |       |        |       |       |       |
|-------------------------------|-------|-------|-------|--------|-------|-------|-------|
| <b>SEMIVOLATILES</b>          |       |       |       |        |       |       |       |
| Phenol                        | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| bis(2-Chloroethyl) ether      | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2-Chlorophenol                | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 1,3-Dichlorobenzene           | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 1,4-Dichlorobenzene           | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 1,2-Dichlorobenzene           | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2-Methylphenol                | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 4-Methylphenol                | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| N-Nitroso-di-n-propylamine    | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Hexachloroethane              | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Nitrobenzene                  | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Isophorone                    | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2-Nitrophenol                 | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2,4-Dimethylphenol            | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| bis(2-Chloroethoxy) methane   | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2,4-Dichlorophenol            | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 1,2,4-Trichlorobenzene        | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Naphthalene                   | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 4-Chloroaniline               | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Hexachlorobutadiene           | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 4-Chloro-3-methylphenol       | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2-Methylnaphthalene           | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Hexachlorocyclopentadiene     | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2,4,6-Trichlorophenol         | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2,4,5-Trichlorophenol         | UG/KG | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| 2-Chloronaphthalene           | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2-Nitroaniline                | UG/KG | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| Dimethyl phthalate            | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Acenaphthylene                | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2,6-Dinitrotoluene            | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 3-Nitroaniline                | UG/KG | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| Acenaphthene                  | UG/KG | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-N-SB26-01 | 1-N-SB26-01D | 1-N-SB26-04 | 1-N-SB26-04D | 1-GW17-05 | 1-GW17-05D |
|-----------------------|-------------|--------------|-------------|--------------|-----------|------------|
| Laboratory Sample ID: | 940260-10   | 940260-11    | 940260-12   | 940260-13    | 940320-03 | 940320-04  |
| Date Sampled:         | 3/29/94     | 3/29/94      | 3/29/94     | 3/29/94      | 4/19/94   | 4/19/94    |

|                             | <u>UNITS</u> |       |       |        |       |       |       |
|-----------------------------|--------------|-------|-------|--------|-------|-------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |       |       |        |       |       |       |
| 2,4-Dinitrophenol           | UG/KG        | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| 4-Nitrophenol               | UG/KG        | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| Dibenzofuran                | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 2,4-Dinitrotoluene          | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Diethylphthalate            | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Fluorene                    | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 4-Nitroaniline              | UG/KG        | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| N-nitrosodiphenylamine      | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Hexachlorobenzene           | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Pentachlorophenol           | UG/KG        | 880 U | 860 U | 2600 U | 860 U | 840 U | 920 U |
| Phenanthrene                | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Anthracene                  | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Carbazole                   | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| di-n-Butylphthalate         | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Fluoranthene                | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Pyrene                      | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Butyl benzyl phthalate      | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Benzo[a]anthracene          | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Chrysene                    | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 360 U | 350 U | 8700   | 350 U | 49 J  | 380 U |
| di-n-Octylphthalate         | UG/KG        | 360 U | 350 U | 1100 U | 350 R | 350 U | 380 U |
| Benzo[b]fluoranthene        | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Benzo[k]fluoranthene        | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Benzo[a]pyrene              | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Dibenz[a,h]anthracene       | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |
| Benzo[g,h,i]perylene        | UG/KG        | 360 U | 350 U | 1100 U | 350 U | 350 U | 380 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-N-SB26-01 | 1-N-SB26-01D | 1-N-SB26-04 | 1-N-SB26-04D | 1-GW17-05 | 1-GW17-05D |
|-----------------------|-------------|--------------|-------------|--------------|-----------|------------|
| Laboratory Sample ID: | 940260-10   | 940260-11    | 940260-12   | 940260-13    | 940320-03 | 940320-04  |
| Date Sampled:         | 3/29/94     | 3/29/94      | 3/29/94     | 3/29/94      | 4/19/94   | 4/19/94    |

|                        | UNITS |        |        |       |       |       |       |
|------------------------|-------|--------|--------|-------|-------|-------|-------|
| <u>PESTICIDES/PCBs</u> |       |        |        |       |       |       |       |
| alpha-BHC              | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| beta-BHC               | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| delta-BHC              | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| Lindane (gamma-BHC)    | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| Heptachlor             | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| Aldrin                 | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| Heptachlor epoxide     | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| Endosulfan I           | UG/KG | 9.3 U  | 9.1 UJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| Dieldrin               | UG/KG | 39 J   | 31 J   | 3.6 U | 3.5 U | 7.1 J | 3.8 U |
| 4,4'-DDE               | UG/KG | 120    | 110 J  | 3.6 U | 3.5 U | 11.0  | 3.8 U |
| Endrin                 | UG/KG | 18 U   | 18 UJ  | 3.6 U | 3.5 U | 3.5 U | 3.8 U |
| Endosulfan II          | UG/KG | 18 U   | 18 UJ  | 3.6 U | 3.5 U | 3.5 U | 3.8 U |
| 4,4'-DDD               | UG/KG | 28 J   | 28 J   | 3.6 U | 3.5 U | 3.5 U | 3.8 U |
| Endosulfan sulfate     | UG/KG | 18 U   | 18 UJ  | 3.6 U | 3.5 U | 3.5 U | 3.8 U |
| 4,4'-DDT               | UG/KG | 18 J   | 22 J   | 3.6 U | 3.5 U | 7.8   | 3.8 U |
| Methoxychlor           | UG/KG | 93 U   | 91 UJ  | 18 U  | 18 U  | 18 U  | 20 U  |
| Endrin ketone          | UG/KG | 18 U   | 18 UJ  | 3.6 U | 3.5 U | 3.5 U | 3.8 U |
| Endrin aldehyde        | UG/KG | 18 U   | 18 UJ  | 3.6 U | 3.5 U | 3.5 U | 3.8 U |
| alpha-Chlordane        | UG/KG | 4.2 NJ | 4.0 NJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| gamma-Chlordane        | UG/KG | 2.9 NJ | 3.2 NJ | 1.8 U | 1.8 U | 1.8 U | 2.0 U |
| Toxaphene              | UG/KG | 930 U  | 910 UJ | 180 U | 180 U | 180 U | 200 U |
| Aroclor 1016           | UG/KG | 180 U  | 180 UJ | 36 U  | 35 U  | 35 U  | 38 U  |
| Aroclor 1221           | UG/KG | 370 U  | 360 UJ | 73 UJ | 72 U  | 71 U  | 77 U  |
| Aroclor 1232           | UG/KG | 180 U  | 180 UJ | 36 UJ | 35 U  | 35 U  | 38 U  |
| Aroclor 1242           | UG/KG | 180 U  | 180 UJ | 36 UJ | 35 U  | 35 U  | 38 U  |
| Aroclor 1248           | UG/KG | 180 U  | 180 UJ | 36 UJ | 35 U  | 35 U  | 38 U  |
| Aroclor 1254           | UG/KG | 180 U  | 180 UJ | 36 UJ | 35 U  | 35 U  | 38 U  |
| Aroclor 1260           | UG/KG | 180 U  | 180 UJ | 36 UJ | 35 U  | 35 U  | 38 U  |

**SITE 1**  
**FRENCH CREEK LIQUID DISPOSAL AREA**  
**SHALLOW GROUNDWATER - FIELD DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION CTO-19231**  
**MCB CAMP LEJEUNE, NORTH CAROLINA**  
**DISSOLVED METALS**

| Client Sample ID:     | 1-GW04D-01 | 1-GW04D-01D | 1-GW15D-01 | 1-GW15D-01D |
|-----------------------|------------|-------------|------------|-------------|
| Laboratory Sample ID: | 940341-07  | 940341-08   | 940334-31  | 940334-32   |
| Date Sampled:         | 4/24/94    | 4/24/94     | 4/23/94    | 4/23/94     |

|           | <u>UNITS</u> |         |        |         |         |
|-----------|--------------|---------|--------|---------|---------|
| Aluminum  | UG/L         | 64.4 J  | 52.5 J | 33.0 UJ | 35.2 UJ |
| Antimony  | UG/L         | 34.0 UJ | 34 UJ  | 51.4 J  | 51.4 J  |
| Arsenic   | UG/L         | 3.0 U   | 3 U    | 3.0 U   | 3 U     |
| Barium    | UG/L         | 36.6    | 38     | 28.2    | 32.2    |
| Beryllium | UG/L         | 1.0 U   | 1 U    | 1.0 U   | 1 U     |
| Cadmium   | UG/L         | 3.0 U   | 3 U    | 3.0 U   | 3 U     |
| Calcium   | UG/L         | 13700   | 17900  | 107000  | 117000  |
| Chromium  | UG/L         | 7.0 UJ  | 7 UJ   | 7.0 UJ  | 7 UJ    |
| Cobalt    | UG/L         | 4.6     | 4 U    | 4.0 UJ  | 4 UJ    |
| Copper    | UG/L         | 6.0 U   | 6 U    | 6.0 U   | 6 U     |
| Iron      | UG/L         | 171     | 32.5 U | 45.0 UJ | 30.9 UJ |
| Lead      | UG/L         | 1.9 U   | 1 U    | 1.0 UJ  | 1 UJ    |
| Magnesium | UG/L         | 5920    | 6870   | 3000    | 3260    |
| Manganese | UG/L         | 12.4    | 8.1    | 1.6     | 2.2 U   |
| Mercury   | UG/L         | 0.13 U  | 0.13 U | 0.13 U  | 0.13 U  |
| Nickel    | UG/L         | 7.0 U   | 11     | 7.0 U   | 7 U     |
| Potassium | UG/L         | 832 J   | 944 J  | 1910 J  | 2180 J  |
| Selenium  | UG/L         | 4.0 U   | 4 U    | 4.0 UJ  | 4 UJ    |
| Silver    | UG/L         | 5.0 UJ  | 5 UJ   | 5.0 UJ  | 5 UJ    |
| Sodium    | UG/L         | 9630    | 10800  | 3830    | 4380    |
| Thallium  | UG/L         | 4.0 U   | 4 U    | 4.0 U   | 4 U     |
| Vanadium  | UG/L         | 3.0 UJ  | 3 UJ   | 3.0 U   | 3 U     |
| Zinc      | UG/L         | 12.4    | 5.8    | 3.9 U   | 5.2 U   |



SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SHALLOW GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 1-GW04-01 | 1-GW04-01D | 1-GW15-01 | 1-GW15-01D |
|-----------------------|-----------|------------|-----------|------------|
| Laboratory Sample ID: | 940341-05 | 940341-06  | 940334-29 | 940334-30  |
| Date Sampled:         | 4/24/94   | 4/24/94    | 4/23/94   | 4/23/94    |

|           | UNITS |         |         |          |          |
|-----------|-------|---------|---------|----------|----------|
| Aluminum  | UG/L  | 62500 J | 44100 J | 133000 J | 122000 J |
| Antimony  | UG/L  | 34.0 UJ | 34.0 UJ | 56.6 J   | 34.0 UJ  |
| Arsenic   | UG/L  | 13.4    | 13.9    | 292      | 291      |
| Barium    | UG/L  | 261     | 221     | 726      | 729      |
| Beryllium | UG/L  | 5.0     | 4.1     | 50.1     | 50.6     |
| Cadmium   | UG/L  | 5.6     | 3.0 U   | 34.2     | 40.8     |
| Calcium   | UG/L  | 16300   | 13400   | 720000   | 758000   |
| Chromium  | UG/L  | 226 J   | 162 J   | 594 J    | 558 J    |
| Cobalt    | UG/L  | 49.4    | 38.0    | 71.2     | 71.2     |
| Copper    | UG/L  | 24.5    | 19.4    | 47.8     | 46.0     |
| Iron      | UG/L  | 68700   | 51700   | 338000 J | 335000 J |
| Lead      | UG/L  | 26.1    | 22.3    | 79.1 J   | 78.6 J   |
| Magnesium | UG/L  | 12500   | 10800   | 30900    | 29700    |
| Manganese | UG/L  | 380     | 270     | 1320     | 1370     |
| Mercury   | UG/L  | 0.13 U  | 0.13 U  | 0.53     | 0.50     |
| Nickel    | UG/L  | 126     | 74.9    | 259      | 267      |
| Potassium | UG/L  | 6350 J  | 5150 J  | 17700 J  | 16400 J  |
| Selenium  | UG/L  | 4.0 U   | 4.0 U   | 4.0 UJ   | 4.0 UJ   |
| Silver    | UG/L  | 5.0 UJ  | 5.0 UJ  | 8.2 J    | 8.9 J    |
| Sodium    | UG/L  | 9380    | 9800    | 5080     | 5200     |
| Thallium  | UG/L  | 4.0 U   | 4.0 U   | 4.0 U    | 4.0 U    |
| Vanadium  | UG/L  | 205 J   | 144 J   | 479      | 447      |
| Zinc      | UG/L  | 299     | 207     | 935      | 932      |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SHALLOW GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |           |            |           |            |
|-----------------------|-----------|------------|-----------|------------|
| Client Sample ID:     | 1-GW04-01 | 1-GW04-01D | 1-GW15-01 | 1-GW15-01D |
| Laboratory Sample ID: | 940341-05 | 940341-06  | 940334-29 | 940334-30  |
| Date Sampled:         | 4/24/94   | 4/24/94    | 4/23/94   | 4/23/94    |

|                           | <u>UNITS</u> |     |     |      |     |
|---------------------------|--------------|-----|-----|------|-----|
| <u>VOLATILES</u>          |              |     |     |      |     |
| Chloromethane             | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Bromomethane              | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Vinyl chloride            | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Chloroethane              | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Methylene chloride        | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,1-Dichloroethene        | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,1-Dichloroethane        | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,2-Dichloroethene(total) | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Chloroform                | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,2-Dichloroethane        | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,1,1-Trichloroethane     | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Carbon tetrachloride      | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Bromodichloromethane      | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,2-Dichloropropane       | UG/L         | 2 U | 2 U | 10 U | 2 U |
| cis-1,3-Dichloropropene   | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Trichloroethene           | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Dibromochloromethane      | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,1,2-Trichloroethane     | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Benzene                   | UG/L         | 2 U | 2 U | 10 U | 2 U |
| trans-1,3-Dichloropropene | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 2-Chloroethylvinylether   | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Bromoform                 | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Tetrachloroethene         | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Toluene                   | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Chlorobenzene             | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Ethylbenzene              | UG/L         | 2 U | 2 U | 10 U | 2 U |
| Xylene (total)            | UG/L         | 2 U | 2 U | 10 U | 2 U |
| 1,3-Dichlorobenzene       | UG/L         | 2 U | 2 U | 2 U  | 2 U |
| 1,4-Dichlorobenzene       | UG/L         | 2 U | 2 U | 2 U  | 2 U |
| 1,2-Dichlorobenzene       | UG/L         | 2 U | 2 U | 2 U  | 2 U |
| Trichlorofluoromethane    | UG/L         | 2 U | 2 U | 2 U  | 2 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SHALLOW GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |           |            |           |            |
|-----------------------|-----------|------------|-----------|------------|
| Client Sample ID:     | 1-GW04-01 | 1-GW04-01D | 1-GW15-01 | 1-GW15-01D |
| Laboratory Sample ID: | 940341-05 | 940341-06  | 940334-29 | 940334-30  |
| Date Sampled:         | 4/24/94   | 4/24/94    | 4/23/94   | 4/23/94    |

UNITS

SEMIVOLATILES

|                               | UG/L | 10 U | 10 U | 10 U | 10 U |
|-------------------------------|------|------|------|------|------|
| Phenol                        | UG/L | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether      | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol                | UG/L | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene           | UG/L | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol                | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol                | UG/L | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine    | UG/L | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane              | UG/L | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene                  | UG/L | 10 U | 10 U | 10 U | 10 U |
| Isophorone                    | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol            | UG/L | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethoxy) methane   | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol            | UG/L | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L | 10 U | 10 U | 10 U | 10 U |
| Naphthalene                   | UG/L | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline               | UG/L | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene           | UG/L | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol         | UG/L | 25 U | 25 U | 25 U | 25 U |
| 2-Chloronaphthalene           | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline                | UG/L | 25 U | 25 U | 25 U | 25 U |
| Dimethyl phthalate            | UG/L | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene                | UG/L | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline                | UG/L | 25 U | 25 U | 25 U | 25 U |
| Acenaphthene                  | UG/L | 10 U | 10 U | 10 U | 10 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SHALLOW GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

| Client Sample ID:     | 1-GW04-01 | 1-GW04-01D | 1-GW15-01 | 1-GW15-01D |
|-----------------------|-----------|------------|-----------|------------|
| Laboratory Sample ID: | 940341-05 | 940341-06  | 940334-29 | 940334-30  |
| Date Sampled:         | 4/24/94   | 4/24/94    | 4/23/94   | 4/23/94    |

|                             | <u>UNITS</u> |       |       |      |      |
|-----------------------------|--------------|-------|-------|------|------|
| <u>SEMIVOLATILES Cont.</u>  |              |       |       |      |      |
| 2,4-Dinitrophenol           | UG/L         | 25 U  | 25 U  | 25 U | 25 U |
| 4-Nitrophenol               | UG/L         | 25 R  | 25 R  | 25 U | 25 U |
| Dibenzofuran                | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| 2,4-Dinitrotoluene          | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Diethylphthalate            | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Fluorene                    | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| 4-Nitroaniline              | UG/L         | 25 UJ | 25 UJ | 25 U | 25 U |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U  | 25 U  | 25 U | 25 U |
| N-nitrosodiphenylamine      | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Hexachlorobenzene           | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Pentachlorophenol           | UG/L         | 25 U  | 25 U  | 25 U | 25 U |
| Phenanthrene                | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Anthracene                  | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Carbazole                   | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| di-n-Butylphthalate         | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Fluoranthene                | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Pyrene                      | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Butyl benzyl phthalate      | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 R  | 10 R  | 10 U | 10 U |
| Benzo[a]anthracene          | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Chrysene                    | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| di-n-Octylphthalate         | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Benzo[b]fluoranthene        | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Benzo[k]fluoranthene        | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Benzo[a]pyrene              | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Dibenz[a,h]anthracene       | UG/L         | 10 U  | 10 U  | 10 U | 10 U |
| Benzo[g,h,i]perylene        | UG/L         | 10 U  | 10 U  | 10 U | 10 U |

SITE 1  
 FRENCH CREEK LIQUID DISPOSAL AREA  
 SHALLOW GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |           |            |           |            |
|-----------------------|-----------|------------|-----------|------------|
| Client Sample ID:     | 1-GW04-01 | 1-GW04-01D | 1-GW15-01 | 1-GW15-01D |
| Laboratory Sample ID: | 940341-05 | 940341-06  | 940334-29 | 940334-30  |
| Date Sampled:         | 4/24/94   | 4/24/94    | 4/23/94   | 4/23/94    |

| PESTICIDES/PCBs     | UNITS |         |         |     |     |
|---------------------|-------|---------|---------|-----|-----|
|                     | UG/L  |         |         |     |     |
| alpha-BHC           | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| beta-BHC            | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| delta-BHC           | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| Lindane (gamma-BHC) | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| Heptachlor          | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| Aldrin              | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| Heptachlor epoxide  | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| Endosulfan I        | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| Dieldrin            | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| 4,4'-DDE            | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| Endrin              | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| Endosulfan II       | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| 4,4'-DDD            | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| Endosulfan sulfate  | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| 4,4'-DDT            | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| Methoxychlor        | UG/L  | 0.50 UJ | 0.50 UJ | N/A | N/A |
| Endrin ketone       | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| Endrin aldehyde     | UG/L  | 0.10 UJ | 0.10 UJ | N/A | N/A |
| alpha-Chlordane     | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| gamma-Chlordane     | UG/L  | 0.05 UJ | 0.05 UJ | N/A | N/A |
| Toxaphene           | UG/L  | 5.0 UJ  | 5.0 UJ  | N/A | N/A |
| Aroclor 1016        | UG/L  | 1.0 UJ  | 1.0 UJ  | N/A | N/A |
| Aroclor 1221        | UG/L  | 2.0 UJ  | 2.0 UJ  | N/A | N/A |
| Aroclor 1232        | UG/L  | 1.0 UJ  | 1.0 UJ  | N/A | N/A |
| Aroclor 1242        | UG/L  | 1.0 UJ  | 1.0 UJ  | N/A | N/A |
| Aroclor 1248        | UG/L  | 1.0 UJ  | 1.0 UJ  | N/A | N/A |
| Aroclor 1254        | UG/L  | 1.0 UJ  | 1.0 UJ  | N/A | N/A |
| Aroclor 1260        | UG/L  | 1.0 UJ  | 1.0 UJ  | N/A | N/A |

**SITE 28**

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SITE 28  
 HADNOT POINT BURN DUMP  
 SURFACE SOILS - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 28-W-SB04-00 | 28-W-SB04-00D | 28-W-SB12-00 | 28-W-SB12-00D | 28-E-SB23-00 | 28E-SB23-00D |        |
|-----------------------|--------------|---------------|--------------|---------------|--------------|--------------|--------|
| Laboratory Sample ID: | 940250-16    | 940250-17     | 940248-14    | 940248-15     | 940241-10    | 940241-11    |        |
| Date Sampled:         | 3/26/94      | 3/26/94       | 3/27/94      | 3/27/94       | 3/26/94      | 3/26/94      |        |
| Percent Solids        | 82           | 80.0          | 89.0         | 85.0          | 80.0         | 80.0         |        |
|                       | <u>UNITS</u> |               |              |               |              |              |        |
| Aluminum              | MG/KG        | 2310          | 1900         | 7150 J        | 6210 J       | 2100         | 2180   |
| Antimony              | MG/KG        | 8.0 UJ        | 7.8 UJ       | 7.2 UJ        | 7.3 UJ       | 7.4 UJ       | 6.6 UJ |
| Arsenic               | MG/KG        | 0.71 UJ       | 0.69 UJ      | 1.1           | 1.2          | 1.3 J        | 0.74 J |
| Barium                | MG/KG        | 8.0           | 8.5          | 58.1          | 40.9         | 8.9          | 7.9    |
| Beryllium             | MG/KG        | 0.24 U        | 0.23 U       | 0.21 U        | 0.21 U       | 0.22 U       | 0.19 U |
| Cadmium               | MG/KG        | 0.71 U        | 0.69 U       | 2.4           | 2.4          | 0.65 U       | 0.58 U |
| Calcium               | MG/KG        | 2260          | 3040         | 2030 J        | 1500 J       | 291          | 265    |
| Chromium              | MG/KG        | 3.3           | 4.0          | 11.8 J        | 10.4 J       | 4.5          | 3.4    |
| Cobalt                | MG/KG        | 0.95 U        | 0.92 U       | 1.1           | 1.4          | 0.87 U       | 0.77 U |
| Copper                | MG/KG        | 9.9           | 6.2          | 119 J         | 34.6 J       | 2.9          | 3.0    |
| Iron                  | MG/KG        | 2820          | 2220         | 5430 J        | 8300 J       | 2800         | 2080   |
| Lead                  | MG/KG        | 13.9          | 16.8         | 128 J         | 137 J        | 5.0          | 4.9    |
| Magnesium             | MG/KG        | 241           | 187          | 199 J         | 216 J        | 76.8         | 82.9   |
| Manganese             | MG/KG        | 20.1 J        | 21.8 J       | 94.2 J        | 196 J        | 2.4 J        | 3.9 J  |
| Mercury               | MG/KG        | 0.05 U        | 0.06 U       | 0.21          | 0.27         | 0.05 U       | 0.07   |
| Nickel                | MG/KG        | 1.7 U         | 1.6 U        | 4.1 J         | 6.7 J        | 1.5 U        | 1.4 U  |
| Potassium             | MG/KG        | 429 J         | 184 J        | 201 J         | 236 J        | 115 J        | 125 J  |
| Selenium              | MG/KG        | 0.95 U        | 0.92 U       | 0.85 UJ       | 0.86 UJ      | 0.87 U       | 0.77 U |
| Silver                | MG/KG        | 1.2 UJ        | 1.1 UJ       | 2.2 J         | 1.2 J        | 1.1 UJ       | 1.1 UJ |
| Sodium                | MG/KG        | 35.4 U        | 38.8 U       | 74.2 U        | 75.9 U       | 17.1         | 22.8 U |
| Thallium              | MG/KG        | 0.95 U        | 0.92 U       | 0.85 U        | 0.86 U       | 0.87 U       | 0.77 U |
| Vanadium              | MG/KG        | 6.4           | 5.4          | 7.9           | 7.6          | 6.0          | 4.9    |
| Zinc                  | MG/KG        | 25.2 J        | 29.2 J       | 519 J         | 393 J        | 3.1 U        | 3.2 U  |

SITE 28  
 HADNOT POINT BURN DUMP  
 SURFACE SOILS - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-E-SB29-00 | 28-E-SB29-00D | 28-GW05-00 | 28-GW05-00D |
| Laboratory Sample ID: | 940246-23    | 940246-24     | 940281-04  | 940281-05   |
| Date Sampled:         | 3/26/94      | 3/26/94       | 4/7/94     | 4/7/94      |

| Percent Solids |              | 90.0    | 92.0    | 91.0    | 94.0   |
|----------------|--------------|---------|---------|---------|--------|
|                | <u>UNITS</u> |         |         |         |        |
| Aluminum       | MG/KG        | 1200 J  | 1610 J  | 3630    | 3560   |
| Antimony       | MG/KG        | 6.1 UJ  | 7.5 UJ  | 6.4 UJ  | 9.1 J  |
| Arsenic        | MG/KG        | 0.54 U  | 0.66 U  | 1.4     | 1.6    |
| Barium         | MG/KG        | 10.2    | 13.9    | 14.6    | 14.4   |
| Beryllium      | MG/KG        | 0.18 U  | 0.22 U  | 0.19 U  | 0.21 U |
| Cadmium        | MG/KG        | 0.54 U  | 0.66 U  | 0.57 U  | 0.63 U |
| Calcium        | MG/KG        | 3920 J  | 6030 J  | 41900   | 39400  |
| Chromium       | MG/KG        | 1.4 J   | 3.2 J   | 6.2     | 6.6    |
| Cobalt         | MG/KG        | 0.72 U  | 0.88 U  | 1.2     | 0.97   |
| Copper         | MG/KG        | 4.5 J   | 8.9 J   | 5.5     | 4.7    |
| Iron           | MG/KG        | 638 J   | 899 J   | 3960    | 3560   |
| Lead           | MG/KG        | 6.9 J   | 9.2 J   | 11.4 J  | 10.3 J |
| Magnesium      | MG/KG        | 52.2 J  | 77.5 J  | 370     | 335    |
| Manganese      | MG/KG        | 9.4 J   | 11.0 J  | 21.1    | 18.7   |
| Mercury        | MG/KG        | 0.25    | 0.16    | 0.07    | 0.07   |
| Nickel         | MG/KG        | 2.0 UJ  | 3.3 UJ  | 1.6 U   | 1.9 U  |
| Potassium      | MG/KG        | 26.3 J  | 52.2 J  | 171     | 210    |
| Selenium       | MG/KG        | 0.72 UJ | 0.88 UJ | 0.76 U  | 0.84 U |
| Silver         | MG/KG        | 0.90 UJ | 1.1 UJ  | 0.95 UJ | 1.0 UJ |
| Sodium         | MG/KG        | 26.2 U  | 32.8 U  | 25.4    | 20.0   |
| Thallium       | MG/KG        | 0.80    | 0.88 U  | 0.76 U  | 0.84 U |
| Vanadium       | MG/KG        | 2.0     | 3.0     | 7.4     | 8.1    |
| Zinc           | MG/KG        | 9.8 J   | 14.9 J  | 19.8    | 17.2   |



SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

| Client Sample ID:     | 28-W-SB04-00 | 28-W-SB04-00D | 28-W-SB12-00 | 28-W-SB12-00D | 28-E-SB23-00 | 28E-SB23-00D |
|-----------------------|--------------|---------------|--------------|---------------|--------------|--------------|
| Laboratory Sample ID: | 940250-16    | 940250-17     | 940248-14    | 940248-15     | 940241-10    | 940241-11    |
| Date Sampled:         | 3/26/94      | 3/26/94       | 3/27/94      | 3/27/94       | 3/26/94      | 3/26/94      |

|                           | <u>UNITS</u> |      |      |      |      |      |      |
|---------------------------|--------------|------|------|------|------|------|------|
| <u>VOLATILES</u>          |              |      |      |      |      |      |      |
| Chloromethane             | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Bromomethane              | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Vinyl chloride            | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Chloroethane              | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Methylene chloride        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Acetone                   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 15 U |
| Carbon Disulfide          | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,1-Dichloroethene        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,1-Dichloroethane        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,2-Dichloroethene(total) | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Chloroform                | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,2-Dichloroethane        | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 2-Butanone                | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,1,1-Trichloroethane     | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Carbon tetrachloride      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Bromodichloromethane      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,2-Dichloropropane       | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| cis-1,3-Dichloropropene   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Trichloroethene           | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Dibromochloromethane      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,1,2-Trichloroethane     | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Benzene                   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| trans-1,3-Dichloropropene | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Bromoform                 | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 4-Methyl-2-pentanone      | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 2-Hexanone                | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Tetrachloroethene         | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| 1,1,2,2-Tetrachloroethane | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Toluene                   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Chlorobenzene             | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Ethylbenzene              | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Styrene                   | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |
| Xylenes (total)           | UG/KG        | 12 U | 12 U | 11 U | 11 U | 12 U | 12 U |

SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |              |               |              |              |
|-----------------------|--------------|---------------|--------------|---------------|--------------|--------------|
| Client Sample ID:     | 28-W-SB04-00 | 28-W-SB04-00D | 28-W-SB12-00 | 28-W-SB12-00D | 28-E-SB23-00 | 28E-SB23-00D |
| Laboratory Sample ID: | 940250-16    | 940250-17     | 940248-14    | 940248-15     | 940241-10    | 940241-11    |
| Date Sampled:         | 3/26/94      | 3/26/94       | 3/27/94      | 3/27/94       | 3/26/94      | 3/26/94      |

|                               | UNITS |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| <u>SEMIVOLATILES</u>          |       |       |       |       |       |       |       |
| Phenol                        | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| bis(2-Chloroethyl) ether      | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2-Chlorophenol                | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 1,3-Dichlorobenzene           | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 1,4-Dichlorobenzene           | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 1,2-Dichlorobenzene           | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2-Methylphenol                | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 4-Methylphenol                | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| N-Nitroso-di-n-propylamine    | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| Hexachloroethane              | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| Nitrobenzene                  | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| Isophorone                    | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2-Nitrophenol                 | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2,4-Dimethylphenol            | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| bis(2-Chloroethoxy) methane   | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2,4-Dichlorophenol            | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 1,2,4-Trichlorobenzene        | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| Naphthalene                   | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 4-Chloroaniline               | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| Hexachlorobutadiene           | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 4-Chloro-3-methylphenol       | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2-Methylnaphthalene           | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| Hexachlorocyclopentadiene     | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2,4,6-Trichlorophenol         | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2,4,5-Trichlorophenol         | UG/KG | 960 U | 990 U | 890 U | 940 U | 980 U | 990 U |
| 2-Chloronaphthalene           | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2-Nitroaniline                | UG/KG | 960 U | 990 U | 890 U | 940 U | 980 U | 990 U |
| Dimethyl phthalate            | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| Acenaphthylene                | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 2,6-Dinitrotoluene            | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |
| 3-Nitroaniline                | UG/KG | 960 U | 990 U | 890 U | 940 U | 980 U | 990 U |
| Acenaphthene                  | UG/KG | 400 U | 410 U | 370 U | 390 U | 410 U | 410 U |

SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |              |               |              |              |
|-----------------------|--------------|---------------|--------------|---------------|--------------|--------------|
| Client Sample ID:     | 28-W-SB04-00 | 28-W-SB04-00D | 28-W-SB12-00 | 28-W-SB12-00D | 28-E-SB23-00 | 28E-SB23-00D |
| Laboratory Sample ID: | 940250-16    | 940250-17     | 940248-14    | 940248-15     | 940241-10    | 940241-11    |
| Date Sampled:         | 3/26/94      | 3/26/94       | 3/27/94      | 3/27/94       | 3/26/94      | 3/26/94      |

|                             | <u>UNITS</u> |        |        |       |       |       |       |
|-----------------------------|--------------|--------|--------|-------|-------|-------|-------|
| <u>SEMIVOLATILES cont.</u>  |              |        |        |       |       |       |       |
| 2,4-Dinitrophenol           | UG/KG        | 960 UJ | 990 UJ | 890 U | 940 U | 980 U | 990 U |
| 4-Nitrophenol               | UG/KG        | 960 U  | 990 U  | 890 U | 940 U | 980 U | 990 U |
| Dibenzofuran                | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| 2,4-Dinitrotoluene          | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Diethylphthalate            | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Fluorene                    | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| 4-Nitroaniline              | UG/KG        | 960 U  | 990 U  | 890 U | 940 U | 980 U | 990 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 960 UJ | 990 UJ | 890 U | 940 U | 980 U | 990 U |
| N-nitrosodiphenylamine      | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Hexachlorobenzene           | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Pentachlorophenol           | UG/KG        | 960 U  | 990 U  | 890 U | 940 U | 980 U | 990 U |
| Phenanthrene                | UG/KG        | 43 J   | 52 J   | 370 U | 390 U | 410 U | 46 J  |
| Anthracene                  | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Carbazole                   | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| di-n-Butylphthalate         | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Fluoranthene                | UG/KG        | 79 J   | 110 J  | 370 U | 390 U | 410 U | 72 J  |
| Pyrene                      | UG/KG        | 79 J   | 94 J   | 370 U | 390 U | 410 U | 64 J  |
| Butyl benzyl phthalate      | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Benzo[a]anthracene          | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Chrysene                    | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 400 U  | 410 U  | 120 J | 62 J  | 410 U | 410 U |
| di-n-Octylphthalate         | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Benzo[b]fluoranthene        | UG/KG        | 41 J   | 46 J   | 370 U | 390 U | 410 U | 410 U |
| Benzo[k]fluoranthene        | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Benzo[a]pyrene              | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Dibenz[a,h]anthracene       | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |
| Benzo[g,h,i]perylene        | UG/KG        | 400 U  | 410 U  | 370 U | 390 U | 410 U | 410 U |

SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |              |               |              |              |
|-----------------------|--------------|---------------|--------------|---------------|--------------|--------------|
| Client Sample ID:     | 28-W-SB04-00 | 28-W-SB04-00D | 28-W-SB12-00 | 28-W-SB12-00D | 28-E-SB23-00 | 28E-SB23-00D |
| Laboratory Sample ID: | 940250-16    | 940250-17     | 940248-14    | 940248-15     | 940241-10    | 940241-11    |
| Date Sampled:         | 3/26/94      | 3/26/94       | 3/27/94      | 3/27/94       | 3/26/94      | 3/26/94      |

|                        | UNITS |       |        |        |        |       |       |
|------------------------|-------|-------|--------|--------|--------|-------|-------|
| <u>PESTICIDES/PCBs</u> |       |       |        |        |        |       |       |
| alpha-BHC              | UG/KG | 2 U   | 2.1 UJ | 1.9 UJ | 2.0 UJ | 2.1 U | 2.1 U |
| beta-BHC               | UG/KG | 2 U   | 2.1 UJ | 1.9 UJ | 2.0 UJ | 2.1 U | 2.1 U |
| delta-BHC              | UG/KG | 2 U   | 2.1 UJ | 1.9 UJ | 2.0 UJ | 2.1 U | 2.1 U |
| Lindane (gamma-BHC)    | UG/KG | 2 U   | 2.1 UJ | 1.9 UJ | 2.0 UJ | 2.1 U | 2.1 U |
| Heptachlor             | UG/KG | 2 U   | 2.1 UJ | 1.9 UJ | 2.0 UJ | 2.1 U | 2.1 U |
| Aldrin                 | UG/KG | 2.0 U | 2.1 UJ | 1.9 UJ | 2.0 UJ | 2.1 U | 2.1 U |
| Heptachlor epoxide     | UG/KG | 2.0 U | 2.1 UJ | 8.0 J  | 2.0 UJ | 2.1 U | 2.1 U |
| Endosulfan I           | UG/KG | 2.0 U | 2.1 UJ | 1.9 UJ | 2.0 UJ | 2.1 U | 2.1 U |
| Dieldrin               | UG/KG | 4.0 U | 4.1 UJ | 3.7 R  | 3.9 R  | 4.1 U | 4.1 U |
| 4,4'-DDE               | UG/KG | 4.0 U | 4.1 UJ | 4.7 J  | 3.9 UJ | 4.1 U | 4.1 U |
| Endrin                 | UG/KG | 4.0 U | 4.1 UJ | 3.7 R  | 3.9 R  | 4.1 U | 4.1 U |
| Endosulfan II          | UG/KG | 4.0 U | 4.1 UJ | 3.7 UJ | 3.9 UJ | 4.1 U | 4.1 U |
| 4,4'-DDD               | UG/KG | 4.0 U | 4.1 UJ | 3.7 UJ | 3.9 UJ | 4.1 U | 4.1 U |
| Endosulfan sulfate     | UG/KG | 4.0 U | 4.1 UJ | 3.7 UJ | 3.9 UJ | 4.1 U | 4.1 U |
| 4,4'-DDT               | UG/KG | 4.0 U | 4.1 UJ | 3.7 UJ | 3.9 UJ | 4.1 U | 4.1 U |
| Methoxychlor           | UG/KG | 20 U  | 21 UJ  | 19 UJ  | 20 UJ  | 21 U  | 21 U  |
| Endrin ketone          | UG/KG | 4.0 U | 4.1 UJ | 3.7 UJ | 3.9 UJ | 4.1 U | 4.1 U |
| Endrin aldehyde        | UG/KG | 4.0 U | 4.1 UJ | 3.7 UJ | 3.9 UJ | 4.1 U | 4.1 U |
| alpha-Chlordane        | UG/KG | 2.0 U | 2.1 UJ | 13 J   | 11 J   | 2.1 U | 2.1 U |
| gamma-Chlordane        | UG/KG | 2.0 U | 2.1 UJ | 1.9 NJ | 2.0 UJ | 2.1 U | 2.1 U |
| Toxaphene              | UG/KG | 200 U | 210 UJ | 190 UJ | 200 UJ | 210 U | 210 U |
| Aroclor 1016           | UG/KG | 40 U  | 41 UJ  | 37 UJ  | 39 UJ  | 41 U  | 41 U  |
| Aroclor 1221           | UG/KG | 80 U  | 83 UJ  | 75 UJ  | 79 UJ  | 82 U  | 83 U  |
| Aroclor 1232           | UG/KG | 40 U  | 41 UJ  | 37 UJ  | 39 UJ  | 41 U  | 41 U  |
| Aroclor 1242           | UG/KG | 40 U  | 41 UJ  | 37 UJ  | 39 UJ  | 41 U  | 41 U  |
| Aroclor 1248           | UG/KG | 40 U  | 41 UJ  | 37 UJ  | 39 UJ  | 41 U  | 41 U  |
| Aroclor 1254           | UG/KG | 40 U  | 41 UJ  | 58 J   | 51 J   | 41 U  | 41 U  |
| Aroclor 1260           | UG/KG | 40 U  | 41 UJ  | 37 UJ  | 39 UJ  | 41 U  | 41 U  |

SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-E-SB29-00 | 28-E-SB29-00D | 28-GW05-00 | 28-GW05-00D |
| Laboratory Sample ID: | 940246-23    | 940246-24     | 940281-04  | 940281-05   |
| Date Sampled:         | 3/26/94      | 3/26/94       | 4/7/94     | 4/7/94      |

|                           | UNITS |      |      |      |      |
|---------------------------|-------|------|------|------|------|
| <u>VOLATILES</u>          |       |      |      |      |      |
| Chloromethane             | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Bromomethane              | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Vinyl chloride            | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Chloroethane              | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Methylene chloride        | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Acetone                   | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Carbon Disulfide          | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,1-Dichloroethene        | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,1-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,2-Dichloroethene(total) | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Chloroform                | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,2-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 2-Butanone                | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,1,1-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Carbon tetrachloride      | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Bromodichloromethane      | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,2-Dichloropropane       | UG/KG | 11 U | 11 U | 11 U | 11 U |
| cis-1,3-Dichloropropene   | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Trichloroethene           | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Dibromochloromethane      | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,1,2-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Benzene                   | UG/KG | 11 U | 11 U | 11 U | 11 U |
| trans-1,3-Dichloropropene | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Bromoform                 | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 4-Methyl-2-pentanone      | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 2-Hexanone                | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Tetrachloroethene         | UG/KG | 11 U | 11 U | 11 U | 11 U |
| 1,1,2,2-Tetrachloroethane | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Toluene                   | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Chlorobenzene             | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Ethylbenzene              | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Styrene                   | UG/KG | 11 U | 11 U | 11 U | 11 U |
| Xylenes (total)           | UG/KG | 11 U | 11 U | 11 U | 11 U |

SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-E-SB29-00 | 28-E-SB29-00D | 28-GW05-00 | 28-GW05-00D |
| Laboratory Sample ID: | 940246-23    | 940246-24     | 940281-04  | 940281-05   |
| Date Sampled:         | 3/26/94      | 3/26/94       | 4/7/94     | 4/7/94      |

|                              | UNITS |        |        |       |       |
|------------------------------|-------|--------|--------|-------|-------|
| <u>SEMIVOLATILES</u>         |       |        |        |       |       |
| Phenol                       | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| bis(2-Chloroethyl) ether     | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 2-Chlorophenol               | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 1,3-Dichlorobenzene          | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 1,4-Dichlorobenzene          | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 1,2-Dichlorobenzene          | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 2-Methylphenol               | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 2,2-oxybis-(1-chloropropane) | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 4-Methylphenol               | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| N-Nitroso-di-n-propylamine   | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| Hexachloroethane             | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| Nitrobenzene                 | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| Isophorone                   | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 2-Nitrophenol                | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 2,4-Dimethylphenol           | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| bis(2-Chloroethoxy) methane  | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 2,4-Dichlorophenol           | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 1,2,4-Trichlorobenzene       | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| Naphthalene                  | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 4-Chloroaniline              | UG/KG | 360 U  | 360 UJ | 360 U | 350 U |
| Hexachlorobutadiene          | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 4-Chloro-3-methylphenol      | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| 2-Methylnaphthalene          | UG/KG | 360 U  | 360 U  | 360 U | 350 U |
| Hexachlorocyclopentadiene    | UG/KG | 360 UJ | 360 U  | 360 U | 350 U |
| 2,4,6-Trichlorophenol        | UG/KG | 360 UJ | 360 U  | 360 U | 350 U |
| 2,4,5-Trichlorophenol        | UG/KG | 880 UJ | 860 U  | 880 U | 840 U |
| 2-Chloronaphthalene          | UG/KG | 360 UJ | 360 U  | 360 U | 350 U |
| 2-Nitroaniline               | UG/KG | 880 UJ | 860 U  | 880 U | 840 U |
| Dimethyl phthalate           | UG/KG | 360 UJ | 360 U  | 360 U | 350 U |
| Acenaphthylene               | UG/KG | 360 UJ | 360 U  | 360 U | 350 U |
| 2,6-Dinitrotoluene           | UG/KG | 360 UJ | 360 U  | 360 U | 350 U |
| 3-Nitroaniline               | UG/KG | 880 UJ | 860 U  | 880 U | 840 U |
| Acenaphthene                 | UG/KG | 360 UJ | 360 U  | 360 U | 350 U |

SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-E-SB29-00 | 28-E-SB29-00D | 28-GW05-00 | 28-GW05-00D |
| Laboratory Sample ID: | 940246-23    | 940246-24     | 940281-04  | 940281-05   |
| Date Sampled:         | 3/26/94      | 3/26/94       | 4/7/94     | 4/7/94      |

|                             | <u>UNITS</u> |        |       |       |       |
|-----------------------------|--------------|--------|-------|-------|-------|
| <u>SEMIVOLATILES cont.</u>  |              |        |       |       |       |
| 2,4-Dinitrophenol           | UG/KG        | 880 UJ | 860 U | 880 U | 840 U |
| 4-Nitrophenol               | UG/KG        | 880 UJ | 860 U | 880 U | 840 U |
| Dibenzofuran                | UG/KG        | 360 UJ | 360 U | 360 U | 350 U |
| 2,4-Dinitrotoluene          | UG/KG        | 360 UJ | 360 U | 360 U | 350 U |
| Diethylphthalate            | UG/KG        | 360 UJ | 360 U | 360 U | 350 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 360 UJ | 360 U | 360 U | 350 U |
| Fluorene                    | UG/KG        | 360 UJ | 360 U | 360 U | 350 U |
| 4-Nitroaniline              | UG/KG        | 880 UJ | 860 U | 880 U | 840 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 880 U  | 860 U | 880 U | 840 U |
| N-nitrosodiphenylamine      | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Hexachlorobenzene           | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Pentachlorophenol           | UG/KG        | 880 U  | 860 U | 880 U | 840 U |
| Phenanthrene                | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Anthracene                  | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Carbazole                   | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| di-n-Butylphthalate         | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Fluoranthene                | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Pyrene                      | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Butyl benzyl phthalate      | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Benzo[a]anthracene          | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Chrysene                    | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| di-n-Octylphthalate         | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Benzo[b]fluoranthene        | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Benzo[k]fluoranthene        | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Benzo[a]pyrene              | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Dibenz[a,h]anthracene       | UG/KG        | 360 U  | 360 U | 360 U | 350 U |
| Benzo[g,h,i]perylene        | UG/KG        | 360 U  | 360 U | 360 U | 350 U |

SITE 28  
HADNOT POINT BURN DUMP  
SURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-E-SB29-00 | 28-E-SB29-00D | 28-GW05-00 | 28-GW05-00D |
| Laboratory Sample ID: | 940246-23    | 940246-24     | 940281-04  | 940281-05   |
| Date Sampled:         | 3/26/94      | 3/26/94       | 4/7/94     | 4/7/94      |

|                        | UNITS |        |        |        |        |
|------------------------|-------|--------|--------|--------|--------|
| <u>PESTICIDES/PCBs</u> |       |        |        |        |        |
| alpha-BHC              | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| beta-BHC               | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| delta-BHC              | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| Lindane (gamma-BHC)    | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| Heptachlor             | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| Aldrin                 | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| Heptachlor epoxide     | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| Endosulfan I           | UG/KG | 1.9 UJ | 1.8 UJ | 19 U   | 18 U   |
| Dieldrin               | UG/KG | 3.6 UJ | 3.6 UJ | 36 U   | 35 U   |
| 4,4'-DDE               | UG/KG | 20 J   | 53 J   | 22 J   | 23 J   |
| Endrin                 | UG/KG | 3.6 UJ | 3.6 UJ | 36 U   | 35 U   |
| Endosulfan II          | UG/KG | 3.6 UJ | 3.6 UJ | 36 U   | 35 U   |
| 4,4'-DDD               | UG/KG | 3.6 UJ | 3.6 UJ | 33 J   | 44 J   |
| Endosulfan sulfate     | UG/KG | 3.6 UJ | 3.6 UJ | 36 U   | 35 U   |
| 4,4'-DDT               | UG/KG | 20 J   | 22 J   | 21 J   | 20 J   |
| Methoxychlor           | UG/KG | 19 UJ  | 18 UJ  | 190 U  | 180 U  |
| Endrin ketone          | UG/KG | 3.6 UJ | 3.6 UJ | 36 U   | 35 U   |
| Endrin aldehyde        | UG/KG | 3.6 UJ | 3.6 UJ | 36 U   | 35 U   |
| alpha-Chlordane        | UG/KG | 1.9 UJ | 1.8 UJ | 38 J   | 37 J   |
| gamma-Chlordane        | UG/KG | 1.9 UJ | 1.8 UJ | 18 J   | 19 J   |
| Toxaphene              | UG/KG | 190 UJ | 180 UJ | 1900 U | 1800 U |
| Aroclor 1016           | UG/KG | 36 UJ  | 36 UJ  | 360 U  | 350 U  |
| Aroclor 1221           | UG/KG | 74 UJ  | 72 UJ  | 740 U  | 700 U  |
| Aroclor 1232           | UG/KG | 36 UJ  | 36 UJ  | 360 U  | 350 U  |
| Aroclor 1242           | UG/KG | 36 UJ  | 36 UJ  | 360 U  | 350 U  |
| Aroclor 1248           | UG/KG | 36 UJ  | 36 UJ  | 360 U  | 350 U  |
| Aroclor 1254           | UG/KG | 36 UJ  | 36 UJ  | 360 U  | 350 U  |
| Aroclor 1260           | UG/KG | 36 UJ  | 36 UJ  | 360 U  | 350 U  |



SITE 28  
 HADNOT POINT BURN DUMP  
 SUBSURFACE SOILS - DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 28-W-SB06-05 | 28-W-SB06-05D | 28-W-SB11-03 | 28-W-SB11-03D |         |
|-----------------------|--------------|---------------|--------------|---------------|---------|
| Laboratory Sample ID: | 940248-06    | 940248-07     | 940248-12    | 940248-13     |         |
| Date Sampled:         | 3/27/94      | 3/27/94       | 3/27/94      | 3/27/94       |         |
| Percent Solids        | 79.0         | 82.0          | 85.0         | 86.0          |         |
|                       | <u>UNITS</u> |               |              |               |         |
| Aluminum              | MG/KG        | 10800 J       | 9720 J       | 3050 J        | 5200 J  |
| Antimony              | MG/KG        | 20.6 J        | 27.5 J       | 9.8 J         | 7.5 UJ  |
| Arsenic               | MG/KG        | 25.1          | 24.8         | 3.3           | 3.2     |
| Barium                | MG/KG        | 198           | 161          | 40.2          | 54.5    |
| Beryllium             | MG/KG        | 0.24 U        | 0.22 U       | 0.22 U        | 0.22 U  |
| Cadmium               | MG/KG        | 14.8          | 10.6         | 2.3           | 6.8     |
| Calcium               | MG/KG        | 17200 J       | 12900 J      | 63200 J       | 32400 J |
| Chromium              | MG/KG        | 98.5 J        | 70.3 J       | 34.7 J        | 20.9 J  |
| Cobalt                | MG/KG        | 15.4          | 12.5         | 2.8           | 1.9     |
| Copper                | MG/KG        | 697 J         | 702 J        | 33.8 J        | 952 J   |
| Iron                  | MG/KG        | 95400 J       | 154000 J     | 35500 J       | 26000 J |
| Lead                  | MG/KG        | 1700 J        | 1850 J       | 146 J         | 244 J   |
| Magnesium             | MG/KG        | 1060 J        | 866 J        | 3660 J        | 421 J   |
| Manganese             | MG/KG        | 1340 J        | 909 J        | 325 J         | 246 J   |
| Mercury               | MG/KG        | 0.60          | 0.42         | 0.05 U        | 0.15    |
| Nickel                | MG/KG        | 102 J         | 52.0 J       | 38.5 J        | 11.8 J  |
| Potassium             | MG/KG        | 583 J         | 594 J        | 216 J         | 226 J   |
| Selenium              | MG/KG        | 0.95 UJ       | 0.90 UJ      | 0.87 UJ       | 0.88 UJ |
| Silver                | MG/KG        | 9.6 J         | 12.2 J       | 1.5 U         | 3.4 J   |
| Sodium                | MG/KG        | 267           | 395          | 105 U         | 91.3 U  |
| Thallium              | MG/KG        | 0.95 U        | 0.90 U       | 0.87 U        | 0.88 U  |
| Vanadium              | MG/KG        | 31.8          | 33.8         | 16.7          | 12.0    |
| Zinc                  | MG/KG        | 1510 J        | 1330 J       | 343 J         | 898 J   |

SITE 28  
HADNOT POINT BURN DUMP  
SUBSURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |              |               |
|-----------------------|--------------|---------------|--------------|---------------|
| Client Sample ID:     | 28-W-SB06-05 | 28-W-SB06-05D | 28-W-SB11-03 | 28-W-SB11-03D |
| Laboratory Sample ID: | 940248-06    | 940248-07     | 940248-12    | 940248-13     |
| Date Sampled:         | 3/27/94      | 3/27/94       | 3/27/94      | 3/27/94       |

|                           | <u>UNITS</u> |       |       |      |      |
|---------------------------|--------------|-------|-------|------|------|
| <u>VOLATILES</u>          |              |       |       |      |      |
| Chloromethane             | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Bromomethane              | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Vinyl chloride            | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Chloroethane              | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Methylene chloride        | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Acetone                   | UG/KG        | 12 UJ | 12 UJ | 15 U | 17 U |
| Carbon Disulfide          | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 1,1-Dichloroethene        | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 1,1-Dichloroethane        | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 1,2-Dichloroethene(total) | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Chloroform                | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 1,2-Dichloroethane        | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 2-Butanone                | UG/KG        | 12 UJ | 12 UJ | 11 U | 12 U |
| 1,1,1-Trichloroethane     | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Carbon tetrachloride      | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Bromodichloromethane      | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 1,2-Dichloropropane       | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| cis-1,3-Dichloropropene   | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Trichloroethene           | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Dibromochloromethane      | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 1,1,2-Trichloroethane     | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Benzene                   | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| trans-1,3-Dichloropropene | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Bromoform                 | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 4-Methyl-2-pentanone      | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| 2-Hexanone                | UG/KG        | 12 UJ | 12 U  | 11 U | 12 U |
| Tetrachloroethene         | UG/KG        | 12 U  | 12 U  | 5 J  | 12 U |
| 1,1,2,2-Tetrachloroethane | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Toluene                   | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Chlorobenzene             | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Ethylbenzene              | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Styrene                   | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |
| Xylenes (total)           | UG/KG        | 12 U  | 12 U  | 11 U | 12 U |

SITE 28  
HADNOT POINT BURN DUMP  
SUBSURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |              |               |
|-----------------------|--------------|---------------|--------------|---------------|
| Client Sample ID:     | 28-W-SB06-05 | 28-W-SB06-05D | 28-W-SB11-03 | 28-W-SB11-03D |
| Laboratory Sample ID: | 940248-06    | 940248-07     | 940248-12    | 940248-13     |
| Date Sampled:         | 3/27/94      | 3/27/94       | 3/27/94      | 3/27/94       |

|                              | <u>UNITS</u> |        |        |         |       |
|------------------------------|--------------|--------|--------|---------|-------|
| <u>SEMIVOLATILES</u>         |              |        |        |         |       |
| Phenol                       | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| bis(2-Chloroethyl) ether     | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2-Chlorophenol               | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 1,3-Dichlorobenzene          | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 1,4-Dichlorobenzene          | UG/KG        | 44 J   | 400 U  | 3900 U  | 380 U |
| 1,2-Dichlorobenzene          | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2-Methylphenol               | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2,2-oxybis-(1-chloropropane) | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 4-Methylphenol               | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| N-Nitroso-di-n-propylamine   | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Hexachloroethane             | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Nitrobenzene                 | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Isophorone                   | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2-Nitrophenol                | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2,4-Dimethylphenol           | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| bis(2-Chloroethoxy) methane  | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2,4-Dichlorophenol           | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 1,2,4-Trichlorobenzene       | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Naphthalene                  | UG/KG        | 410 U  | 400 U  | 730 J   | 150 J |
| 4-Chloroaniline              | UG/KG        | 410 UJ | 400 UJ | 3900 UJ | 380 U |
| Hexachlorobutadiene          | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 4-Chloro-3-methylphenol      | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2-Methylnaphthalene          | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Hexachlorocyclopentadiene    | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2,4,6-Trichlorophenol        | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2,4,5-Trichlorophenol        | UG/KG        | 1000 U | 980 U  | 9400 U  | 920 U |
| 2-Chloronaphthalene          | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2-Nitroaniline               | UG/KG        | 1000 U | 980 U  | 9400 U  | 920 U |
| Dimethyl phthalate           | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Acenaphthylene               | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 2,6-Dinitrotoluene           | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 3-Nitroaniline               | UG/KG        | 1000 U | 980 U  | 9400 U  | 920 U |
| Acenaphthene                 | UG/KG        | 410 U  | 400 U  | 2500 J  | 260 J |

SITE 28  
HADNOT POINT BURN DUMP  
SUBSURFACE SOILS - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |              |               |
|-----------------------|--------------|---------------|--------------|---------------|
| Client Sample ID:     | 28-W-SB06-05 | 28-W-SB06-05D | 28-W-SB11-03 | 28-W-SB11-03D |
| Laboratory Sample ID: | 940248-06    | 940248-07     | 940248-12    | 940248-13     |
| Date Sampled:         | 3/27/94      | 3/27/94       | 3/27/94      | 3/27/94       |

|                             | <u>UNITS</u> |        |        |         |       |
|-----------------------------|--------------|--------|--------|---------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |        |        |         |       |
| 2,4-Dinitrophenol           | UG/KG        | 1000 U | 980 U  | 9400 U  | 920 U |
| 4-Nitrophenol               | UG/KG        | 1000 U | 980 U  | 9400 U  | 920 U |
| Dibenzofuran                | UG/KG        | 410 U  | 400 U  | 1300 J  | 130 J |
| 2,4-Dinitrotoluene          | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Diethylphthalate            | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Fluorene                    | UG/KG        | 410 U  | 400 U  | 2600 J  | 210 J |
| 4-Nitroaniline              | UG/KG        | 1000 U | 980 UJ | 9400 U  | 920 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 1000 U | 980 U  | 9400 U  | 920 U |
| N-nitrosodiphenylamine      | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Hexachlorobenzene           | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Pentachlorophenol           | UG/KG        | 1000 U | 980 U  | 9400 U  | 920 U |
| Phenanthrene                | UG/KG        | 410 U  | 400 U  | 27000   | 1600  |
| Anthracene                  | UG/KG        | 410 U  | 400 U  | 8600    | 480   |
| Carbazole                   | UG/KG        | 410 U  | 400 U  | 4700    | 200 J |
| di-n-Butylphthalate         | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Fluoranthene                | UG/KG        | 410 U  | 400 U  | 53000 R | 2500  |
| Pyrene                      | UG/KG        | 410 U  | 400 U  | 32000 R | 1700  |
| Butyl benzyl phthalate      | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Benzo[a]anthracene          | UG/KG        | 410 U  | 400 U  | 24000   | 1200  |
| Chrysene                    | UG/KG        | 410 U  | 400 U  | 22000   | 1100  |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 1100   | 75 J   | 960 J   | 1100  |
| di-n-Octylphthalate         | UG/KG        | 410 U  | 400 U  | 3900 U  | 380 U |
| Benzo[b]fluoranthene        | UG/KG        | 410 U  | 400 U  | 21000   | 1600  |
| Benzo[k]fluoranthene        | UG/KG        | 410 U  | 400 U  | 18000   | 110 J |
| Benzo[a]pyrene              | UG/KG        | 410 U  | 400 U  | 21000   | 1200  |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 410 U  | 400 U  | 11000   | 500   |
| Dibenz[a,h]anthracene       | UG/KG        | 410 U  | 400 U  | 2800 J  | 54 J  |
| Benzo[g,h,i]perylene        | UG/KG        | 410 U  | 400 U  | 10000   | 450   |

SITE 28  
 HADNOT POINT BURN DUMP  
 SUBSURFACE SOILS - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |              |               |              |               |
|-----------------------|--------------|---------------|--------------|---------------|
| Client Sample ID:     | 28-W-SB06-05 | 28-W-SB06-05D | 28-W-SB11-03 | 28-W-SB11-03D |
| Laboratory Sample ID: | 940248-06    | 940248-07     | 940248-12    | 940248-13     |
| Date Sampled:         | 3/27/94      | 3/27/94       | 3/27/94      | 3/27/94       |

|                        | <u>UNITS</u> |        |         |        |        |
|------------------------|--------------|--------|---------|--------|--------|
| <u>PESTICIDES/PCBs</u> |              |        |         |        |        |
| alpha-BHC              | UG/KG        | 21 UJ  | 21 UJ   | 2.0 UJ | 2.0 UJ |
| beta-BHC               | UG/KG        | 21 U   | 21 UJ   | 2.0 UJ | 2.0 UJ |
| delta-BHC              | UG/KG        | 21 U   | 21 UJ   | 2.0 UJ | 2.0 UJ |
| Lindane (gamma-BHC)    | UG/KG        | 21 UJ  | 21 UJ   | 2.0 UJ | 2.0 UJ |
| Heptachlor             | UG/KG        | 21 U   | 21 UJ   | 2.0 UJ | 2.0 UJ |
| Aldrin                 | UG/KG        | 21 U   | 21 UJ   | 2.0 UJ | 2.0 UJ |
| Heptachlor epoxide     | UG/KG        | 21 U   | 21 UJ   | 2.0 UJ | 2.0 UJ |
| Endosulfan I           | UG/KG        | 21 U   | 21 UJ   | 2.0 UJ | 2.0 UJ |
| Dieldrin               | UG/KG        | 41 U   | 40 UJ   | 3.9 UJ | 3.8 UJ |
| 4,4'-DDE               | UG/KG        | 500    | 330 J   | 41 J   | 21 J   |
| Endrin                 | UG/KG        | 41 U   | 40 UJ   | 3.9 UJ | 3.8 UJ |
| Endosulfan II          | UG/KG        | 41 U   | 40 UJ   | 3.9 UJ | 3.8 UJ |
| 4,4'-DDD               | UG/KG        | 130    | 72 J    | 60 J   | 7.5 J  |
| Endosulfan sulfate     | UG/KG        | 41 U   | 40 UJ   | 3.9 UJ | 3.8 UJ |
| 4,4'-DDT               | UG/KG        | 41 UJ  | 40 UJ   | 3.9 UJ | 6.1 J  |
| Methoxychlor           | UG/KG        | 210 U  | 210 UJ  | 20 UJ  | 20 UJ  |
| Endrin ketone          | UG/KG        | 41 U   | 40 UJ   | 3.9 UJ | 3.8 UJ |
| Endrin aldehyde        | UG/KG        | 41 U   | 40 UJ   | 3.9 UJ | 3.8 UJ |
| alpha-Chlordane        | UG/KG        | 45 J   | 23 J    | 2.0 UJ | 2.5 J  |
| gamma-Chlordane        | UG/KG        | 21 U   | 21 UJ   | 2.7 J  | 2.0 UJ |
| Toxaphene              | UG/KG        | 2100 U | 2100 UJ | 200 UJ | 200 UJ |
| Aroclor 1016           | UG/KG        | 410 U  | 400 UJ  | 39 UJ  | 38 UJ  |
| Aroclor 1221           | UG/KG        | 840 U  | 820 UJ  | 79 UJ  | 77 UJ  |
| Aroclor 1232           | UG/KG        | 410 U  | 400 UJ  | 39 UJ  | 38 UJ  |
| Aroclor 1242           | UG/KG        | 410 U  | 400 UJ  | 39 UJ  | 38 UJ  |
| Aroclor 1248           | UG/KG        | 410 U  | 400 UJ  | 39 UJ  | 38 UJ  |
| Aroclor 1254           | UG/KG        | 410 U  | 400 UJ  | 39 UJ  | 38 UJ  |
| Aroclor 1260           | UG/KG        | 410 U  | 400 UJ  | 39 UJ  | 38 UJ  |

SITE 28  
 HADNOT POINT BURN DUMP  
 SHALLOW AND DEEP GROUNDWATER  
 FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 DISSOLVED METALS

|                       |               |                |             |              |
|-----------------------|---------------|----------------|-------------|--------------|
| Client Sample ID:     | 28-GW01DWD-01 | 28-GW01DWD-01D | 28-GW07D-01 | 28-GW07D-01D |
| Laboratory Sample ID: | 940389-06     | 940389-07      | 940334-05   | 940334-06    |
| Date Sampled:         | 5/7/94        | 5/7/94         | 4/21/94     | 4/21/94      |

|           | UNITS |        |        |        |        |
|-----------|-------|--------|--------|--------|--------|
| Aluminum  | UG/KG | 33.0 U | 33.0 U | 33 U   | 33.0 U |
| Antimony  | UG/KG | 34.0 U | 39.9   | 34.0 U | 47.1   |
| Arsenic   | UG/KG | 4.6    | 4.9    | 4.0    | 3.5    |
| Barium    | UG/KG | 23.8   | 27.2   | 412    | 437    |
| Beryllium | UG/KG | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Cadmium   | UG/KG | 3.0 UJ | 3.0 UJ | 3.0 U  | 3.0 U  |
| Calcium   | UG/KG | 90400  | 92600  | 105000 | 110000 |
| Chromium  | UG/KG | 7.0 UJ | 7.0 UJ | 7.0 UJ | 7.0 UJ |
| Cobalt    | UG/KG | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  |
| Copper    | UG/KG | 6.0 U  | 6.0 U  | 6.0 U  | 6.0 U  |
| Iron      | UG/KG | 23.4 U | 33.4 U | 15100  | 23300  |
| Lead      | UG/KG | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Magnesium | UG/KG | 13900  | 14200  | 41200  | 41500  |
| Manganese | UG/KG | 31.0   | 31.0   | 264    | 269    |
| Mercury   | UG/KG | 0.13 U | 0.13 U | 0.14 U | 0.14 U |
| Nickel    | UG/KG | 7.1    | 7.0 U  | 7.0 U  | 7.0 U  |
| Potassium | UG/KG | 17300  | 17900  | 61700  | 59900  |
| Selenium  | UG/KG | 4.0 UJ | 4.0 UJ | 4.0 UJ | 4.0 UJ |
| Silver    | UG/KG | 5.0 UJ | 5.0 UJ | 5.0 UJ | 5.0 UJ |
| Sodium    | UG/KG | 778000 | 757000 | 233000 | 229000 |
| Thallium  | UG/KG | 4.0 UJ | 4.3 J  | 4.0 UJ | 4.0 UJ |
| Vanadium  | UG/KG | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  |
| Zinc      | UG/KG | 4.8 U  | 3.0 U  | 17.4 U | 14.0 U |

SITE 28  
 HADNOT POINT BURN DUMP  
 SHALLOW AND DEEP GROUNDWATER  
 FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |              |              |            |             |
|-----------------------|--------------|--------------|------------|-------------|
| Client Sample ID:     | 28-GW01DW-01 | 28GW01DW-01D | 28-GW07-01 | 28-GW07-01D |
| Laboratory Sample ID: | 940389-04    | 940389-05    | 940334-03  | 940334-04   |
| Date Sampled:         | 5/7/94       | 5/7/94       | 4/21/94    | 4/21/94     |

|           | UNITS |        |        |        |        |
|-----------|-------|--------|--------|--------|--------|
| Aluminum  | UG/L  | 253    | 207    | 72800  | 56600  |
| Antimony  | UG/L  | 34.0 U | 34.0 U | 5340   | 4170   |
| Arsenic   | UG/L  | 5.2    | 4.3    | 76.7   | 59.7   |
| Barium    | UG/L  | 29.1   | 26.0   | 1980   | 1540   |
| Beryllium | UG/L  | 1.0 U  | 1.0 U  | 3.5    | 3.3    |
| Cadmium   | UG/L  | 3.0 UJ | 3.0 UJ | 35.4   | 24.8   |
| Calcium   | UG/L  | 96200  | 88900  | 200000 | 155000 |
| Chromium  | UG/L  | 7.0 UJ | 7.0 UJ | 308 J  | 232 J  |
| Cobalt    | UG/L  | 5.2 U  | 4.0 U  | 30.4   | 21.4   |
| Copper    | UG/L  | 6.0 U  | 6.0 U  | 2250   | 1660   |
| Iron      | UG/L  | 417    | 333    | 245000 | 179000 |
| Lead      | UG/L  | 1.5    | 1.0 U  | 4810   | 3720   |
| Magnesium | UG/L  | 13600  | 12600  | 52900  | 45500  |
| Manganese | UG/L  | 29.6   | 29.8   | 3330   | 2290   |
| Mercury   | UG/L  | 0.13 U | 0.14 U | 2.0 J  | 2.4 J  |
| Nickel    | UG/L  | 10.4   | 7.0 U  | 165    | 126    |
| Potassium | UG/L  | 17100  | 15800  | 63500  | 60200  |
| Selenium  | UG/L  | 4.0 UJ | 4.0 UJ | 5.6 J  | 4.0 UJ |
| Silver    | UG/L  | 5.0 UJ | 5.0 UJ | 37.9 J | 29.0 J |
| Sodium    | UG/L  | 744000 | 613000 | 223000 | 215000 |
| Thallium  | UG/L  | 6.9 J  | 4.8 J  | 4.0 UJ | 4.0 UJ |
| Vanadium  | UG/L  | 3.0 U  | 3.5    | 120    | 91.2   |
| Zinc      | UG/L  | 14.9 U | 12.8 U | 9220   | 6710   |

SITE 28  
HADNOT POINT BURN DUMP  
SHALLOW AND DEEP GROUNDWATER  
FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-GW01DW-01 | 28-GW01DW-01D | 28-GW07-01 | 28-GW07-01D |
| Laboratory Sample ID: | 940389-04    | 940389-05     | 940334-03  | 940334-04   |
| Date Sampled:         | 5/7/94       | 5/7/94        | 4/21/94    | 4/21/94     |

|                           | <u>UNITS</u> |     |     |     |     |
|---------------------------|--------------|-----|-----|-----|-----|
| <u>VOLATILES</u>          |              |     |     |     |     |
| Chloromethane             | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Bromomethane              | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Vinyl chloride            | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Chloroethane              | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Methylene chloride        | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethene        | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethane        | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloroethene(total) | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Chloroform                | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloroethane        | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,1,1-Trichloroethane     | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Carbon tetrachloride      | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Bromodichloromethane      | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloropropane       | UG/L         | 2 U | 2 U | 2 U | 2 U |
| cis-1,3-Dichloropropene   | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Trichloroethene           | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Dibromochloromethane      | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,1,2-Trichloroethane     | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Benzene                   | UG/L         | 2 U | 2 U | 2 U | 2 U |
| trans-1,3-Dichloropropene | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 2-Chloroethylvinylether   | UG/L         | 2 R | 2 R | 2 U | 2 U |
| Bromoform                 | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Tetrachloroethene         | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Toluene                   | UG/L         | 2 U | 2 U | 3   | 2 U |
| Chlorobenzene             | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Ethylbenzene              | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Xylene (total)            | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,3-Dichlorobenzene       | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,4-Dichlorobenzene       | UG/L         | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene       | UG/L         | 2 U | 2 U | 2 U | 2 U |
| Trichlorofluoromethane    | UG/L         | 2 U | 2 U | 2 U | 2 U |



SITE 28  
 HADNOT POINT BURN DUMP  
 SHALLOW AND DEEP GROUNDWATER  
 FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-GW01DW-01 | 28-GW01DW-01D | 28-GW07-01 | 28-GW07-01D |
| Laboratory Sample ID: | 940389-04    | 940389-05     | 940334-03  | 940334-04   |
| Date Sampled:         | 5/7/94       | 5/7/94        | 4/21/94    | 4/21/94     |

|                               | <u>UNITS</u> |      |      |      |      |
|-------------------------------|--------------|------|------|------|------|
| <b>SEMIVOLATILES</b>          |              |      |      |      |      |
| Phenol                        | UG/L         | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether      | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol                | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol                | UG/L         | 10 U | 10 U | 1 J  | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol                | UG/L         | 10 U | 10 U | 29   | 15   |
| N-Nitroso-di-n-propylamine    | UG/L         | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane              | UG/L         | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene                  | UG/L         | 10 U | 10 U | 10 U | 10 U |
| Isophorone                    | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol            | UG/L         | 10 U | 10 U | 2 J  | 1 J  |
| bis(2-Chloroethoxy) methane   | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol            | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L         | 10 U | 10 U | 10 U | 10 U |
| Naphthalene                   | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline               | UG/L         | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene           | UG/L         | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol         | UG/L         | 25 U | 25 U | 25 U | 25 U |
| 2-Chloronaphthalene           | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline                | UG/L         | 25 U | 25 U | 25 U | 25 U |
| Dimethyl phthalate            | UG/L         | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene                | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L         | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline                | UG/L         | 25 U | 25 U | 25 U | 25 U |

SITE 28  
 HADNOT POINT BURN DUMP  
 SHALLOW AND DEEP GROUNDWATER  
 FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-GW01DW-01 | 28-GW01DW-01D | 28-GW07-01 | 28-GW07-01D |
| Laboratory Sample ID: | 940389-04    | 940389-05     | 940334-03  | 940334-04   |
| Date Sampled:         | 5/7/94       | 5/7/94        | 4/21/94    | 4/21/94     |

UNITS

SEMIVOLATILES cont.

|                             | UG/L | 10 U | 10 U | 10 U  | 10 U  |
|-----------------------------|------|------|------|-------|-------|
| Acenaphthene                | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| 2,4-Dinitrophenol           | UG/L | 25 U | 25 U | 25 U  | 25 UJ |
| 4-Nitrophenol               | UG/L | 25 U | 25 U | 25 U  | 25 U  |
| Dibenzofuran                | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| 2,4-Dinitrotoluene          | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Diethylphthalate            | UG/L | 10 U | 10 U | 10 U  | 10 UJ |
| 4-Chlorophenyl phenyl ether | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Fluorene                    | UG/L | 10 U | 10 U | 10 U  | 10 UJ |
| 4-Nitroaniline              | UG/L | 25 U | 25 U | 25 U  | 25 U  |
| 4,6-Dinitro-2-methylphenol  | UG/L | 25 U | 25 U | 25 U  | 25 U  |
| N-nitrosodiphenylamine      | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| 4-Bromophenyl-phenylether   | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Hexachlorobenzene           | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Pentachlorophenol           | UG/L | 25 U | 25 U | 25 U  | 25 U  |
| Phenanthrene                | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Anthracene                  | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Carbazole                   | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| di-n-Butylphthalate         | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Fluoranthene                | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Pyrene                      | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Butyl benzyl phthalate      | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| 3,3'-Dichlorobenzidine      | UG/L | 10 U | 10 U | 10 UJ | 10 UJ |
| Benzo[a]anthracene          | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Chrysene                    | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| bis(2-Ethylhexyl)phthalate  | UG/L | 10 U | 10 U | 17    | 10 U  |
| di-n-Octylphthalate         | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Benzo[b]fluoranthene        | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Benzo[k]fluoranthene        | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Benzo[a]pyrene              | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Indeno[1,2,3-cd]pyrene      | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Dibenz[a,h]anthracene       | UG/L | 10 U | 10 U | 10 U  | 10 U  |
| Benzo[g,h,i]perylene        | UG/L | 10 U | 10 U | 10 U  | 10 U  |

SITE 28  
 HADNOT POINT BURN DUMP  
 SHALLOW AND DEEP GROUNDWATER  
 FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |              |               |            |             |
|-----------------------|--------------|---------------|------------|-------------|
| Client Sample ID:     | 28-GW01DW-01 | 28-GW01DW-01D | 28-GW07-01 | 28-GW07-01D |
| Laboratory Sample ID: | 940389-04    | 940389-05     | 940334-03  | 940334-04   |
| Date Sampled:         | 5/7/94       | 5/7/94        | 4/21/94    | 4/21/94     |

|                        | <u>UNITS</u> |         |         |        |         |
|------------------------|--------------|---------|---------|--------|---------|
| <u>PESTICIDES/PCBs</u> |              |         |         |        |         |
| alpha-BHC              | UG/L         | 0.05 U  | 0.05 UJ | 0.50 U | 0.05 UJ |
| beta-BHC               | UG/L         | 0.05 U  | 0.05 UJ | 0.50 U | 0.05 U  |
| delta-BHC              | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| Lindane (gamma-BHC)    | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| Heptachlor             | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| Aldrin                 | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| Heptachlor epoxide     | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| Endosulfan I           | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| Dieldrin               | UG/L         | 0.10 UJ | 0.10 UJ | 1.0 U  | 0.10 U  |
| 4,4'-DDE               | UG/L         | 0.10 UJ | 0.10 UJ | 0.67 J | 0.047 J |
| Endrin                 | UG/L         | 0.10 UJ | 0.10 UJ | 1.0 U  | 0.10 U  |
| Endosulfan II          | UG/L         | 0.10 UJ | 0.10 UJ | 1.0 U  | 0.10 U  |
| 4,4'-DDD               | UG/L         | 0.10 UJ | 0.10 UJ | 9.0    | 0.63    |
| Endosulfan sulfate     | UG/L         | 0.10 UJ | 0.10 UJ | 1.0 U  | 0.10 U  |
| 4,4'-DDT               | UG/L         | 0.10 UJ | 0.10 UJ | 1.0 U  | 0.10 U  |
| Methoxychlor           | UG/L         | 0.50 UJ | 0.50 UJ | 5.0 U  | 0.50 U  |
| Endrin ketone          | UG/L         | 0.10 UJ | 0.10 UJ | 1.0 U  | 0.10 U  |
| Endrin aldehyde        | UG/L         | 0.10 UJ | 0.10 UJ | 1.0 U  | 0.10 U  |
| alpha-Chlordane        | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| gamma-Chlordane        | UG/L         | 0.05 UJ | 0.05 UJ | 0.50 U | 0.05 U  |
| Toxaphene              | UG/L         | 5.0 UJ  | 5.0 UJ  | 50 U   | 5.0 U   |
| Aroclor 1016           | UG/L         | 1.0 UJ  | 1.0 UJ  | 10 U   | 1.0 U   |
| Aroclor 1221           | UG/L         | 2.0 UJ  | 2.0 UJ  | 20 U   | 2.0 U   |
| Aroclor 1232           | UG/L         | 1.0 UJ  | 1.0 UJ  | 10 U   | 1.0 U   |
| Aroclor 1242           | UG/L         | 1.0 UJ  | 1.0 UJ  | 10 U   | 1.0 U   |
| Aroclor 1248           | UG/L         | 1.0 UJ  | 1.0 UJ  | 10 U   | 1.0 U   |
| Aroclor 1254           | UG/L         | 1.0 UJ  | 1.0 UJ  | 10 U   | 1.0 U   |
| Aroclor 1260           | UG/L         | 1.0 UJ  | 1.0 UJ  | 10 U   | 1.0 U   |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-OP-SW01 | 28-OP-SW01D |
| Laboratory Sample ID: | 940250-04  | 940250-05   |
| Date Sampled:         | 3/28/94    | 3/28/94     |

|           | <u>UNITS</u> |        |        |
|-----------|--------------|--------|--------|
| Aluminum  | UG/KG        | 170    | 142    |
| Antimony  | UG/KG        | 34.0 U | 34.0 U |
| Arsenic   | UG/KG        | 3.0 U  | 3.0 U  |
| Barium    | UG/KG        | 7.0 U  | 7.0 U  |
| Beryllium | UG/KG        | 1.0 U  | 1.0 U  |
| Cadmium   | UG/KG        | 3.0 U  | 3.0 U  |
| Calcium   | UG/KG        | 7610   | 8270   |
| Chromium  | UG/KG        | 7.0 U  | 7.0 U  |
| Cobalt    | UG/KG        | 4.0 U  | 4.0 U  |
| Copper    | UG/KG        | 6.0 U  | 6.0 U  |
| Iron      | UG/KG        | 421 J  | 444 J  |
| Lead      | UG/KG        | 1.0 U  | 1.0 U  |
| Magnesium | UG/KG        | 693    | 729    |
| Manganese | UG/KG        | 1.0 UJ | 1.0 UJ |
| Mercury   | UG/KG        | 0.13 U | 0.14 U |
| Nickel    | UG/KG        | 7.0 U  | 7.0 U  |
| Potassium | UG/KG        | 1100 J | 1080 J |
| Selenium  | UG/KG        | 4.0 U  | 4.0 U  |
| Silver    | UG/KG        | 5.0 UJ | 5.0 UJ |
| Sodium    | UG/KG        | 3070 J | 3330 J |
| Thallium  | UG/KG        | 4.0 U  | 4.0 U  |
| Vanadium  | UG/KG        | 3.0 U  | 3.0 U  |
| Zinc      | UG/KG        | 3.8 U  | 3.5 U  |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-OP-SW01 | 28-OP-SW01D |
| Laboratory Sample ID: | 940250-04  | 940250-05   |
| Date Sampled:         | 3/28/94    | 3/28/94     |

|                           | <u>UNITS</u> |      |      |
|---------------------------|--------------|------|------|
| <u>VOLATILES</u>          |              |      |      |
| Chloromethane             | UG/L         | 10 U | 10 U |
| Bromomethane              | UG/L         | 10 U | 10 U |
| Vinyl chloride            | UG/L         | 10 U | 10 U |
| Chloroethane              | UG/L         | 10 U | 10 U |
| Methylene chloride        | UG/L         | 10   | 10 U |
| Acetone                   | UG/L         | 10 U | 11 U |
| Carbon Disulfide          | UG/L         | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L         | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L         | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L         | 10 U | 10 U |
| Chloroform                | UG/L         | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L         | 10 U | 10 U |
| 2-Butanone                | UG/L         | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L         | 10 U | 10 U |
| Carbon tetrachloride      | UG/L         | 10 U | 10 U |
| Bromodichloromethane      | UG/L         | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L         | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L         | 10 U | 10 U |
| Trichloroethene           | UG/L         | 10 U | 10 U |
| Dibromochloromethane      | UG/L         | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L         | 10 U | 10 U |
| Benzene                   | UG/L         | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L         | 10 U | 10 U |
| Bromoform                 | UG/L         | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L         | 10 U | 10 U |
| 2-Hexanone                | UG/L         | 10 U | 10 U |
| Tetrachloroethene         | UG/L         | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 10 U | 10 U |
| Toluene                   | UG/L         | 10 U | 10 U |
| Chlorobenzene             | UG/L         | 10 U | 10 U |
| Ethylbenzene              | UG/L         | 10 U | 10 U |
| Styrene                   | UG/L         | 10 U | 10 U |
| Xylenes (total)           | UG/L         | 10 U | 10 U |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-OP-SW01 | 28-OP-SW01D |
| Laboratory Sample ID: | 940250-04  | 940250-05   |
| Date Sampled:         | 3/28/94    | 3/28/94     |

|                              | <u>UNITS</u> |      |      |
|------------------------------|--------------|------|------|
| <u>SEMIVOLATILES</u>         |              |      |      |
| Phenol                       | UG/L         | 10 U | 10 U |
| bis(2-Chloroethyl) ether     | UG/L         | 10 U | 10 U |
| 2-Chlorophenol               | UG/L         | 10 U | 10 U |
| 1,3-Dichlorobenzene          | UG/L         | 10 U | 10 U |
| 1,4-Dichlorobenzene          | UG/L         | 10 U | 10 U |
| 1,2-Dichlorobenzene          | UG/L         | 10 U | 10 U |
| 2-Methylphenol               | UG/L         | 10 U | 10 U |
| 2,2-oxybis-(1-chloropropane) | UG/L         | 10 U | 10 U |
| 4-Methylphenol               | UG/L         | 10 U | 10 U |
| N-Nitroso-di-n-propylamine   | UG/L         | 10 U | 10 U |
| Hexachloroethane             | UG/L         | 10 U | 10 U |
| Nitrobenzene                 | UG/L         | 10 U | 10 U |
| Isophorone                   | UG/L         | 10 U | 10 U |
| 2-Nitrophenol                | UG/L         | 10 U | 10 U |
| 2,4-Dimethylphenol           | UG/L         | 10 U | 10 U |
| bis(2-Chloroethoxy) methane  | UG/L         | 10 U | 10 U |
| 2,4-Dichlorophenol           | UG/L         | 10 U | 10 U |
| 1,2,4-Trichlorobenzene       | UG/L         | 10 U | 10 U |
| Naphthalene                  | UG/L         | 10 U | 10 U |
| 4-Chloroaniline              | UG/L         | 10 U | 10 U |
| Hexachlorobutadiene          | UG/L         | 10 U | 10 U |
| 4-Chloro-3-methylphenol      | UG/L         | 10 U | 10 U |
| 2-Methylnaphthalene          | UG/L         | 10 U | 10 U |
| Hexachlorocyclopentadiene    | UG/L         | 10 U | 10 U |
| 2,4,6-Trichlorophenol        | UG/L         | 10 U | 10 U |
| 2,4,5-Trichlorophenol        | UG/L         | 25 U | 25 U |
| 2-Chloronaphthalene          | UG/L         | 10 U | 10 U |
| 2-Nitroaniline               | UG/L         | 25 U | 25 U |
| Dimethyl phthalate           | UG/L         | 10 U | 10 U |
| Acenaphthylene               | UG/L         | 10 U | 10 U |
| 2,6-Dinitrotoluene           | UG/L         | 10 U | 10 U |
| 3-Nitroaniline               | UG/L         | 25 U | 25 U |
| Acenaphthene                 | UG/L         | 10 U | 10 U |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-OP-SW01 | 28-OP-SW01D |
| Laboratory Sample ID: | 940250-04  | 940250-05   |
| Date Sampled:         | 3/28/94    | 3/28/94     |

|                             | <u>UNITS</u> |       |       |
|-----------------------------|--------------|-------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |       |       |
| 2,4-Dinitrophenol           | UG/L         | 25 U  | 25 U  |
| 4-Nitrophenol               | UG/L         | 25 U  | 25 U  |
| Dibenzofuran                | UG/L         | 10 U  | 10 U  |
| 2,4-Dinitrotoluene          | UG/L         | 10 U  | 10 U  |
| Diethylphthalate            | UG/L         | 10 U  | 10 U  |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U  | 10 U  |
| Fluorene                    | UG/L         | 10 U  | 10 U  |
| 4-Nitroaniline              | UG/L         | 25 U  | 25 U  |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U  | 25 U  |
| N-nitrosodiphenylamine      | UG/L         | 10 U  | 10 U  |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U  | 10 U  |
| Hexachlorobenzene           | UG/L         | 10 U  | 10 U  |
| Pentachlorophenol           | UG/L         | 25 U  | 25 U  |
| Phenanthrene                | UG/L         | 10 U  | 10 U  |
| Anthracene                  | UG/L         | 10 U  | 10 U  |
| Carbazole                   | UG/L         | 10 UJ | 10 UJ |
| di-n-Butylphthalate         | UG/L         | 10 U  | 10 U  |
| Fluoranthene                | UG/L         | 10 U  | 10 U  |
| Pyrene                      | UG/L         | 10 U  | 10 U  |
| Butyl benzyl phthalate      | UG/L         | 10 U  | 10 U  |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 U  | 10 U  |
| Benzo[a]anthracene          | UG/L         | 10 U  | 10 U  |
| Chrysene                    | UG/L         | 10 U  | 10 U  |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 10 U  | 10 U  |
| di-n-Octylphthalate         | UG/L         | 10 U  | 10 U  |
| Benzo[b]fluoranthene        | UG/L         | 10 U  | 10 U  |
| Benzo[k]fluoranthene        | UG/L         | 10 U  | 10 U  |
| Benzo[a]pyrene              | UG/L         | 10 U  | 10 U  |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U  | 10 U  |
| Dibenz[a,h]anthracene       | UG/L         | 10 U  | 10 U  |
| Benzo[g,h,i]perylene        | UG/L         | 10 U  | 10 U  |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-OP-SW01 | 28-OP-SW01D |
| Laboratory Sample ID: | 940250-04  | 940250-05   |
| Date Sampled:         | 3/28/94    | 3/28/94     |

|                        | <u>UNITS</u> |        |    |
|------------------------|--------------|--------|----|
| <u>PESTICIDES/PCBs</u> |              |        |    |
| alpha-BHC              | UG/L         | 0.05 U | NA |
| beta-BHC               | UG/L         | 0.05 U | NA |
| delta-BHC              | UG/L         | 0.05 U | NA |
| Lindane (gamma-BHC)    | UG/L         | 0.05 U | NA |
| Heptachlor             | UG/L         | 0.05 U | NA |
| Aldrin                 | UG/L         | 0.05 U | NA |
| Heptachlor epoxide     | UG/L         | 0.05 U | NA |
| Endosulfan I           | UG/L         | 0.05 U | NA |
| Dieldrin               | UG/L         | 0.10 U | NA |
| 4,4'-DDE               | UG/L         | 0.10 U | NA |
| Endrin                 | UG/L         | 0.10 U | NA |
| Endosulfan II          | UG/L         | 0.10 U | NA |
| 4,4'-DDD               | UG/L         | 0.10 U | NA |
| Endosulfan sulfate     | UG/L         | 0.10 U | NA |
| 4,4'-DDT               | UG/L         | 0.10 U | NA |
| Methoxychlor           | UG/L         | 0.50 U | NA |
| Endrin ketone          | UG/L         | 0.10 U | NA |
| Endrin aldehyde        | UG/L         | 0.10 U | NA |
| alpha-Chlordane        | UG/L         | 0.05 U | NA |
| gamma-Chlordane        | UG/L         | 0.05 U | NA |
| Toxaphene              | UG/L         | 5.0 U  | NA |
| Aroclor 1016           | UG/L         | 1.0 U  | NA |
| Aroclor 1221           | UG/L         | 2.0 U  | NA |
| Aroclor 1232           | UG/L         | 1.0 U  | NA |
| Aroclor 1242           | UG/L         | 1.0 U  | NA |
| Aroclor 1248           | UG/L         | 1.0 U  | NA |
| Aroclor 1254           | UG/L         | 1.0 U  | NA |
| Aroclor 1260           | UG/L         | 1.0 U  | NA |



SITE 28  
 HADNOT POINT BURN DUMP - NEW RIVER  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-NR-SW04 | 28-NR-SW04D |
| Laboratory Sample ID: | 940250-27  | 940250-28   |
| Date Sampled:         | 3/29/94    | 3/29/94     |

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|           | UNITS |         |         |
|-----------|-------|---------|---------|
| Aluminum  | UG/L  | 817     | 753     |
| Antimony  | UG/L  | 34.0 U  | 34.0 U  |
| Arsenic   | UG/L  | 3.0 U   | 3.0 U   |
| Barium    | UG/L  | 17.3    | 18.5    |
| Beryllium | UG/L  | 1.0 U   | 1.0 U   |
| Cadmium   | UG/L  | 3.0 U   | 3.0 U   |
| Calcium   | UG/L  | 36700   | 38200   |
| Chromium  | UG/L  | 7.0 U   | 7.0 U   |
| Cobalt    | UG/L  | 4.0 U   | 4.0 U   |
| Copper    | UG/L  | 6.0 U   | 6.0 U   |
| Iron      | UG/L  | 1190    | 1170    |
| Lead      | UG/L  | 1.0 U   | 1.0 U   |
| Magnesium | UG/L  | 4910 J  | 4660 J  |
| Manganese | UG/L  | 49.8    | 53.8    |
| Mercury   | UG/L  | 0.14 U  | 0.14 U  |
| Nickel    | UG/L  | 7.0 U   | 7.0 U   |
| Potassium | UG/L  | 2310 J  | 2170 J  |
| Selenium  | UG/L  | 4.0 U   | 4.0 U   |
| Silver    | UG/L  | 5.0 UJ  | 5.0 UJ  |
| Sodium    | UG/L  | 31100 J | 28200 J |
| Thallium  | UG/L  | 5.6 J   | 4.0 U   |
| Vanadium  | UG/L  | 3.0 U   | 3.0 U   |
| Zinc      | UG/L  | 9.2 U   | 269     |

SITE 28  
 HADNOT POINT BURN DUMP - NEW RIVER  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-NR-SW04 | 28-NR-SW04D |
| Laboratory Sample ID: | 940250-27  | 940250-28   |
| Date Sampled:         | 3/29/94    | 3/29/94     |

|                           | <u>UNITS</u> |      |      |
|---------------------------|--------------|------|------|
| <u>VOLATILES</u>          |              |      |      |
| Chloromethane             | UG/L         | 10 U | 10 U |
| Bromomethane              | UG/L         | 10 U | 10 U |
| Vinyl chloride            | UG/L         | 10 U | 10 U |
| Chloroethane              | UG/L         | 10 U | 10 U |
| Methylene chloride        | UG/L         | 10 U | 10 U |
| Acetone                   | UG/L         | 10 U | 13 J |
| Carbon Disulfide          | UG/L         | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L         | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L         | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L         | 10 U | 10 U |
| Chloroform                | UG/L         | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L         | 10 U | 10 U |
| 2-Butanone                | UG/L         | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L         | 10 U | 10 U |
| Carbon tetrachloride      | UG/L         | 10 U | 10 U |
| Bromodichloromethane      | UG/L         | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L         | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L         | 10 U | 10 U |
| Trichloroethene           | UG/L         | 10 U | 10 U |
| Dibromochloromethane      | UG/L         | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L         | 10 U | 10 U |
| Benzene                   | UG/L         | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L         | 10 U | 10 U |
| Bromoform                 | UG/L         | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L         | 10 U | 10 U |
| 2-Hexanone                | UG/L         | 10 U | 10 U |
| Tetrachloroethene         | UG/L         | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 10 U | 10 U |
| Toluene                   | UG/L         | 10 U | 10 U |
| Chlorobenzene             | UG/L         | 10 U | 10 U |
| Ethylbenzene              | UG/L         | 10 U | 10 U |
| Styrene                   | UG/L         | 10 U | 10 U |
| Xylenes (total)           | UG/L         | 10 U | 10 U |

SITE 28  
 HADNOT POINT BURN DUMP - NEW RIVER  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-NR-SW04 | 28-NR-SW04D |
| Laboratory Sample ID: | 940250-27  | 940250-28   |
| Date Sampled:         | 3/29/94    | 3/29/94     |

|                               | <u>UNITS</u> |      |      |
|-------------------------------|--------------|------|------|
| <u>SEMIVOLATILES</u>          |              |      |      |
| Phenol                        | UG/L         | 10 U | 10 R |
| bis(2-Chloroethyl) ether      | UG/L         | 10 U | 10 R |
| 2-Chlorophenol                | UG/L         | 10 U | 10 R |
| 1,3-Dichlorobenzene           | UG/L         | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L         | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L         | 10 U | 10 U |
| 2-Methylphenol                | UG/L         | 10 U | 10 R |
| 2,2'-oxybis-(1-chloropropane) | UG/L         | 10 U | 10 U |
| 4-Methylphenol                | UG/L         | 10 U | 10 R |
| N-Nitroso-di-n-propylamine    | UG/L         | 10 U | 10 R |
| Hexachloroethane              | UG/L         | 10 U | 10 U |
| Nitrobenzene                  | UG/L         | 10 U | 10 U |
| Isophorone                    | UG/L         | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L         | 10 U | 10 R |
| 2,4-Dimethylphenol            | UG/L         | 10 U | 10 R |
| bis(2-Chloroethoxy) methane   | UG/L         | 10 U | 10 R |
| 2,4-Dichlorophenol            | UG/L         | 10 U | 10 R |
| 1,2,4-Trichlorobenzene        | UG/L         | 10 U | 10 U |
| Naphthalene                   | UG/L         | 10 U | 10 U |
| 4-Chloroaniline               | UG/L         | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L         | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L         | 10 U | 10 R |
| 2-Methylnaphthalene           | UG/L         | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L         | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L         | 10 U | 10 R |
| 2,4,5-Trichlorophenol         | UG/L         | 25 U | 25 R |
| 2-Chloronaphthalene           | UG/L         | 10 U | 10 U |
| 2-Nitroaniline                | UG/L         | 25 U | 25 U |
| Dimethyl phthalate            | UG/L         | 10 U | 1 J  |
| Acenaphthylene                | UG/L         | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L         | 10 U | 10 U |
| 3-Nitroaniline                | UG/L         | 25 U | 25 U |
| Acenaphthene                  | UG/L         | 10 U | 10 U |

SITE 28  
 HADNOT POINT BURN DUMP - NEW RIVER  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-NR-SW04 | 28-NR-SW04D |
| Laboratory Sample ID: | 940250-27  | 940250-28   |
| Date Sampled:         | 3/29/94    | 3/29/94     |

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|                             | <u>UNITS</u> |       |       |
|-----------------------------|--------------|-------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |       |       |
| 2,4-Dinitrophenol           | UG/L         | 25 U  | 25 R  |
| 4-Nitrophenol               | UG/L         | 25 U  | 25 R  |
| Dibenzofuran                | UG/L         | 10 U  | 10 U  |
| 2,4-Dinitrotoluene          | UG/L         | 10 U  | 10 U  |
| Diethylphthalate            | UG/L         | 10 U  | 10 U  |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U  | 10 R  |
| Fluorene                    | UG/L         | 10 U  | 10 U  |
| 4-Nitroaniline              | UG/L         | 25 U  | 25 U  |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U  | 25 R  |
| N-nitrosodiphenylamine      | UG/L         | 10 U  | 10 R  |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U  | 10 R  |
| Hexachlorobenzene           | UG/L         | 10 U  | 10 U  |
| Pentachlorophenol           | UG/L         | 25 U  | 25 R  |
| Phenanthrene                | UG/L         | 10 U  | 10 U  |
| Anthracene                  | UG/L         | 10 U  | 10 U  |
| Carbazole                   | UG/L         | 10 UJ | 10 UJ |
| di-n-Butylphthalate         | UG/L         | 10 U  | 10 U  |
| Fluoranthene                | UG/L         | 10 U  | 10 U  |
| Pyrene                      | UG/L         | 10 U  | 10 U  |
| Butyl benzyl phthalate      | UG/L         | 10 U  | 10 U  |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 U  | 10 U  |
| Benzo[a]anthracene          | UG/L         | 10 U  | 10 U  |
| Chrysene                    | UG/L         | 10 U  | 10 U  |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 1 J   | 10 U  |
| di-n-Octylphthalate         | UG/L         | 10 U  | 10 UJ |
| Benzo[b]fluoranthene        | UG/L         | 10 U  | 10 UJ |
| Benzo[k]fluoranthene        | UG/L         | 10 U  | 10 UJ |
| Benzo[a]pyrene              | UG/L         | 10 U  | 10 UJ |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U  | 10 UJ |
| Dibenz[a,h]anthracene       | UG/L         | 10 U  | 10 UJ |
| Benzo[g,h,i]perylene        | UG/L         | 10 U  | 10 UJ |

SITE 28  
 HADNOT POINT BURN DUMP - NEW RIVER  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 28-NR-SW04 | 28-NR-SW04D |
| Laboratory Sample ID: | 940250-27  | 940250-28   |
| Date Sampled:         | 3/29/94    | 3/29/94     |

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|                        | <u>UNITS</u> |         |        |
|------------------------|--------------|---------|--------|
| <u>PESTICIDES/PCBs</u> |              |         |        |
| alpha-BHC              | UG/L         | 0.05 UJ | 0.05 U |
| beta-BHC               | UG/L         | 0.05 UJ | 0.05 U |
| delta-BHC              | UG/L         | 0.05 UJ | 0.05 U |
| Lindane (gamma-BHC)    | UG/L         | 0.05 UJ | 0.05 U |
| Heptachlor             | UG/L         | 0.05 UJ | 0.05 U |
| Aldrin                 | UG/L         | 0.05 UJ | 0.05 U |
| Heptachlor epoxide     | UG/L         | 0.05 UJ | 0.05 U |
| Endosulfan I           | UG/L         | 0.05 UJ | 0.05 U |
| Dieldrin               | UG/L         | 0.10 UJ | 0.10 U |
| 4,4'-DDE               | UG/L         | 0.10 UJ | 0.10 U |
| Endrin                 | UG/L         | 0.10 UJ | 0.10 U |
| Endosulfan II          | UG/L         | 0.10 UJ | 0.10 U |
| 4,4'-DDD               | UG/L         | 0.10 UJ | 0.10 U |
| Endosulfan sulfate     | UG/L         | 0.10 UJ | 0.10 U |
| 4,4'-DDT               | UG/L         | 0.10 UJ | 0.10 U |
| Methoxychlor           | UG/L         | 0.50 UJ | 0.50 U |
| Endrin ketone          | UG/L         | 0.10 UJ | 0.10 U |
| Endrin aldehyde        | UG/L         | 0.10 UJ | 0.10 U |
| alpha-Chlordane        | UG/L         | 0.05 UJ | 0.05 U |
| gamma-Chlordane        | UG/L         | 0.05 UJ | 0.05 U |
| Toxaphene              | UG/L         | 5.0 UJ  | 5.0 U  |
| Aroclor 1016           | UG/L         | 1.0 UJ  | 1.0 U  |
| Aroclor 1221           | UG/L         | 2.0 UJ  | 2.0 U  |
| Aroclor 1232           | UG/L         | 1.0 UJ  | 1.0 U  |
| Aroclor 1242           | UG/L         | 1.0 UJ  | 1.0 U  |
| Aroclor 1248           | UG/L         | 1.0 UJ  | 1.0 U  |
| Aroclor 1254           | UG/L         | 1.0 UJ  | 1.0 U  |
| Aroclor 1260           | UG/L         | 1.0 UJ  | 1.0 U  |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-OP-SD01-06 | 28-OP-SD01-06D |
| Laboratory Sample ID: | 940248-33     | 940248-34      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

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|                |              |        |        |
|----------------|--------------|--------|--------|
| Percent Solids |              | 70     | 88.0   |
|                | <u>UNITS</u> |        |        |
| Aluminum       | MG/KG        | 4340 J | 2750 J |
| Antimony       | MG/KG        | 9.3 R  | 8.7 R  |
| Arsenic        | MG/KG        | 2.3    | 2.7    |
| Barium         | MG/KG        | 13.5   | 10.1   |
| Beryllium      | MG/KG        | 0.27 U | 0.26 U |
| Cadmium        | MG/KG        | 1 U    | 0.77 U |
| Calcium        | MG/KG        | 1540 J | 1340 J |
| Chromium       | MG/KG        | 10.9   | 6.9    |
| Cobalt         | MG/KG        | 1.1 U  | 1.1    |
| Copper         | MG/KG        | 1.7    | 1.5 U  |
| Iron           | MG/KG        | 4050 J | 2740 J |
| Lead           | MG/KG        | 8.3    | 6.4    |
| Magnesium      | MG/KG        | 298    | 250    |
| Manganese      | MG/KG        | 6.9    | 6.6    |
| Mercury        | MG/KG        | 0.06 U | 0.06 U |
| Nickel         | MG/KG        | 2.1    | 1.8 U  |
| Potassium      | MG/KG        | 253 J  | 116 J  |
| Selenium       | MG/KG        | 1.1 U  | 1.0 U  |
| Silver         | MG/KG        | 1.4 UJ | 1.3 UJ |
| Sodium         | MG/KG        | 52.4 U | 51.3 U |
| Thallium       | MG/KG        | 1.1 U  | 1.0 U  |
| Vanadium       | MG/KG        | 11.3   | 8.9    |
| Zinc           | MG/KG        | 4.2    | 3.0    |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-OP-SD01-06 | 28-OP-SD01-06D |
| Laboratory Sample ID: | 940248-33     | 940248-34      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

|                           | <u>UNITS</u> |      |      |
|---------------------------|--------------|------|------|
| <u>VOLATILES</u>          |              |      |      |
| Chloromethane             | UG/KG        | 14 U | 14 U |
| Bromomethane              | UG/KG        | 14 U | 14 U |
| Vinyl chloride            | UG/KG        | 14 U | 14 U |
| Chloroethane              | UG/KG        | 14 U | 14 U |
| Methylene chloride        | UG/KG        | 14 U | 14 U |
| Acetone                   | UG/KG        | 79 J | 66   |
| Carbon Disulfide          | UG/KG        | 14 U | 14 U |
| 1,1-Dichloroethene        | UG/KG        | 14 U | 14 U |
| 1,1-Dichloroethane        | UG/KG        | 14 U | 14 U |
| 1,2-Dichloroethene(total) | UG/KG        | 14 U | 14 U |
| Chloroform                | UG/KG        | 14 U | 14 U |
| 1,2-Dichloroethane        | UG/KG        | 14 U | 14 U |
| 2-Butanone                | UG/KG        | 19 J | 14 U |
| 1,1,1-Trichloroethane     | UG/KG        | 14 U | 14 U |
| Carbon tetrachloride      | UG/KG        | 14 U | 14 U |
| Bromodichloromethane      | UG/KG        | 14 U | 14 U |
| 1,2-Dichloropropane       | UG/KG        | 14 U | 14 U |
| cis-1,3-Dichloropropene   | UG/KG        | 14 U | 14 U |
| Trichloroethene           | UG/KG        | 14 U | 14 U |
| Dibromochloromethane      | UG/KG        | 14 U | 14 U |
| 1,1,2-Trichloroethane     | UG/KG        | 14 U | 14 U |
| Benzene                   | UG/KG        | 14 U | 14 U |
| trans-1,3-Dichloropropene | UG/KG        | 14 U | 14 U |
| Bromoform                 | UG/KG        | 14 U | 14 U |
| 4-Methyl-2-pentanone      | UG/KG        | 14 U | 14 U |
| 2-Hexanone                | UG/KG        | 14 U | 14 U |
| Tetrachloroethene         | UG/KG        | 14 U | 14 U |
| 1,1,2,2-Tetrachloroethane | UG/KG        | 14 U | 14 U |
| Toluene                   | UG/KG        | 14 U | 14 U |
| Chlorobenzene             | UG/KG        | 14 U | 14 U |
| Ethylbenzene              | UG/KG        | 14 U | 14 U |
| Styrene                   | UG/KG        | 14 U | 14 U |
| Xylenes (total)           | UG/KG        | 14 U | 14 U |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-OP-SD01-06 | 28-OP-SD01-06D |
| Laboratory Sample ID: | 940248-33     | 940248-34      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

|                               | <u>UNITS</u> |        |       |
|-------------------------------|--------------|--------|-------|
| <u>SEMIVOLATILES</u>          |              |        |       |
| Phenol                        | UG/KG        | 470 U  | 370 U |
| bis(2-Chloroethyl) ether      | UG/KG        | 470 U  | 370 U |
| 2-Chlorophenol                | UG/KG        | 470 U  | 370 U |
| 1,3-Dichlorobenzene           | UG/KG        | 470 U  | 370 U |
| 1,4-Dichlorobenzene           | UG/KG        | 470 U  | 370 U |
| 1,2-Dichlorobenzene           | UG/KG        | 470 U  | 370 U |
| 2-Methylphenol                | UG/KG        | 470 U  | 370 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG        | 470 U  | 370 U |
| 4-Methylphenol                | UG/KG        | 470 U  | 370 U |
| N-Nitroso-di-n-propylamine    | UG/KG        | 470 U  | 370 U |
| Hexachloroethane              | UG/KG        | 470 U  | 370 U |
| Nitrobenzene                  | UG/KG        | 470 U  | 370 U |
| Isophorone                    | UG/KG        | 470 U  | 370 U |
| 2-Nitrophenol                 | UG/KG        | 470 U  | 370 U |
| 2,4-Dimethylphenol            | UG/KG        | 470 U  | 370 U |
| bis(2-Chloroethoxy) methane   | UG/KG        | 470 U  | 370 U |
| 2,4-Dichlorophenol            | UG/KG        | 470 U  | 370 U |
| 1,2,4-Trichlorobenzene        | UG/KG        | 470 U  | 370 U |
| Naphthalene                   | UG/KG        | 470 U  | 370 U |
| 4-Chloroaniline               | UG/KG        | 470 U  | 370 U |
| Hexachlorobutadiene           | UG/KG        | 470 U  | 370 U |
| 4-Chloro-3-methylphenol       | UG/KG        | 470 U  | 370 U |
| 2-Methylnaphthalene           | UG/KG        | 470 U  | 370 U |
| Hexachlorocyclopentadiene     | UG/KG        | 470 U  | 370 U |
| 2,4,6-Trichlorophenol         | UG/KG        | 470 U  | 370 U |
| 2,4,5-Trichlorophenol         | UG/KG        | 1100 U | 910 U |
| 2-Chloronaphthalene           | UG/KG        | 470 U  | 370 U |
| 2-Nitroaniline                | UG/KG        | 1100 U | 910 U |
| Dimethyl phthalate            | UG/KG        | 470 U  | 370 U |
| Acenaphthylene                | UG/KG        | 470 U  | 370 U |
| 2,6-Dinitrotoluene            | UG/KG        | 470 U  | 370 U |
| 3-Nitroaniline                | UG/KG        | 1100 U | 910 U |
| Acenaphthene                  | UG/KG        | 470 U  | 370 U |



SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-OP-SD01-06 | 28-OP-SD01-06D |
| Laboratory Sample ID: | 940248-33     | 940248-34      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

|                             | <u>UNITS</u> |         |       |
|-----------------------------|--------------|---------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |         |       |
| 2,4-Dinitrophenol           | UG/KG        | 1100 U  | 910 U |
| 4-Nitrophenol               | UG/KG        | 1100 U  | 910 U |
| Dibenzofuran                | UG/KG        | 470 U   | 370 U |
| 2,4-Dinitrotoluene          | UG/KG        | 470 U   | 370 U |
| Diethylphthalate            | UG/KG        | 470 U   | 370 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 470 U   | 370 U |
| Fluorene                    | UG/KG        | 470 U   | 370 U |
| 4-Nitroaniline              | UG/KG        | 1100 UJ | 910 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 1100 U  | 910 U |
| N-nitrosodiphenylamine      | UG/KG        | 470 U   | 370 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 470 U   | 370 U |
| Hexachlorobenzene           | UG/KG        | 470 U   | 370 U |
| Pentachlorophenol           | UG/KG        | 1100 U  | 910 U |
| Phenanthrene                | UG/KG        | 470 U   | 370 U |
| Anthracene                  | UG/KG        | 470 U   | 370 U |
| Carbazole                   | UG/KG        | 470 U   | 370 U |
| di-n-Butylphthalate         | UG/KG        | 470 U   | 370 U |
| Fluoranthene                | UG/KG        | 470 U   | 370 U |
| Pyrene                      | UG/KG        | 470 U   | 370 U |
| Butyl benzyl phthalate      | UG/KG        | 470 U   | 370 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 470 U   | 370 U |
| Benzo[a]anthracene          | UG/KG        | 470 U   | 370 U |
| Chrysene                    | UG/KG        | 470 U   | 370 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 120 J   | 95 J  |
| di-n-Octylphthalate         | UG/KG        | 470 U   | 370 U |
| Benzo[b]fluoranthene        | UG/KG        | 470 U   | 370 U |
| Benzo[k]fluoranthene        | UG/KG        | 470 U   | 370 U |
| Benzo[a]pyrene              | UG/KG        | 470 U   | 370 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 470 U   | 370 U |
| Dibenz[a,h]anthracene       | UG/KG        | 470 U   | 370 U |
| Benzo[g,h,i]perylene        | UG/KG        | 470 U   | 370 U |

SITE 28  
 HADNOT POINT BURN DUMP - ORDE POND  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-OP-SD01-06 | 28-OP-SD01-06D |
| Laboratory Sample ID: | 940248-33     | 940248-34      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

|                     | <u>UNITS</u> |        |        |
|---------------------|--------------|--------|--------|
| PESTICIDES/PCBs     |              |        |        |
| alpha-BHC           | UG/KG        | 2.4 UJ | 1.9 UJ |
| beta-BHC            | UG/KG        | 2.4 UJ | 1.9 UJ |
| delta-BHC           | UG/KG        | 2.4 UJ | 1.9 UJ |
| Lindane (gamma-BHC) | UG/KG        | 2.4 UJ | 1.9 UJ |
| Heptachlor          | UG/KG        | 2.4 UJ | 1.9 UJ |
| Aldrin              | UG/KG        | 2.4 UJ | 1.9 UJ |
| Heptachlor epoxide  | UG/KG        | 2.4 UJ | 1.9 UJ |
| Endosulfan I        | UG/KG        | 2.4 UJ | 1.9 UJ |
| Dieldrin            | UG/KG        | 4.7 UJ | 3.7 UJ |
| 4,4'-DDE            | UG/KG        | 4.7 UJ | 3.7 UJ |
| Endrin              | UG/KG        | 4.7 R  | 3.7 R  |
| Endosulfan II       | UG/KG        | 4.7 UJ | 3.7 UJ |
| 4,4'-DDD            | UG/KG        | 8.3 J  | 3.7 UJ |
| Endosulfan sulfate  | UG/KG        | 4.7 UJ | 3.7 UJ |
| 4,4'-DDT            | UG/KG        | 4.7 UJ | 3.7 UJ |
| Methoxychlor        | UG/KG        | 24 UJ  | 19 UJ  |
| Endrin ketone       | UG/KG        | 4.7 UJ | 3.7 UJ |
| Endrin aldehyde     | UG/KG        | 4.7 UJ | 3.7 UJ |
| alpha-Chlordane     | UG/KG        | 2.4 UJ | 1.9 UJ |
| gamma-Chlordane     | UG/KG        | 2.4 UJ | 1.9 UJ |
| Toxaphene           | UG/KG        | 240 UJ | 190 UJ |
| Aroclor 1016        | UG/KG        | 47 UJ  | 37 UJ  |
| Aroclor 1221        | UG/KG        | 95 UJ  | 76 UJ  |
| Aroclor 1232        | UG/KG        | 47 UJ  | 37 UJ  |
| Aroclor 1242        | UG/KG        | 47 UJ  | 37 UJ  |
| Aroclor 1248        | UG/KG        | 47 UJ  | 37 UJ  |
| Aroclor 1254        | UG/KG        | 47 UJ  | 37 UJ  |
| Aroclor 1260        | UG/KG        | 47 UJ  | 37 UJ  |

SITE 28  
 HADNOT POINT BURN DUMP - COGDELS CREEK  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-CC-SD04-06 | 28-CC-SD04-06D |
| Laboratory Sample ID: | 940248-28     | 940248-29      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

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|                |              |        |        |
|----------------|--------------|--------|--------|
| Percent Solids |              | 76     | 65.0   |
|                | <u>UNITS</u> |        |        |
| Aluminum       | MG/KG        | 864 J  | 7100 J |
| Antimony       | MG/KG        | 9 R    | 14.4 R |
| Arsenic        | MG/KG        | 0.79 U | 2.8    |
| Barium         | MG/KG        | 47.8   | 254    |
| Beryllium      | MG/KG        | 0.26 U | 0.42 U |
| Cadmium        | MG/KG        | 1.3 U  | 2.2 U  |
| Calcium        | MG/KG        | 496 J  | 3580 J |
| Chromium       | MG/KG        | 4      | 15.4   |
| Cobalt         | MG/KG        | 1.1 U  | 1.7 U  |
| Copper         | MG/KG        | 5.3    | 23.5   |
| Iron           | MG/KG        | 1980 J | 8890 J |
| Lead           | MG/KG        | 15.3   | 61.7   |
| Magnesium      | MG/KG        | 412    | 1940   |
| Manganese      | MG/KG        | 17.7   | 49.5   |
| Mercury        | MG/KG        | 0.06 U | 0.10   |
| Nickel         | MG/KG        | 1.8 U  | 3.0 U  |
| Potassium      | MG/KG        | 129 J  | 763 J  |
| Selenium       | MG/KG        | 1.1 U  | 1.7 U  |
| Silver         | MG/KG        | 1.3 UJ | 2.1 UJ |
| Sodium         | MG/KG        | 104    | 400    |
| Thallium       | MG/KG        | 1.1 U  | 1.7 U  |
| Vanadium       | MG/KG        | 3.1    | 17.2   |
| Zinc           | MG/KG        | 22     | 144    |

SITE 28  
 HADNOT POINT BURN DUMP - COGDELS CREEK  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-CC-SD04-06 | 28-CC-SD04-06D |
| Laboratory Sample ID: | 940248-28     | 940248-29      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

|                           | <u>UNITS</u> |      |      |
|---------------------------|--------------|------|------|
| <u>VOLATILES</u>          |              |      |      |
| Chloromethane             | UG/KG        | 18 U | 20 U |
| Bromomethane              | UG/KG        | 18 U | 20 U |
| Vinyl chloride            | UG/KG        | 18 U | 20 U |
| Chloroethane              | UG/KG        | 18 U | 20 U |
| Methylene chloride        | UG/KG        | 18 U | 20 U |
| Acetone                   | UG/KG        | 46 J | 58   |
| Carbon Disulfide          | UG/KG        | 18 U | 20 U |
| 1,1-Dichloroethene        | UG/KG        | 18 U | 20 U |
| 1,1-Dichloroethane        | UG/KG        | 18 U | 20 U |
| 1,2-Dichloroethene(total) | UG/KG        | 18 U | 20 U |
| Chloroform                | UG/KG        | 18 U | 20 U |
| 1,2-Dichloroethane        | UG/KG        | 18 U | 20 U |
| 2-Butanone                | UG/KG        | 16 J | 20 U |
| 1,1,1-Trichloroethane     | UG/KG        | 18 U | 20 U |
| Carbon tetrachloride      | UG/KG        | 18 U | 20 U |
| Bromodichloromethane      | UG/KG        | 18 U | 20 U |
| 1,2-Dichloropropane       | UG/KG        | 18 U | 20 U |
| cis-1,3-Dichloropropene   | UG/KG        | 18 U | 20 U |
| Trichloroethene           | UG/KG        | 18 U | 20 U |
| Dibromochloromethane      | UG/KG        | 18 U | 20 U |
| 1,1,2-Trichloroethane     | UG/KG        | 18 U | 20 U |
| Benzene                   | UG/KG        | 18 U | 20 U |
| trans-1,3-Dichloropropene | UG/KG        | 18 U | 20 U |
| Bromoform                 | UG/KG        | 18 U | 20 U |
| 4-Methyl-2-pentanone      | UG/KG        | 18 U | 20 U |
| 2-Hexanone                | UG/KG        | 18 U | 20 U |
| Tetrachloroethene         | UG/KG        | 18 U | 20 U |
| 1,1,2,2-Tetrachloroethane | UG/KG        | 18 U | 20 U |
| Toluene                   | UG/KG        | 18 U | 20 U |
| Chlorobenzene             | UG/KG        | 18 U | 20 U |
| Ethylbenzene              | UG/KG        | 18 U | 20 U |
| Styrene                   | UG/KG        | 18 U | 20 U |
| Xylenes (total)           | UG/KG        | 18 U | 20 U |

SITE 28  
 HADNOT POINT BURN DUMP - COGDELS CREEK  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-CC-SD04-06 | 28-CC-SD04-06D |
| Laboratory Sample ID: | 940248-28     | 940248-29      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

|                               | <u>UNITS</u> |        |        |
|-------------------------------|--------------|--------|--------|
| <u>SEMIVOLATILES</u>          |              |        |        |
| Phenol                        | UG/KG        | 430 U  | 500 U  |
| bis(2-Chloroethyl) ether      | UG/KG        | 430 U  | 500 U  |
| 2-Chlorophenol                | UG/KG        | 430 U  | 500 U  |
| 1,3-Dichlorobenzene           | UG/KG        | 430 U  | 500 U  |
| 1,4-Dichlorobenzene           | UG/KG        | 430 U  | 500 U  |
| 1,2-Dichlorobenzene           | UG/KG        | 430 U  | 500 U  |
| 2-Methylphenol                | UG/KG        | 430 U  | 500 U  |
| 2,2'-oxybis-(1-chloropropane) | UG/KG        | 430 U  | 500 U  |
| 4-Methylphenol                | UG/KG        | 430 U  | 500 U  |
| N-Nitroso-di-n-propylamine    | UG/KG        | 430 U  | 500 U  |
| Hexachloroethane              | UG/KG        | 430 U  | 500 U  |
| Nitrobenzene                  | UG/KG        | 430 U  | 500 U  |
| Isophorone                    | UG/KG        | 430 U  | 500 U  |
| 2-Nitrophenol                 | UG/KG        | 430 U  | 500 U  |
| 2,4-Dimethylphenol            | UG/KG        | 430 U  | 500 U  |
| bis(2-Chloroethoxy) methane   | UG/KG        | 430 U  | 500 U  |
| 2,4-Dichlorophenol            | UG/KG        | 430 U  | 500 U  |
| 1,2,4-Trichlorobenzene        | UG/KG        | 430 U  | 500 U  |
| Naphthalene                   | UG/KG        | 430 U  | 500 U  |
| 4-Chloroaniline               | UG/KG        | 430 U  | 500 U  |
| Hexachlorobutadiene           | UG/KG        | 430 U  | 500 U  |
| 4-Chloro-3-methylphenol       | UG/KG        | 430 U  | 500 U  |
| 2-Methylnaphthalene           | UG/KG        | 430 U  | 500 U  |
| Hexachlorocyclopentadiene     | UG/KG        | 430 U  | 500 U  |
| 2,4,6-Trichlorophenol         | UG/KG        | 430 U  | 500 U  |
| 2,4,5-Trichlorophenol         | UG/KG        | 1000 U | 1200 U |
| 2-Chloronaphthalene           | UG/KG        | 430 U  | 500 U  |
| 2-Nitroaniline                | UG/KG        | 1000 U | 1200 U |
| Dimethyl phthalate            | UG/KG        | 430 U  | 500 U  |
| Acenaphthylene                | UG/KG        | 430 U  | 500 U  |
| 2,6-Dinitrotoluene            | UG/KG        | 430 U  | 500 U  |
| 3-Nitroaniline                | UG/KG        | 1000 U | 1200 U |
| Acenaphthene                  | UG/KG        | 430 U  | 500 U  |

SITE 28  
HADNOT POINT BURN DUMP - COGDELS CREEK  
SEDIMENT - FIELD DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-CC-SD04-06 | 28-CC-SD04-06D |
| Laboratory Sample ID: | 940248-28     | 940248-29      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

|                             | <u>UNITS</u> |        |        |
|-----------------------------|--------------|--------|--------|
| <u>SEMIVOLATILES Cont.</u>  |              |        |        |
| 2,4-Dinitrophenol           | UG/KG        | 1000 U | 1200 U |
| 4-Nitrophenol               | UG/KG        | 1000 U | 1200 U |
| Dibenzofuran                | UG/KG        | 430 U  | 500 U  |
| 2,4-Dinitrotoluene          | UG/KG        | 430 U  | 500 U  |
| Diethylphthalate            | UG/KG        | 430 U  | 500 U  |
| 4-Chlorophenyl phenyl ether | UG/KG        | 430 U  | 500 U  |
| Fluorene                    | UG/KG        | 430 U  | 500 U  |
| 4-Nitroaniline              | UG/KG        | 1000 U | 1200 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 1000 U | 1200 U |
| N-nitrosodiphenylamine      | UG/KG        | 430 U  | 500 U  |
| 4-Bromophenyl-phenylether   | UG/KG        | 430 U  | 500 U  |
| Hexachlorobenzene           | UG/KG        | 430 U  | 500 U  |
| Pentachlorophenol           | UG/KG        | 1000 U | 1200 U |
| Phenanthrene                | UG/KG        | 430 U  | 500 U  |
| Anthracene                  | UG/KG        | 430 U  | 500 U  |
| Carbazole                   | UG/KG        | 430 U  | 500 U  |
| di-n-Butylphthalate         | UG/KG        | 430 U  | 500 U  |
| Fluoranthene                | UG/KG        | 430 U  | 500 U  |
| Pyrene                      | UG/KG        | 430 U  | 52 J   |
| Butyl benzyl phthalate      | UG/KG        | 430 U  | 500 U  |
| 3,3'-Dichlorobenzidine      | UG/KG        | 430 U  | 500 U  |
| Benzo[a]anthracene          | UG/KG        | 430 U  | 500 U  |
| Chrysene                    | UG/KG        | 430 U  | 500 U  |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 110 J  | 240 J  |
| di-n-Octylphthalate         | UG/KG        | 430 U  | 500 UJ |
| Benzo[b]fluoranthene        | UG/KG        | 430 U  | 500 UJ |
| Benzo[k]fluoranthene        | UG/KG        | 430 U  | 500 UJ |
| Benzo[a]pyrene              | UG/KG        | 440    | 500 UJ |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 430 U  | 500 UJ |
| Dibenz[a,h]anthracene       | UG/KG        | 430 U  | 500 UJ |
| Benzo[g,h,i]perylene        | UG/KG        | 430 U  | 500 UJ |

SITE 28  
 HADNOT POINT BURN DUMP - COGDELS CREEK  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL ORGANICS

|                       |               |                |
|-----------------------|---------------|----------------|
| Client Sample ID:     | 28-CC-SD04-06 | 28-CC-SD04-06D |
| Laboratory Sample ID: | 940248-28     | 940248-29      |
| Date Sampled:         | 3/28/94       | 3/28/94        |

| <u>PESTICIDES/PCBs</u> | <u>UNITS</u> |        |        |
|------------------------|--------------|--------|--------|
|                        | UG/KG        |        |        |
| alpha-BHC              | UG/KG        | 2.2 UJ | 2.6 UJ |
| beta-BHC               | UG/KG        | 2.2 UJ | 2.6 UJ |
| delta-BHC              | UG/KG        | 2.2 UJ | 2.6 UJ |
| Lindane (gamma-BHC)    | UG/KG        | 2.2 UJ | 2.6 UJ |
| Heptachlor             | UG/KG        | 2.2 UJ | 2.6 UJ |
| Aldrin                 | UG/KG        | 2.2 UJ | 2.6 UJ |
| Heptachlor epoxide     | UG/KG        | 2.2 UJ | 2.6 UJ |
| Endosulfan I           | UG/KG        | 2.2 UJ | 2.6 UJ |
| Dieldrin               | UG/KG        | 4.3 UJ | 5.0 UJ |
| 4,4'-DDE               | UG/KG        | 4.3 UJ | 5.0 UJ |
| Endrin                 | UG/KG        | 4.3 UJ | 5.0 UJ |
| Endosulfan II          | UG/KG        | 4.3 UJ | 5.0 UJ |
| 4,4'-DDD               | UG/KG        | 4.3 UJ | 5.0 UJ |
| Endosulfan sulfate     | UG/KG        | 4.3 UJ | 5.0 UJ |
| 4,4'-DDT               | UG/KG        | 4.3 UJ | 5.0 UJ |
| Methoxychlor           | UG/KG        | 22 UJ  | 26 UJ  |
| Endrin ketone          | UG/KG        | 4.3 UJ | 5.0 UJ |
| Endrin aldehyde        | UG/KG        | 4.3 UJ | 5.0 UJ |
| alpha-Chlordane        | UG/KG        | 2.2 UJ | 2.6 UJ |
| gamma-Chlordane        | UG/KG        | 2.2 UJ | 2.6 UJ |
| Toxaphene              | UG/KG        | 220 UJ | 260 UJ |
| Aroclor 1016           | UG/KG        | 43 UJ  | 50 UJ  |
| Aroclor 1221           | UG/KG        | 87 UJ  | 100 UJ |
| Aroclor 1232           | UG/KG        | 43 UJ  | 50 UJ  |
| Aroclor 1242           | UG/KG        | 43 UJ  | 50 UJ  |
| Aroclor 1248           | UG/KG        | 43 UJ  | 50 UJ  |
| Aroclor 1254           | UG/KG        | 43 UJ  | 50 UJ  |
| Aroclor 1260           | UG/KG        | 43 UJ  | 50 UJ  |

**SITE 30**

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SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 30-SB05-00 | 30-SB05-00D | 30-SB10-00 | 30-SB10-00D | 30-SB19-00 | 30SB1900D |
|-----------------------|------------|-------------|------------|-------------|------------|-----------|
| Laboratory Sample ID: | 940226-13  | 940226-14   | 940226-22  | 940226-23   | 940283-05  | 940283-06 |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     | 4/8/94     | 4/8/94    |

|           | UNITS |         |         |         |         |         |         |
|-----------|-------|---------|---------|---------|---------|---------|---------|
| Aluminum  | MG/KG | 596     | 576     | 237     | 228     | 1060    | 1220    |
| Antimony  | MG/KG | 5.9 U   | 6.2 U   | 5.3 U   | 6.7 U   | 7.2 U   | 7.2 U   |
| Arsenic   | MG/KG | 0.52 U  | 0.55 U  | 0.46 U  | 0.59 U  | 0.64 U  | 0.63 U  |
| Barium    | MG/KG | 2.2     | 2.0     | 1.5     | 1.4     | 2.1     | 2.5     |
| Beryllium | MG/KG | 0.17 U  | 0.18 U  | 0.15 U  | 0.20 U  | 0.21 U  | 0.21 U  |
| Cadmium   | MG/KG | 0.52 U  | 0.55 U  | 0.46 U  | 0.59 U  | 0.64 U  | 0.63 U  |
| Calcium   | MG/KG | 32.1 U  | 34.8 U  | 14.4 U  | 12.9 U  | 92.1 J  | 99.4 J  |
| Chromium  | MG/KG | 1.2 U   | 1.3 U   | 1.1 U   | 1.4 U   | 2.8 U   | 2.7 U   |
| Cobalt    | MG/KG | 0.70 U  | 0.73 U  | 0.62 U  | 0.79 U  | 0.85 U  | 0.84 U  |
| Copper    | MG/KG | 2.3     | 1.4     | 0.93 U  | 1.2 U   | 1.5     | 1.3     |
| Iron      | MG/KG | 470     | 364     | 247     | 407     | 607     | 655     |
| Lead      | MG/KG | 3.2     | 2.7     | 3.7     | 5.2     | 2.7     | 2.9     |
| Magnesium | MG/KG | 13.3    | 14.8    | 7.4     | 6.7     | 39.4    | 38.8    |
| Manganese | MG/KG | 6.0 J   | 6.3 J   | 2.6 J   | 3.7 J   | 7.8     | 6.1     |
| Mercury   | MG/KG | 0.04 U  | 0.05 U  | 0.05 U  | 0.05 U  | 0.05 U  | 0.05 U  |
| Nickel    | MG/KG | 1.2 U   | 1.3 U   | 1.5 U   | 3.0 U   | 1.5 UJ  | 1.5 UJ  |
| Potassium | MG/KG | 24.2 U  | 19.6 U  | 8.5     | 2.0 U   | 45.9 U  | 53.1 U  |
| Selenium  | MG/KG | 0.70 U  | 0.73 U  | 0.62 U  | 0.79 U  | 0.85 UJ | 0.84 UJ |
| Silver    | MG/KG | 0.87 UJ | 0.91 UJ | 0.77 UJ | 0.99 UJ | 1.1 UJ  | 1.1 UJ  |
| Sodium    | MG/KG | 19.2    | 10.6    | 7.9 U   | 10.1 U  | 17.3 U  | 17.2 U  |
| Thallium  | MG/KG | 0.70 U  | 0.73 U  | 0.62 U  | 0.79 U  | 0.85 U  | 0.84 U  |
| Vanadium  | MG/KG | 1.8     | 1.5     | 1.2     | 1.4     | 3.1     | 2.7     |
| Zinc      | MG/KG | 5.7     | 7.0     | 1.7 U   | 1.7 U   | 3.1     | 2.4     |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |            |             |
|-----------------------|------------|-------------|------------|-------------|
| Client Sample ID:     | 30-SB05-00 | 30-SB05-00D | 30-SB10-00 | 30-SB10-00D |
| Laboratory Sample ID: | 940226-13  | 940226-14   | 940226-22  | 940226-23   |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     |

|                           | UNITS |      |      |       |       |
|---------------------------|-------|------|------|-------|-------|
| <u>VOLATILES</u>          |       |      |      |       |       |
| Chloromethane             | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Bromomethane              | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Vinyl chloride            | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Chloroethane              | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Methylene chloride        | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Acetone                   | UG/KG | 21 U | 8 J  | 12 U  | 11 U  |
| Carbon Disulfide          | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 1,1-Dichloroethene        | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 1,1-Dichloroethane        | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 1,2-Dichloroethene(total) | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Chloroform                | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 1,2-Dichloroethane        | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 2-Butanone                | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 1,1,1-Trichloroethane     | UG/KG | 11 U | 2 J  | 12 U  | 11 U  |
| Carbon tetrachloride      | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Bromodichloromethane      | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 1,2-Dichloropropane       | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| cis-1,3-Dichloropropene   | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Trichloroethene           | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Dibromochloromethane      | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 1,1,2-Trichloroethane     | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Benzene                   | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| trans-1,3-Dichloropropene | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| Bromoform                 | UG/KG | 11 U | 10 U | 12 U  | 11 U  |
| 4-Methyl-2-pentanone      | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| 2-Hexanone                | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| Tetrachloroethene         | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| 1,1,2,2-Tetrachloroethane | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| Toluene                   | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| Chlorobenzene             | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| Ethylbenzene              | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| Styrene                   | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |
| Xylenes (total)           | UG/KG | 11 U | 10 U | 12 UJ | 11 UJ |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |            |             |
|-----------------------|------------|-------------|------------|-------------|
| Client Sample ID:     | 30-SB05-00 | 30-SB05-00D | 30-SB10-00 | 30-SB10-00D |
| Laboratory Sample ID: | 940226-13  | 940226-14   | 940226-22  | 940226-23   |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     |

|                               | UNITS |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| <b>SEMIVOLATILES</b>          |       |       |       |       |       |
| Phenol                        | UG/KG | 360 U | 360 U | 360 U | 360 U |
| bis(2-Chloroethyl) ether      | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2-Chlorophenol                | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 1,3-Dichlorobenzene           | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 1,4-Dichlorobenzene           | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 1,2-Dichlorobenzene           | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2-Methylphenol                | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 4-Methylphenol                | UG/KG | 360 U | 360 U | 360 U | 360 U |
| N-Nitroso-di-n-propylamine    | UG/KG | 360 U | 360 U | 360 U | 360 U |
| Hexachloroethane              | UG/KG | 360 U | 360 U | 360 U | 360 U |
| Nitrobenzene                  | UG/KG | 360 U | 360 U | 360 U | 360 U |
| Isophorone                    | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2-Nitrophenol                 | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2,4-Dimethylphenol            | UG/KG | 360 U | 360 U | 360 U | 360 U |
| bis(2-Chloroethoxy) methane   | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2,4-Dichlorophenol            | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 1,2,4-Trichlorobenzene        | UG/KG | 360 U | 360 U | 360 U | 360 U |
| Naphthalene                   | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 4-Chloroaniline               | UG/KG | 360 U | 360 U | 360 U | 360 U |
| Hexachlorobutadiene           | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 4-Chloro-3-methylphenol       | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2-Methylnaphthalene           | UG/KG | 360 U | 360 U | 360 U | 360 U |
| Hexachlorocyclopentadiene     | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2,4,6-Trichlorophenol         | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2,4,5-Trichlorophenol         | UG/KG | 860 U | 870 U | 880 U | 880 U |
| 2-Chloronaphthalene           | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2-Nitroaniline                | UG/KG | 860 U | 870 U | 880 U | 880 U |
| Dimethyl phthalate            | UG/KG | 360 U | 360 U | 360 U | 360 U |
| Acenaphthylene                | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 2,6-Dinitrotoluene            | UG/KG | 360 U | 360 U | 360 U | 360 U |
| 3-Nitroaniline                | UG/KG | 860 U | 870 U | 880 U | 880 U |
| Acenaphthene                  | UG/KG | 360 U | 360 U | 360 U | 360 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |            |             |
|-----------------------|------------|-------------|------------|-------------|
| Client Sample ID:     | 30-SB05-00 | 30-SB05-00D | 30-SB10-00 | 30-SB10-00D |
| Laboratory Sample ID: | 940226-13  | 940226-14   | 940226-22  | 940226-23   |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     |

|                             | <u>UNITS</u> |       |       |       |       |
|-----------------------------|--------------|-------|-------|-------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |       |       |       |       |
| 2,4-Dinitrophenol           | UG/KG        | 860 U | 870 U | 880 U | 880 U |
| 4-Nitrophenol               | UG/KG        | 860 U | 870 U | 880 U | 880 U |
| Dibenzofuran                | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| 2,4-Dinitrotoluene          | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Diethylphthalate            | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Fluorene                    | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| 4-Nitroaniline              | UG/KG        | 860 U | 870 U | 880 U | 880 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 860 U | 870 U | 880 U | 880 U |
| N-nitrosodiphenylamine      | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Hexachlorobenzene           | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Pentachlorophenol           | UG/KG        | 860 U | 870 U | 880 U | 880 U |
| Phenanthrene                | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Anthracene                  | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Carbazole                   | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| di-n-Butylphthalate         | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Fluoranthene                | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Pyrene                      | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Butyl benzyl phthalate      | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Benzo[a]anthracene          | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Chrysene                    | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 360 U | 360 U | 360 U | 190 J |
| di-n-Octylphthalate         | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Benzo[b]fluoranthene        | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Benzo[k]fluoranthene        | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Benzo[a]pyrene              | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Dibenz[a,h]anthracene       | UG/KG        | 360 U | 360 U | 360 U | 360 U |
| Benzo[g,h,i]perylene        | UG/KG        | 360 U | 360 U | 360 U | 360 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |            |             |            |             |
|-----------------------|------------|-------------|------------|-------------|
| Client Sample ID:     | 30-SB10-03 | 30-SB10-03D | 30-SB05-03 | 30-SB05-03D |
| Laboratory Sample ID: | 940227-06  | 940227-07   | 940227-03  | 940227-04   |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     |

| Percent Solids |              | 89     | 88.0    | 71     | 95.0   |
|----------------|--------------|--------|---------|--------|--------|
|                | <u>UNITS</u> |        |         |        |        |
| Aluminum       | MG/KG        | 6130 J | 3690 J  | 3200 J | 2330 J |
| Antimony       | MG/KG        | 7 UJ   | 6.4 UJ  | 7 UJ   | 6.8 UJ |
| Arsenic        | MG/KG        | 1      | 0.57 U  | 1      | 0.60 U |
| Barium         | MG/KG        | 5      | 2.9     | 3      | 2.3    |
| Beryllium      | MG/KG        | 0 U    | 0.19 U  | 0 U    | 0.20 U |
| Cadmium        | MG/KG        | 1 U    | 0.57 U  | 1 U    | 0.60 U |
| Calcium        | MG/KG        | 38 U   | 25.6 U  | 25 U   | 22.3 U |
| Chromium       | MG/KG        | 11 J   | 9.0 J   | 4      | 2.9 J  |
| Cobalt         | MG/KG        | 1 U    | 0.75 U  | 1 U    | 0.80 U |
| Copper         | MG/KG        | 3      | 2.4     | 1      | 1.2 U  |
| Iron           | MG/KG        | 2850 J | 2050 J  | 1610 J | 1280 J |
| Lead           | MG/KG        | 3      | 2.8     | 3      | 1.9    |
| Magnesium      | MG/KG        | 66     | 31.5    | 39     | 29.3   |
| Manganese      | MG/KG        | 6 J    | 5.5 J   | 10 J   | 6.5 J  |
| Mercury        | MG/KG        | 0      | 0.05    | 0 U    | 0.05 U |
| Nickel         | MG/KG        | 3      | 1.3 U   | 2      | 1.4 U  |
| Potassium      | MG/KG        | 58     | 23.2    | 41     | 15.1   |
| Selenium       | MG/KG        | 1 U    | 0.75 U  | 1 U    | 0.80 U |
| Silver         | MG/KG        | 1 UJ   | 0.94 UJ | 1 UJ   | 1.0 UJ |
| Sodium         | MG/KG        | 13 U   | 20.8 U  | 10 U   | 12.3 U |
| Thallium       | MG/KG        | 1 U    | 0.75 U  | 1 U    | 0.80 U |
| Vanadium       | MG/KG        | 6      | 4.0     | 4      | 3.1    |
| Zinc           | MG/KG        | 2      | 0.87    | 1      | 1.2    |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |            |             |
|-----------------------|------------|-------------|------------|-------------|
| Client Sample ID:     | 30-SB05-03 | 30-SB05-03D | 30-SB10-03 | 30-SB10-03D |
| Laboratory Sample ID: | 940227-03  | 940227-04   | 940227-06  | 940227-07   |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     |

|                           | UNITS |      |      |      |      |
|---------------------------|-------|------|------|------|------|
| <u>VOLATILES</u>          |       |      |      |      |      |
| Chloromethane             | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Bromomethane              | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Vinyl chloride            | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Chloroethane              | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Methylene chloride        | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Acetone                   | UG/KG | 11 U | 11 U | 51 U | 74   |
| Carbon Disulfide          | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,1-Dichloroethene        | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,1-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,2-Dichloroethene(total) | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Chloroform                | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,2-Dichloroethane        | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 2-Butanone                | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,1,1-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Carbon tetrachloride      | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Bromodichloromethane      | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,2-Dichloropropane       | UG/KG | 11 U | 11 U | 11 U | 12 U |
| cis-1,3-Dichloropropene   | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Trichloroethene           | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Dibromochloromethane      | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,1,2-Trichloroethane     | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Benzene                   | UG/KG | 11 U | 11 U | 11 U | 12 U |
| trans-1,3-Dichloropropene | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Bromoform                 | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 4-Methyl-2-pentanone      | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 2-Hexanone                | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Tetrachloroethene         | UG/KG | 11 U | 11 U | 11 U | 12 U |
| 1,1,2,2-Tetrachloroethane | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Toluene                   | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Chlorobenzene             | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Ethylbenzene              | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Styrene                   | UG/KG | 11 U | 11 U | 11 U | 12 U |
| Xylenes (total)           | UG/KG | 11 U | 11 U | 11 U | 12 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |            |             |
|-----------------------|------------|-------------|------------|-------------|
| Client Sample ID:     | 30-SB05-03 | 30-SB05-03D | 30-SB10-03 | 30-SB10-03D |
| Laboratory Sample ID: | 940227-03  | 940227-04   | 940227-06  | 940227-07   |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     |

|                               | <u>UNITS</u> |        |       |       |       |
|-------------------------------|--------------|--------|-------|-------|-------|
| <u>SEMIVOLATILES</u>          |              |        |       |       |       |
| Phenol                        | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| bis(2-Chloroethyl) ether      | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2-Chlorophenol                | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 1,3-Dichlorobenzene           | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 1,4-Dichlorobenzene           | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 1,2-Dichlorobenzene           | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2-Methylphenol                | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2,2'-oxybis-(1-chloropropane) | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 4-Methylphenol                | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| N-Nitroso-di-n-propylamine    | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Hexachloroethane              | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Nitrobenzene                  | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Isophorone                    | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2-Nitrophenol                 | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2,4-Dimethylphenol            | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| bis(2-Chloroethoxy) methane   | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2,4-Dichlorophenol            | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 1,2,4-Trichlorobenzene        | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Naphthalene                   | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 4-Chloroaniline               | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Hexachlorobutadiene           | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 4-Chloro-3-methylphenol       | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2-Methylnaphthalene           | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Hexachlorocyclopentadiene     | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2,4,6-Trichlorophenol         | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2,4,5-Trichlorophenol         | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| 2-Chloronaphthalene           | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2-Nitroaniline                | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| Dimethyl phthalate            | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Acenaphthylene                | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2,6-Dinitrotoluene            | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 3-Nitroaniline                | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| Acenaphthene                  | UG/KG        | 460 U  | 350 U | 370 U | 370 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SUBSURFACE SOIL - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |            |             |
|-----------------------|------------|-------------|------------|-------------|
| Client Sample ID:     | 30-SB05-03 | 30-SB05-03D | 30-SB10-03 | 30-SB10-03D |
| Laboratory Sample ID: | 940227-03  | 940227-04   | 940227-06  | 940227-07   |
| Date Sampled:         | 3/22/94    | 3/22/94     | 3/22/94    | 3/22/94     |

|                             | <u>UNITS</u> |        |       |       |       |
|-----------------------------|--------------|--------|-------|-------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |        |       |       |       |
| 2,4-Dinitrophenol           | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| 4-Nitrophenol               | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| Dibenzofuran                | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 2,4-Dinitrotoluene          | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Diethylphthalate            | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Fluorene                    | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 4-Nitroaniline              | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| N-nitrosodiphenylamine      | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Hexachlorobenzene           | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Pentachlorophenol           | UG/KG        | 1100 U | 840 U | 900 U | 900 U |
| Phenanthrene                | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Anthracene                  | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Carbazole                   | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| di-n-Butylphthalate         | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Fluoranthene                | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Pyrene                      | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Butyl benzyl phthalate      | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Benzo[a]anthracene          | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Chrysene                    | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 100 J  | 67 J  | 380   | 210 J |
| di-n-Octylphthalate         | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Benzo[b]fluoranthene        | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Benzo[k]fluoranthene        | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Benzo[a]pyrene              | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Dibenz[a,h]anthracene       | UG/KG        | 460 U  | 350 U | 370 U | 370 U |
| Benzo[g,h,i]perylene        | UG/KG        | 460 U  | 350 U | 370 U | 370 U |



SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-GW02-01 | 30-GW02-01D |
| Laboratory Sample ID: | 940334-11  | 940334-12   |
| Date Sampled:         | 4/21/94    | 4/21/94     |

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UNITS

|           |      |          |        |
|-----------|------|----------|--------|
| Aluminum  | UG/L | 136000 J | 61200  |
| Antimony  | UG/L | 34 UJ    | 34.0 U |
| Arsenic   | UG/L | 25.8     | 14.4   |
| Barium    | UG/L | 126      | 62.1   |
| Beryllium | UG/L | 1 U      | 1.0 U  |
| Cadmium   | UG/L | 3 U      | 3.0 U  |
| Calcium   | UG/L | 2220     | 2000   |
| Chromium  | UG/L | 111 J    | 49.9 J |
| Cobalt    | UG/L | 10.5 J   | 7.7    |
| Copper    | UG/L | 27.8     | 16.8   |
| Iron      | UG/L | 41400 J  | 18900  |
| Lead      | UG/L | 27.6 J   | 12.8   |
| Magnesium | UG/L | 7300     | 3450   |
| Manganese | UG/L | 181      | 101    |
| Mercury   | UG/L | 0.13     | 0.14 U |
| Nickel    | UG/L | 61.2     | 25.9   |
| Potassium | UG/L | 7440 J   | 2630   |
| Selenium  | UG/L | 4 UJ     | 4.0 UJ |
| Silver    | UG/L | 5 UJ     | 5.0 UJ |
| Sodium    | UG/L | 8980     | 8260   |
| Thallium  | UG/L | 4 U      | 4.0 UJ |
| Vanadium  | UG/L | 123      | 53.6   |
| Zinc      | UG/L | 237      | 123    |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 DISSOLVED METALS

|                       |             |              |
|-----------------------|-------------|--------------|
| Client Sample ID:     | 30-GW02D-01 | 30-GW02D-01D |
| Laboratory Sample ID: | 940334-13   | 940334-14    |
| Date Sampled:         | 4/21/94     | 4/21/94      |

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UNITS

|           |      |        |        |
|-----------|------|--------|--------|
| Aluminum  | UG/L | 130 UJ | 106    |
| Antimony  | UG/L | 37.9 J | 34.0 U |
| Arsenic   | UG/L | 3 U    | 3.0 U  |
| Barium    | UG/L | 17.3   | 11.3   |
| Beryllium | UG/L | 1 U    | 1.0 U  |
| Cadmium   | UG/L | 3 U    | 3.0 U  |
| Calcium   | UG/L | 2560   | 1990   |
| Chromium  | UG/L | 7 UJ   | 7.0 UJ |
| Cobalt    | UG/L | 4 U    | 4.0 U  |
| Copper    | UG/L | 6 U    | 7.8    |
| Iron      | UG/L | 141 J  | 127 U  |
| Lead      | UG/L | 1 UJ   | 1.0 U  |
| Magnesium | UG/L | 1170   | 1010   |
| Manganese | UG/L | 46.4   | 47.6   |
| Mercury   | UG/L | 0.13 U | 0.13 U |
| Nickel    | UG/L | 7 U    | 7.0 U  |
| Potassium | UG/L | 625 J  | 590    |
| Selenium  | UG/L | 4 UJ   | 4.0 UJ |
| Silver    | UG/L | 5 UJ   | 5.0 UJ |
| Sodium    | UG/L | 9810   | 8370   |
| Thallium  | UG/L | 4 U    | 4.0 UJ |
| Vanadium  | UG/L | 3 U    | 3.0 U  |
| Zinc      | UG/L | 23.3 U | 26.2 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-GW02-01 | 30-GW02-01D |
| Laboratory Sample ID: | 940334-11  | 940334-12   |
| Date Sampled:         | 4/21/94    | 4/21/94     |

|                           | <u>UNITS</u> |     |     |
|---------------------------|--------------|-----|-----|
| <u>VOLATILES</u>          |              |     |     |
| Chloromethane             | UG/L         | 2 U | 2 U |
| Bromomethane              | UG/L         | 2 U | 2 U |
| Vinyl chloride            | UG/L         | 2 U | 2 U |
| Chloroethane              | UG/L         | 2 U | 2 U |
| Methylene chloride        | UG/L         | 2 U | 2 U |
| 1,1-Dichloroethene        | UG/L         | 2 U | 2 U |
| 1,1-Dichloroethane        | UG/L         | 2 U | 2 U |
| 1,2-Dichloroethene(total) | UG/L         | 2 U | 2 U |
| Chloroform                | UG/L         | 2 U | 2 U |
| 1,2-Dichloroethane        | UG/L         | 2 U | 2 U |
| 1,1,1-Trichloroethane     | UG/L         | 2 U | 2 U |
| Carbon tetrachloride      | UG/L         | 2 U | 2 U |
| Bromodichloromethane      | UG/L         | 2 U | 2 U |
| 1,2-Dichloropropane       | UG/L         | 2 U | 2 U |
| cis-1,3-Dichloropropene   | UG/L         | 2 U | 2 U |
| Trichloroethene           | UG/L         | 2 U | 2 U |
| Dibromochloromethane      | UG/L         | 2 U | 2 U |
| 1,1,2-Trichloroethane     | UG/L         | 2 U | 2 U |
| Benzene                   | UG/L         | 2 U | 2 U |
| trans-1,3-Dichloropropene | UG/L         | 2 U | 2 U |
| 2-Chloroethylvinylether   | UG/L         | 2 U | 2 U |
| Bromoform                 | UG/L         | 2 U | 2 U |
| Tetrachloroethene         | UG/L         | 2 U | 2 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 2 U | 2 U |
| Toluene                   | UG/L         | 2 U | 2 U |
| Chlorobenzene             | UG/L         | 2 U | 2 U |
| Ethylbenzene              | UG/L         | 2 U | 2 U |
| Xylene (total)            | UG/L         | 2 U | 2 U |
| 1,3-Dichlorobenzene       | UG/L         | 2 U | 2 U |
| 1,4-Dichlorobenzene       | UG/L         | 2 U | 2 U |
| 1,2-Dichlorobenzene       | UG/L         | 2 U | 2 U |
| Trichlorofluoromethane    | UG/L         | 2 U | 2 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-GW02-01 | 30-GW02-01D |
| Laboratory Sample ID: | 940334-11  | 940334-12   |
| Date Sampled:         | 4/21/94    | 4/21/94     |

|                               | <u>UNITS</u> |       |       |
|-------------------------------|--------------|-------|-------|
| <u>SEMIVOLATILES</u>          |              |       |       |
| Phenol                        | UG/L         | 10 U  | 10 U  |
| bis(2-Chloroethyl) ether      | UG/L         | 10 U  | 10 U  |
| 2-Chlorophenol                | UG/L         | 10 U  | 10 U  |
| 1,3-Dichlorobenzene           | UG/L         | 10 U  | 10 U  |
| 1,4-Dichlorobenzene           | UG/L         | 10 U  | 10 U  |
| 1,2-Dichlorobenzene           | UG/L         | 10 U  | 10 U  |
| 2-Methylphenol                | UG/L         | 10 U  | 10 U  |
| 2,2'-oxybis-(1-chloropropane) | UG/L         | 10 UJ | 10 UJ |
| 4-Methylphenol                | UG/L         | 10 U  | 10 U  |
| N-Nitroso-di-n-propylamine    | UG/L         | 10 U  | 10 U  |
| Hexachloroethane              | UG/L         | 10 U  | 10 U  |
| Nitrobenzene                  | UG/L         | 10 U  | 10 U  |
| Isophorone                    | UG/L         | 10 U  | 10 U  |
| 2-Nitrophenol                 | UG/L         | 10 U  | 10 U  |
| 2,4-Dimethylphenol            | UG/L         | 10 U  | 10 U  |
| bis(2-Chloroethoxy) methane   | UG/L         | 10 U  | 10 U  |
| 2,4-Dichlorophenol            | UG/L         | 10 U  | 10 U  |
| 1,2,4-Trichlorobenzene        | UG/L         | 10 U  | 10 U  |
| Naphthalene                   | UG/L         | 10 U  | 10 U  |
| 4-Chloroaniline               | UG/L         | 10 U  | 10 U  |
| Hexachlorobutadiene           | UG/L         | 10 U  | 10 U  |
| 4-Chloro-3-methylphenol       | UG/L         | 10 U  | 10 U  |
| 2-Methylnaphthalene           | UG/L         | 10 U  | 10 U  |
| Hexachlorocyclopentadiene     | UG/L         | 10 U  | 10 U  |
| 2,4,6-Trichlorophenol         | UG/L         | 10 U  | 10 U  |
| 2,4,5-Trichlorophenol         | UG/L         | 25 U  | 25 U  |
| 2-Chloronaphthalene           | UG/L         | 10 U  | 10 U  |
| 2-Nitroaniline                | UG/L         | 25 U  | 25 U  |
| Dimethyl phthalate            | UG/L         | 10 U  | 10 U  |
| Acenaphthylene                | UG/L         | 10 U  | 10 U  |
| 2,6-Dinitrotoluene            | UG/L         | 10 U  | 10 U  |
| 3-Nitroaniline                | UG/L         | 25 U  | 25 U  |
| Acenaphthene                  | UG/L         | 10 U  | 10 U  |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 GROUNDWATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-GW02-01 | 30-GW02-01D |
| Laboratory Sample ID: | 940334-11  | 940334-12   |
| Date Sampled:         | 4/21/94    | 4/21/94     |

|                             | <u>UNITS</u> |      |      |
|-----------------------------|--------------|------|------|
| <u>SEMIVOLATILES Cont.</u>  |              |      |      |
| 2,4-Dinitrophenol           | UG/L         | 25 U | 25 U |
| 4-Nitrophenol               | UG/L         | 25 U | 25 U |
| Dibenzofuran                | UG/L         | 10 U | 10 U |
| 2,4-Dinitrotoluene          | UG/L         | 10 U | 10 U |
| Diethylphthalate            | UG/L         | 10 U | 10 U |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U | 10 U |
| Fluorene                    | UG/L         | 10 U | 10 U |
| 4-Nitroaniline              | UG/L         | 25 U | 25 U |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U | 25 U |
| N-nitrosodiphenylamine      | UG/L         | 10 U | 10 U |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U | 10 U |
| Hexachlorobenzene           | UG/L         | 10 U | 10 U |
| Pentachlorophenol           | UG/L         | 25 U | 25 U |
| Phenanthrene                | UG/L         | 10 U | 10 U |
| Anthracene                  | UG/L         | 10 U | 10 U |
| Carbazole                   | UG/L         | 10 U | 10 U |
| di-n-Butylphthalate         | UG/L         | 10 U | 10 U |
| Fluoranthene                | UG/L         | 10 U | 10 U |
| Pyrene                      | UG/L         | 10 U | 10 U |
| Butyl benzyl phthalate      | UG/L         | 10 U | 10 U |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 U | 10 U |
| Benzo[a]anthracene          | UG/L         | 10 U | 10 U |
| Chrysene                    | UG/L         | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 10 U | 10 U |
| di-n-Octylphthalate         | UG/L         | 10 U | 10 U |
| Benzo[b]fluoranthene        | UG/L         | 10 U | 10 U |
| Benzo[k]fluoranthene        | UG/L         | 10 U | 10 U |
| Benzo[a]pyrene              | UG/L         | 10 U | 10 U |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U | 10 U |
| Dibenz[a,h]anthracene       | UG/L         | 10 U | 10 U |
| Benzo[g,h,i]perylene        | UG/L         | 10 U | 10 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |           |           |
|-----------------------|-----------|-----------|
| Client Sample ID:     | 30-SW01   | 30-SW01D  |
| Laboratory Sample ID: | 940226-36 | 940226-37 |
| Date Sampled:         | 3/23/94   | 3/23/94   |

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|           | <u>UNITS</u> |        |        |
|-----------|--------------|--------|--------|
| Aluminum  | UG/L         | 1480   | 559    |
| Antimony  | UG/L         | 34 U   | 34.0 U |
| Arsenic   | UG/L         | 3 U    | 3.0 U  |
| Barium    | UG/L         | 10.2   | 7.0 U  |
| Beryllium | UG/L         | 1 U    | 1.0 U  |
| Cadmium   | UG/L         | 3 U    | 3.0 U  |
| Calcium   | UG/L         | 2080   | 1830   |
| Chromium  | UG/L         | 7 U    | 7.0 U  |
| Cobalt    | UG/L         | 4 U    | 4.0 U  |
| Copper    | UG/L         | 6      | 6.0 U  |
| Iron      | UG/L         | 829    | 443    |
| Lead      | UG/L         | 2.3 J  | 1.0 UJ |
| Magnesium | UG/L         | 650    | 580    |
| Manganese | UG/L         | 5.5 J  | 3.8 J  |
| Mercury   | UG/L         | 0.15   | 0.13 U |
| Nickel    | UG/L         | 10.8 U | 8.0 U  |
| Potassium | UG/L         | 220    | 192    |
| Selenium  | UG/L         | 4 U    | 4.0 U  |
| Silver    | UG/L         | 5 UJ   | 5.0 UJ |
| Sodium    | UG/L         | 4440   | 4160   |
| Thallium  | UG/L         | 4 U    | 4.0 U  |
| Vanadium  | UG/L         | 3 U    | 3.0 U  |
| Zinc      | UG/L         | 22 U   | 20.0 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |           |           |
|-----------------------|-----------|-----------|
| Client Sample ID:     | 30-SW01   | 30-SW01D  |
| Laboratory Sample ID: | 940226-36 | 940226-37 |
| Date Sampled:         | 3/23/94   | 3/23/94   |

|                           | <u>UNITS</u> |      |      |
|---------------------------|--------------|------|------|
| <u>VOLATILES</u>          |              |      |      |
| Chloromethane             | UG/L         | 10 U | 10 U |
| Bromomethane              | UG/L         | 10 U | 10 U |
| Vinyl chloride            | UG/L         | 10 U | 10 U |
| Chloroethane              | UG/L         | 10 U | 10 U |
| Methylene chloride        | UG/L         | 10 U | 10 U |
| Acetone                   | UG/L         | 13 U | 10 U |
| Carbon Disulfide          | UG/L         | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L         | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L         | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L         | 10 U | 10 U |
| Chloroform                | UG/L         | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L         | 10 U | 10 U |
| 2-Butanone                | UG/L         | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L         | 10 U | 10 U |
| Carbon tetrachloride      | UG/L         | 10 U | 10 U |
| Bromodichloromethane      | UG/L         | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L         | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L         | 10 U | 10 U |
| Trichloroethene           | UG/L         | 10 U | 10 U |
| Dibromochloromethane      | UG/L         | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L         | 10 U | 10 U |
| Benzene                   | UG/L         | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L         | 10 U | 10 U |
| Bromoform                 | UG/L         | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L         | 10 U | 10 U |
| 2-Hexanone                | UG/L         | 10 U | 10 U |
| Tetrachloroethene         | UG/L         | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 10 U | 10 U |
| Toluene                   | UG/L         | 10 U | 10 U |
| Chlorobenzene             | UG/L         | 10 U | 10 U |
| Ethylbenzene              | UG/L         | 10 U | 10 U |
| Styrene                   | UG/L         | 10 U | 10 U |
| Xylenes (total)           | UG/L         | 10 U | 10 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |           |           |
|-----------------------|-----------|-----------|
| Client Sample ID:     | 30-SW01   | 30-SW01D  |
| Laboratory Sample ID: | 940226-36 | 940226-37 |
| Date Sampled:         | 3/23/94   | 3/23/94   |

|                               | <u>UNITS</u> |      |      |
|-------------------------------|--------------|------|------|
| <u>SEMIVOLATILES</u>          |              |      |      |
| Phenol                        | UG/L         | 10 U | 10 U |
| bis(2-Chloroethyl) ether      | UG/L         | 10 U | 10 U |
| 2-Chlorophenol                | UG/L         | 10 U | 10 U |
| 1,3-Dichlorobenzene           | UG/L         | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L         | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L         | 10 U | 10 U |
| 2-Methylphenol                | UG/L         | 10 U | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L         | 10 U | 10 U |
| 4-Methylphenol                | UG/L         | 10 U | 10 U |
| N-Nitroso-di-n-propylamine    | UG/L         | 10 U | 10 U |
| Hexachloroethane              | UG/L         | 10 U | 10 U |
| Nitrobenzene                  | UG/L         | 10 U | 10 U |
| Isophorone                    | UG/L         | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L         | 10 U | 10 U |
| 2,4-Dimethylphenol            | UG/L         | 10 U | 10 U |
| bis(2-Chloroethoxy) methane   | UG/L         | 10 U | 10 U |
| 2,4-Dichlorophenol            | UG/L         | 10 U | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L         | 10 U | 10 U |
| Naphthalene                   | UG/L         | 10 U | 10 U |
| 4-Chloroaniline               | UG/L         | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L         | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L         | 10 U | 10 U |
| 2-Methylnaphthalene           | UG/L         | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L         | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L         | 10 U | 10 U |
| 2,4,5-Trichlorophenol         | UG/L         | 25 U | 25 U |
| 2-Chloronaphthalene           | UG/L         | 10 U | 10 U |
| 2-Nitroaniline                | UG/L         | 25 U | 25 U |
| Dimethyl phthalate            | UG/L         | 10 U | 10 U |
| Acenaphthylene                | UG/L         | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L         | 10 U | 10 U |
| 3-Nitroaniline                | UG/L         | 25 U | 25 U |
| Acenaphthene                  | UG/L         | 10 U | 10 U |



SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SURFACE WATER - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |           |           |
|-----------------------|-----------|-----------|
| Client Sample ID:     | 30-SW01   | 30-SW01D  |
| Laboratory Sample ID: | 940226-36 | 940226-37 |
| Date Sampled:         | 3/23/94   | 3/23/94   |

|                             | <u>UNITS</u> |      |      |
|-----------------------------|--------------|------|------|
| <u>SEMIVOLATILES Cont.</u>  |              |      |      |
| 2,4-Dinitrophenol           | UG/L         | 25 U | 25 U |
| 4-Nitrophenol               | UG/L         | 25 U | 25 U |
| Dibenzofuran                | UG/L         | 10 U | 10 U |
| 2,4-Dinitrotoluene          | UG/L         | 10 U | 10 U |
| Diethylphthalate            | UG/L         | 10 U | 10 U |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U | 10 U |
| Fluorene                    | UG/L         | 10 U | 10 U |
| 4-Nitroaniline              | UG/L         | 25 U | 25 U |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U | 25 U |
| N-nitrosodiphenylamine      | UG/L         | 10 U | 10 U |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U | 10 U |
| Hexachlorobenzene           | UG/L         | 10 U | 10 U |
| Pentachlorophenol           | UG/L         | 25 U | 25 U |
| Phenanthrene                | UG/L         | 10 U | 10 U |
| Anthracene                  | UG/L         | 10 U | 10 U |
| Carbazole                   | UG/L         | 10 U | 10 U |
| di-n-Butylphthalate         | UG/L         | 10 U | 10 U |
| Fluoranthene                | UG/L         | 10 U | 10 U |
| Pyrene                      | UG/L         | 10 U | 10 U |
| Butyl benzyl phthalate      | UG/L         | 10 U | 10 U |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 U | 10 U |
| Benzo[a]anthracene          | UG/L         | 10 U | 10 U |
| Chrysene                    | UG/L         | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 10 U | 10 U |
| di-n-Octylphthalate         | UG/L         | 10 U | 10 U |
| Benzo[b]fluoranthene        | UG/L         | 10 U | 10 U |
| Benzo[k]fluoranthene        | UG/L         | 10 U | 10 U |
| Benzo[a]pyrene              | UG/L         | 10 U | 10 U |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U | 10 U |
| Dibenz[a,h]anthracene       | UG/L         | 10 U | 10 U |
| Benzo[g,h,i]perylene        | UG/L         | 10 U | 10 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-SD01-06 | 30-SD01-06D |
| Laboratory Sample ID: | 940238-06  | 940238-07   |
| Date Sampled:         | 3/25/94    | 3/25/94     |

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|           | <u>UNITS</u> |        |        |
|-----------|--------------|--------|--------|
| Aluminum  | MG/KG        | 2320   | 4810   |
| Antimony  | MG/KG        | 19.5 U | 18.1 U |
| Arsenic   | MG/KG        | 1.7 U  | 1.6 U  |
| Barium    | MG/KG        | 9.1    | 12.7   |
| Beryllium | MG/KG        | 0.57 U | 0.53 U |
| Cadmium   | MG/KG        | 1.7 U  | 1.6 U  |
| Calcium   | MG/KG        | 646    | 721    |
| Chromium  | MG/KG        | 7.5    | 9.7    |
| Cobalt    | MG/KG        | 2.3 U  | 2.1 U  |
| Copper    | MG/KG        | 9.5    | 18.0   |
| Iron      | MG/KG        | 755    | 1350   |
| Lead      | MG/KG        | 15.5   | 16.7   |
| Magnesium | MG/KG        | 133    | 174    |
| Manganese | MG/KG        | 19.0   | 11.7   |
| Mercury   | MG/KG        | 0.14 U | 0.11 U |
| Nickel    | MG/KG        | 4.0 UJ | 3.7 UJ |
| Potassium | MG/KG        | 102    | 236    |
| Selenium  | MG/KG        | 2.3 U  | 2.1 U  |
| Silver    | MG/KG        | 2.9 UJ | 2.7 UJ |
| Sodium    | MG/KG        | 73.9 U | 112 U  |
| Thallium  | MG/KG        | 2.3 U  | 2.1 U  |
| Vanadium  | MG/KG        | 5.3    | 7.6    |
| Zinc      | MG/KG        | 11.3   | 11.8   |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-SD01-06 | 30-SD01-06D |
| Laboratory Sample ID: | 940238-06  | 940238-07   |
| Date Sampled:         | 3/25/94    | 3/25/94     |

|                           | <u>UNITS</u> |      |      |
|---------------------------|--------------|------|------|
| <u>VOLATILES</u>          |              |      |      |
| Chloromethane             | UG/KG        | 33 U | 34 U |
| Bromomethane              | UG/KG        | 33 U | 34 U |
| Vinyl chloride            | UG/KG        | 33 U | 34 U |
| Chloroethane              | UG/KG        | 33 U | 34 U |
| Methylene chloride        | UG/KG        | 33 U | 34 U |
| Acetone                   | UG/KG        | 33 U | 65 U |
| Carbon Disulfide          | UG/KG        | 33 U | 34 U |
| 1,1-Dichloroethene        | UG/KG        | 33 U | 34 U |
| 1,1-Dichloroethane        | UG/KG        | 33 U | 34 U |
| 1,2-Dichloroethene(total) | UG/KG        | 33 U | 34 U |
| Chloroform                | UG/KG        | 33 U | 34 U |
| 1,2-Dichloroethane        | UG/KG        | 33 U | 34 U |
| 2-Butanone                | UG/KG        | 33 U | 22 J |
| 1,1,1-Trichloroethane     | UG/KG        | 33 U | 34 U |
| Carbon tetrachloride      | UG/KG        | 33 U | 34 U |
| Bromodichloromethane      | UG/KG        | 33 U | 34 U |
| 1,2-Dichloropropane       | UG/KG        | 33 U | 34 U |
| cis-1,3-Dichloropropene   | UG/KG        | 33 U | 34 U |
| Trichloroethene           | UG/KG        | 33 U | 34 U |
| Dibromochloromethane      | UG/KG        | 33 U | 34 U |
| 1,1,2-Trichloroethane     | UG/KG        | 33 U | 34 U |
| Benzene                   | UG/KG        | 33 U | 34 U |
| trans-1,3-Dichloropropene | UG/KG        | 33 U | 34 U |
| Bromoform                 | UG/KG        | 33 U | 34 U |
| 4-Methyl-2-pentanone      | UG/KG        | 33 U | 34 U |
| 2-Hexanone                | UG/KG        | 33 U | 34 U |
| Tetrachloroethene         | UG/KG        | 33 U | 34 U |
| 1,1,2,2-Tetrachloroethane | UG/KG        | 33 U | 34 U |
| Toluene                   | UG/KG        | 33 U | 34 U |
| Chlorobenzene             | UG/KG        | 33 U | 34 U |
| Ethylbenzene              | UG/KG        | 33 U | 34 U |
| Styrene                   | UG/KG        | 33 U | 34 U |
| Xylenes (total)           | UG/KG        | 33 U | 34 U |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-SD01-06 | 30-SD01-06D |
| Laboratory Sample ID: | 940238-06  | 940238-07   |
| Date Sampled:         | 3/25/94    | 3/25/94     |

|                               | <u>UNITS</u> |         |         |
|-------------------------------|--------------|---------|---------|
| <u>SEMIVOLATILES</u>          |              |         |         |
| Phenol                        | UG/KG        | 1100 U  | 1100 U  |
| bis(2-Chloroethyl) ether      | UG/KG        | 1100 U  | 1100 U  |
| 2-Chlorophenol                | UG/KG        | 1100 U  | 1100 U  |
| 1,3-Dichlorobenzene           | UG/KG        | 1100 U  | 1100 U  |
| 1,4-Dichlorobenzene           | UG/KG        | 1100 U  | 1100 U  |
| 1,2-Dichlorobenzene           | UG/KG        | 1100 U  | 1100 U  |
| 2-Methylphenol                | UG/KG        | 1100 U  | 1100 U  |
| 2,2'-oxybis-(1-chloropropane) | UG/KG        | 1100 UJ | 1100 UJ |
| 4-Methylphenol                | UG/KG        | 1100 U  | 1100 U  |
| N-Nitroso-di-n-propylamine    | UG/KG        | 1100 U  | 1100 U  |
| Hexachloroethane              | UG/KG        | 1100 U  | 1100 U  |
| Nitrobenzene                  | UG/KG        | 1100 U  | 1100 U  |
| Isophorone                    | UG/KG        | 1100 U  | 1100 U  |
| 2-Nitrophenol                 | UG/KG        | 1100 U  | 1100 U  |
| 2,4-Dimethylphenol            | UG/KG        | 1100 U  | 1100 U  |
| bis(2-Chloroethoxy) methane   | UG/KG        | 1100 U  | 1100 U  |
| 2,4-Dichlorophenol            | UG/KG        | 1100 U  | 1100 U  |
| 1,2,4-Trichlorobenzene        | UG/KG        | 1100 U  | 1100 U  |
| Naphthalene                   | UG/KG        | 1100 U  | 1100 U  |
| 4-Chloroaniline               | UG/KG        | 1100 U  | 1100 U  |
| Hexachlorobutadiene           | UG/KG        | 1100 U  | 1100 U  |
| 4-Chloro-3-methylphenol       | UG/KG        | 1100 U  | 1100 U  |
| 2-Methylnaphthalene           | UG/KG        | 1100 U  | 1100 U  |
| Hexachlorocyclopentadiene     | UG/KG        | 1100 U  | 1100 U  |
| 2,4,6-Trichlorophenol         | UG/KG        | 1100 U  | 1100 U  |
| 2,4,5-Trichlorophenol         | UG/KG        | 2600 U  | 2700 U  |
| 2-Chloronaphthalene           | UG/KG        | 1100 U  | 1100 U  |
| 2-Nitroaniline                | UG/KG        | 2600 U  | 2700 U  |
| Dimethyl phthalate            | UG/KG        | 1100 U  | 1100 U  |
| Acenaphthylene                | UG/KG        | 1100 U  | 1100 U  |
| 2,6-Dinitrotoluene            | UG/KG        | 1100 U  | 1100 U  |
| 3-Nitroaniline                | UG/KG        | 2600 U  | 2700 U  |
| Acenaphthene                  | UG/KG        | 1100 U  | 1100 U  |

SITE 30  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 SEDIMENT - FIELD DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 VOLATILES AND SEMIVOLATILES

|                       |            |             |
|-----------------------|------------|-------------|
| Client Sample ID:     | 30-SD01-06 | 30-SD01-06D |
| Laboratory Sample ID: | 940238-06  | 940238-07   |
| Date Sampled:         | 3/25/94    | 3/25/94     |

|                             | <u>UNITS</u> |        |        |
|-----------------------------|--------------|--------|--------|
| <u>SEMIVOLATILES Cont.</u>  |              |        |        |
| 2,4-Dinitrophenol           | UG/KG        | 2600 U | 2700 U |
| 4-Nitrophenol               | UG/KG        | 2600 U | 2700 U |
| Dibenzofuran                | UG/KG        | 1100 U | 1100 U |
| 2,4-Dinitrotoluene          | UG/KG        | 1100 U | 1100 U |
| Diethylphthalate            | UG/KG        | 1100 U | 1100 U |
| 4-Chlorophenyl phenyl ether | UG/KG        | 1100 U | 1100 U |
| Fluorene                    | UG/KG        | 1100 U | 1100 U |
| 4-Nitroaniline              | UG/KG        | 2600 U | 2700 U |
| 4,6-Dinitro-2-methylphenol  | UG/KG        | 2600 U | 2700 U |
| N-nitrosodiphenylamine      | UG/KG        | 1100 U | 1100 U |
| 4-Bromophenyl-phenylether   | UG/KG        | 1100 U | 1100 U |
| Hexachlorobenzene           | UG/KG        | 1100 U | 1100 U |
| Pentachlorophenol           | UG/KG        | 2600 U | 2700 U |
| Phenanthrene                | UG/KG        | 1100 U | 1100 U |
| Anthracene                  | UG/KG        | 1100 U | 1100 U |
| Carbazole                   | UG/KG        | 1100 U | 1100 U |
| di-n-Butylphthalate         | UG/KG        | 1100 U | 150 J  |
| Fluoranthene                | UG/KG        | 1100 U | 1100 U |
| Pyrene                      | UG/KG        | 1100 U | 1100 U |
| Butyl benzyl phthalate      | UG/KG        | 1100 U | 1100 U |
| 3,3'-Dichlorobenzidine      | UG/KG        | 1100 U | 1100 U |
| Benzo[a]anthracene          | UG/KG        | 1100 U | 1100 U |
| Chrysene                    | UG/KG        | 1100 U | 1100 U |
| bis(2-Ethylhexyl)phthalate  | UG/KG        | 500 J  | 630 J  |
| di-n-Octylphthalate         | UG/KG        | 1100 U | 1100 U |
| Benzo[b]fluoranthene        | UG/KG        | 1100 U | 1100 U |
| Benzo[k]fluoranthene        | UG/KG        | 1100 U | 1100 U |
| Benzo[a]pyrene              | UG/KG        | 1100 U | 1100 U |
| Indeno[1,2,3-cd]pyrene      | UG/KG        | 1100 U | 1100 U |
| Dibenz[a,h]anthracene       | UG/KG        | 1100 U | 1100 U |
| Benzo[g,h,i]perylene        | UG/KG        | 1100 U | 1100 U |

**APPENDIX G**  
**TCLP RESULTS**

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**SITE 1**

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## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 1-S-SB40

Laboratory ID: 940320-08

Date Sample Received: 4/20/94

Date Sampled: 4/19/94

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| Target Analyte   | Result | Units  | Method Reporting Limit | Date Analyzed |
|------------------|--------|--------|------------------------|---------------|
| Flashpoint       | NC     | °F     | 200                    | 4/24/94       |
| pH               | 4.59   | S.U.   | ---                    | 4/22/94       |
| Reactive Cyanide | ND     | mg/kg* | 0.6                    | 4/25/94       |
| Reactive Sulfide | ND     | mg/kg* | 1.4                    | 4/25/94       |

---

NC = No Combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 88.9%

1632



TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

1-S-SB40

Lab Name: CEIMIC CORPORATION Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: SDG No.: GW1700  
 Matrix (soil/water): WATER Lab Sample ID: 942320-08 S  
 Level (low/med): LOW Date Received: 04/20/94  
 % Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | Q  | IM  |
|------------|----------|---------------|----|-----|
| 17440-38-2 | Arsenic  | 25.0          | UI | IP  |
| 17440-39-2 | Barium   | 655           | BI | IP  |
| 17440-43-9 | Cadmium  | 3.0           | UI | IP  |
| 17440-47-3 | Chromium | 7.0           | UI | IP  |
| 17439-92-1 | Lead     | 61.0          | UI | IP  |
| 17439-97-6 | Mercury  | 0.13          | UI | AVI |
| 17782-49-2 | Selenium | 49.0          | UI | IP  |
| 17440-22-4 | Silver   | 5.0           | UI | IP  |

Color Before: COLORLESS Clarity Before: CLEAR Texture:  
 Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client ID: 1-S-SB40

Laboratory ID: 940320-08

Date Sample Received: 4/22/94

Date Sample Prepared: 4/27/94

Date Sample Analyzed: 5/13/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limits |
|-------------------|----------------------|-------------------------|
| 2,4-D             | ND                   | 33                      |
| 2,4,5-TP (Silvex) | ND                   | 10                      |

---

ND = Not detected

1568

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 1-S-SB40

Laboratory ID: 940320-08

Date Sample Received: 4/20/94

Date Sample Prepared: 4/27/94

Date Sample Analyzed: 5/16/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | 0.17                   |
| Heptachlor          | ND                   | 0.17                   |
| Heptachlor Epoxide  | ND                   | 0.17                   |
| Endrin              | ND                   | 0.33                   |
| Methoxychlor        | ND                   | 1.7                    |
| Toxaphene           | ND                   | 17                     |
| Chlordane           | ND                   | 1.7                    |

---

ND - Not detected

1551

## ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-S-SB40

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: GW1700

Matrix: (soil/water) WATER

Lab Sample ID: 940320-00

Sample wt/vol: 60.0 (g/mL) ML

Lab File ID: 19401

Level: (low/med) LOW

Date Received: 04/20/94

% Moisture: decanted: (Y/N) N

Date Extracted: 04/27/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 04/28/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

EPC Cleanup: (Y/N) N

pH:

## CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

0

| CAS NO.  | COMPOUND              | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | 0  |
|----------|-----------------------|--|----|
| 110-86-1 | Pyridine              | 170  | 1U |
| 106-46-7 | 1,4-Dichlorobenzene   | 170  | 1U |
|          | Methylphenols (total) | 170  | 1U |
| 67-72-1  | Hexachloroethane      | 170  | 1U |
| 98-95-3  | Nitrobenzene          | 170  | 1U |
| 87-68-3  | Hexachlorobutadiene   | 170  | 1U |
| 88-06-2  | 2,4,6-Trichlorophenol | 170  | 1U |
| 95-95-4  | 2,4,5-Trichlorophenol | 420  | 1U |
| 121-14-2 | 2,4-Dinitrotoluene    | 170  | 1U |
| 118-74-1 | Hexachlorobenzene     | 170  | 1U |
| 87-86-5  | Pentachlorophenol     | 420  | 1U |

FORM I X-1

1526

3/90

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-S-SB40

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 19231

SAS No.: \_\_\_\_\_

SDG No.: GW1700

Matrix: (soil/water) WATER

Lab Sample ID: 940320-08

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: FC367

Level: (low/med) LOW

Date Received: 04/20/94

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 04/25/94

GC Column: HP-624 ID: 0.53(mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L                      Q

|          |                      |    |    |
|----------|----------------------|----|----|
| 75-01-4  | Vinyl Chloride       | 10 | IU |
| 75-35-4  | 1,1-Dichloroethene   | 10 | IU |
| 67-66-3  | Chloroform           | 10 | IU |
| 107-06-2 | 1,2-Dichloroethane   | 10 | IU |
| 78-93-3  | 2-Butanone           | 10 | IU |
| 56-23-5  | Carbon Tetrachloride | 10 | IU |
| 79-01-6  | Trichloroethene      | 10 | IU |
| 71-43-2  | Benzene              | 10 | IU |
| 127-18-4 | Tetrachloroethene    | 10 | IU |
| 108-90-7 | Chlorobenzene        | 10 | IU |

1487

## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 1-RB01

Laboratory ID: 940398-01

Date Sample Received: 5/10/94

Date Sampled: 5/08/94

---

| Target Analyte   | Result | Units  | Method Reporting Limit | Date Analyzed |
|------------------|--------|--------|------------------------|---------------|
| Flashpoint       | NC     | °F     | 200                    | 5/12/94       |
| pH               | 7.86   | S.U.   | ---                    | 5/12/94       |
| Reactive Cyanide | ND     | mg/kg* | 0.6                    | 5/16/94       |
| Reactive Sulfide | 49.8   | mg/kg* | 1.4                    | 5/16/94       |

---

NC = No Combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 90.3%

TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

1-RB01

Lab Name: CEIMIC CORPORATION Contract: BAKER  
Lab Code: CEIMIC Case No.: 19231 SAS No.: SDG No.: L1RB01  
Matrix (soil/water): WATER Lab Sample ID: 942398-01 S  
Level (low/med): LDW Date Received: 05/10/94  
% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | Q  | M   |
|------------|----------|---------------|----|-----|
| 17440-38-2 | Arsenic  | 25.0          | UI | IP  |
| 17440-39-2 | Barium   | 369           | BI | IP  |
| 17440-43-9 | Cadmium  | 3.0           | UI | IP  |
| 17440-47-3 | Chromium | 7.0           | UI | IP  |
| 17439-92-1 | Lead     | 107           | BI | IP  |
| 17439-97-6 | Mercury  | 0.10          | UI | AVI |
| 17782-49-2 | Selenium | 4.0           | UI | IP  |
| 17440-22-4 | Silver   | 5.0           | UI | IP  |

Color Before: COLORLESS Clarity Before: CLEAR Texture:  
Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

.....  
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.....  
.....

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client ID: 1-RB01

Laboratory ID: 940398-01

Date Sample Received: 5/10/94

Date Sample Prepared: 5/12/94

Date Sample Analyzed: 5/14/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limits |
|-------------------|----------------------|-------------------------|
| 2,4-D             | ND                   | 33                      |
| 2,4,5-TP (Silvex) | ND                   | 10                      |

---

ND = Not detected



## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 1-RB01

Laboratory ID: 940398-01

Date Sample Received: 5/10/94

Date Sample Prepared: 5/13/94

Date Sample Analyzed: 5/17/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | .05                    |
| Heptachlor          | ND                   | .05                    |
| Heptachlor Epoxide  | ND                   | .05                    |
| Endrin              | ND                   | .1                     |
| Methoxychlor        | ND                   | .5                     |
| Toxaphene           | ND                   | 5                      |
| Chlordane           | ND                   | 5                      |

---

ND = Not detected

ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

1-RB01

Lab Name: CEIMIC CORP Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: SDG No.: 1-RB01  
 Matrix: (soil/water) WATER Lab Sample ID: 940298-01  
 Sample wt/vol: 250.0 (g/mL) ML Lab File ID: J8627  
 Level: (low/med) LOW Date Received: 05/10/94  
 Moisture: decanted: (Y/N) N Date Extracted: 05/12/94  
 Concentrated Extract Volume: 1000(UL) Date Analyzed: 05/14/94  
 Injection Volume: 2.0(UL) Dilution Factor: 1.0  
 CPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

| CAS NO.  | COMPOUND              | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q |
|----------|-----------------------|--|---|
| 110-86-1 | Pyridine              | 40   | U |
| 106-46-7 | 1,4-Dichlorobenzene   | 40   | U |
|          | Methylphenols (total) | 40   | U |
| 67-72-1  | Hexachloroethane      | 40   | U |
| 99-95-3  | Nitrobenzene          | 40   | U |
| 87-68-3  | Hexachlorobutadiene   | 40   | U |
| 88-06-2  | 2,4,6-Trichlorophenol | 40   | U |
| 95-95-4  | 2,4,5-Trichlorophenol | 100  | U |
| 121-14-2 | 2,4-Dinitrotoluene    | 40   | U |
| 118-74-1 | Hexachlorobenzene     | 40   | U |
| 87-86-5  | Pentachlorophenol     | 100  | U |

407

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-RB01

Lab Name: CEIMIC CORP Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: \_\_\_\_\_ SDG No.: 1-RB01  
 Matrix: (soil/water) WATER Lab Sample ID: 940398-01  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G7827  
 Levels: (low/med) LOW Date Received: 05/10/94  
 % Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 05/12/94  
 GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |      |
|----------|----------------------|----------------------|------|
|          |                      | (ug/L or ug/Kg)      | UG/L |
| 75-01-4  | Vinyl Chloride       | 10                   | 1U   |
| 75-35-4  | 1,1-Dichloroethene   | 10                   | 1U   |
| 67-66-3  | Chloroform           | 10                   | 1U   |
| 107-06-2 | 1,2-Dichloroethane   | 10                   | 1U   |
| 78-93-3  | 2-Butanone           | 10                   | 1U   |
| 56-23-5  | Carbon Tetrachloride | 10                   | 1U   |
| 79-01-6  | Trichloroethene      | 10                   | 1U   |
| 71-43-2  | Benzene              | 10                   | 1U   |
| 127-18-4 | Tetrachloroethene    | 10                   | 1U   |
| 108-90-7 | Chlorobenzene        | 10                   | 1U   |

## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 1-RB02

Laboratory ID: 940398-02

Date Sample Received: 5/10/94

Date Sampled: 5/08/94

---

| Target Analyte   | Result | Units  | Method Reporting Limit | Date Analyzed |
|------------------|--------|--------|------------------------|---------------|
| Flashpoint       | NC     | °F     | 200                    | 5/12/94       |
| pH               | 12.03  | S.U.   | ---                    | 5/12/94       |
| Reactive Cyanide | ND     | mg/kg* | 0.7                    | 5/16/94       |
| Reactive Sulfide | ND     | mg/kg* | 1.7                    | 5/16/94       |

---

NC = No Combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 73.0%

561

TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

1-RB02

Lab Name: CEIMIC CORPORATION Contract: BAKER  
Lab Code: CEIMIC Case No.: 19231 SAS No.: SDG No.: L1RB01  
Matrix (soil/water): WATER Lab Sample ID: 942398-02 S  
Level (low/med): LOW Date Received: 05/10/94  
% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | CI | Q | IM  |
|------------|----------|---------------|----|---|-----|
| 17440-38-2 | Arsenic  | 25.0          | UI |   | IP  |
| 17440-39-2 | Barium   | 400           | BI |   | IP  |
| 17440-43-9 | Cadmium  | 3.0           | UI |   | IP  |
| 17440-47-3 | Chromium | 7.0           | UI |   | IP  |
| 17439-92-1 | Lead     | 61.0          | UI |   | IP  |
| 17439-97-6 | Mercury  | 0.13          | UI |   | AVI |
| 17782-49-2 | Selenium | 40.0          | UI |   | IP  |
| 17440-22-4 | Silver   | 5.0           | UI |   | IP  |

Color Before: COLORLESS Clarity Before: CLEAR Texture:  
Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

.....  
.....  
.....

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client ID: 1-RB02

Laboratory ID: 940398-02

Date Sample Received: 5/10/94

Date Sample Prepared: 5/12/94

Date Sample Analyzed: 5/14/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limits |
|-------------------|----------------------|-------------------------|
| 2,4-D             | ND                   | 33                      |
| 2,4,5-TP (Silvex) | ND                   | 10                      |

---

ND = Not detected

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 1-RB02

Laboratory ID: 940398-02

Date Sample Received: 5/10/94

Date Sample Prepared: 5/13/94

Date Sample Analyzed: 5/17/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | .05                    |
| Heptachlor          | ND                   | .05                    |
| Heptachlor Epoxide  | ND                   | .05                    |
| Endrin              | ND                   | .1                     |
| Methoxychlor        | ND                   | .5                     |
| Toxaphene           | ND                   | 5                      |
| Chlordane           | ND                   | 5                      |

---

ND = Not detected

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-RB02

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 1-RB01

Matrix: (soil/water) WATER

Lab Sample ID: 940398-02

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: J0628

Level: (low/med) LOW

Date Received: 05/10/94

% Moisture: decanted: (Y/N) N

Date Extracted: 05/12/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/14/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

| CAS NO.  | COMPOUND              | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q |
|----------|-----------------------|--|---|
| 110-86-1 | Pyridine              | 40   | U |
| 106-46-7 | 1,4-Dichlorobenzene   | 40   | U |
|          | Methylphenols (total) | 40   | U |
| 67-72-1  | Hexachloroethane      | 40   | U |
| 98-95-3  | Nitrobenzene          | 40   | U |
| 87-68-3  | Hexachlorobutadiene   | 40   | U |
| 88-06-2  | 2,4,6-Trichlorophenol | 40   | U |
| 95-95-4  | 2,4,5-Trichlorophenol | 100  | U |
| 121-14-2 | 2,4-Dinitrotoluene    | 40   | U |
| 118-74-1 | Hexachlorobenzene     | 40   | U |
| 87-86-5  | Pentachlorophenol     | 100  | U |



1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

|   |                                 |                                       |
|---|---------------------------------|---------------------------------------|
| Lab Name: <u>CEIMIC CORP</u>                      | Contract: <u>BAKER</u>          | <u>1-RB02</u>                         |
| Lab Code: <u>CEIMIC</u>                           | Case No.: <u>19231</u>          | SAS No.: _____ SDG No.: <u>1-RB01</u> |
| Matrix: (soil/water) <u>WATER</u>                 | Lab Sample ID: <u>940398-02</u> |                                       |
| Sample wt/vol: <u>5.0</u> (g/mL) <u>ML</u>        | Lab File ID: <u>07828</u>       |                                       |
| Level: (low/med) <u>LOW</u>                       | Date Received: <u>05/10/94</u>  |                                       |
| % Moisture: not dec. _____ Heated Purge: <u>N</u> | Date Analyzed: <u>05/12/94</u>  |                                       |
| GC Column: <u>DB-624</u> ID: <u>0.53(mm)</u>      | Dilution Factor: <u>1.0</u>     |                                       |
| Soil Extract Volume: _____ (uL)                   | Soil Aliquot Volume: _____ (uL) |                                       |

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |      |
|----------|----------------------|----------------------|------|
|          |                      | (ug/L or ug/Kg)      | UG/L |
| 75-01-4  | Vinyl Chloride       | 10                   | IU   |
| 75-35-4  | 1,1-Dichloroethene   | 10                   | IU   |
| 67-66-3  | Chloroform           | 10                   | IU   |
| 107-06-2 | 1,2-Dichloroethane   | 10                   | IU   |
| 78-93-3  | 2-Butanone           | 10                   | IU   |
| 56-23-5  | Carbon Tetrachloride | 10                   | IU   |
| 79-01-6  | Trichloroethene      | 10                   | IU   |
| 71-43-2  | Benzene              | 10                   | IU   |
| 127-18-4 | Tetrachloroethene    | 10                   | IU   |
| 108-90-7 | Chlorobenzene        | 10                   | IU   |

380



## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 28 W SB-1

Laboratory ID: 940248-25

Date Sample Received: 3/29/94

Date Sampled: 3/27/94

---

| Target Analyte    | Result | Units | Method Reporting Limit | Date Analyzed |
|-------------------|--------|-------|------------------------|---------------|
| Flashpoint        | NC     | °F    | 200                    | 3/30/94       |
| pH                | 7.36   | S.U.  | ---                    | 3/30/94       |
| Reactive Cyanide* | ND     | mg/kg | 0.6                    | 3/29/94       |
| Reactive Sulfide* | 4.1    | mg/kg | 1.5                    | 3/29/94       |

---

NC = No combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 85.6%

1446

TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

28-W-SB41

Lab Name: CEIMIC CORPORATION

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: SB16-00

Matrix (soil/water): WATER

Lab Sample ID: 943248-25 S

Level (low/med): LOW

Date Received: 03/29/94

% Solids: 0.0

Concentration Units (ug/L or ug/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | Q  | M   |
|------------|----------|---------------|----|-----|
| 17440-38-2 | Arsenic  | 25.0          | UI | IP  |
| 17440-39-2 | Barium   | 1180          | I  | IP  |
| 17440-43-9 | Cadmium  | 38.4          | I  | IP  |
| 17440-47-3 | Chromium | 14.1          | BI | IP  |
| 17439-92-1 | Lead     | 1340          | I  | IP  |
| 17439-97-6 | Mercury  | 0.14          | UI | AVI |
| 17782-49-2 | Selenium | 155           | BI | IP  |
| 17440-22-4 | Silver   | 5.0           | UI | IP  |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

EPA Method 8150

Client: Baker Environmental

Client Sample ID: 28-W-SB41

Laboratory ID: 940248-25

Date Sample Received: 3/30/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/12/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limit |
|-------------------|----------------------|------------------------|
| 2,4-D             | ND                   | 10                     |
| 2,4,5-TP (Silvex) | ND                   | 10                     |

---

ND = Not detected

1378

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 28-W-SB41

Laboratory ID: 940248-25

Date Sample Received: 3/30/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/06/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | .17                    |
| Heptachlor          | ND                   | .17                    |
| Heptachlor Epoxide  | ND                   | .17                    |
| Endrin              | ND                   | .33                    |
| Methoxychlor        | ND                   | 1.7                    |
| Toxaphene           | ND                   | 17.0                   |
| Chlordane           | ND                   | 1.7                    |

---

ND = Not detected

1353

ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-W-SB41

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: SB1600

Matrix: (soil/water) WATER

Lab Sample ID: 940248-25

Sample wt/vol: 300.0 (g/mL) ML

Lab File ID: DC710

Level: (low/med) LOW

Date Received: 03/29/94

% Moisture: decanted: (Y/N) N

Date Extracted: 04/05/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 04/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q |
|---------|----------|--|---|
|---------|----------|--|---|

|          |                       |    |    |
|----------|-----------------------|----|----|
| 110-86-1 | Pyridine              | 33 | IU |
| 106-46-7 | 1,4-Dichlorobenzene   | 33 | IU |
|          | Methylphenols (total) | 33 | IU |
| 67-72-1  | Hexachloroethane      | 33 | IU |
| 98-95-3  | Nitrobenzene          | 33 | IU |
| 87-68-3  | Hexachlorobutadiene   | 33 | IU |
| 88-06-2  | 2,4,6-Trichlorophenol | 33 | IU |
| 95-95-4  | 2,4,5-Trichlorophenol | 83 | IU |
| 121-14-2 | 2,4-Dinitrotoluene    | 33 | IU |
| 118-74-1 | Hexachlorobenzene     | 33 | IU |
| 87-86-5  | Pentachlorophenol     | 83 | IU |

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-W-SB41

Lab Name: CEIMIC CORP Contract: BAKER

Lab Code: CEIMIC Case No.: 19231 SAS No.: \_\_\_\_\_ SDG No.: SB1600

Matrix: (soil/water) WATER Lab Sample ID: 940248-25

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H4395

Level: (low/med) LOW Date Received: 03/29/94

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/94

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |      | Q |
|----------|----------------------|----------------------|------|---|
|          |                      | (ug/L or ug/Kg)      | UG/L |   |
| 75-01-4  | Vinyl Chloride       | 10                   | IU   |   |
| 75-35-4  | 1,1-Dichloroethene   | 10                   | IU   |   |
| 67-66-3  | Chlorofom            | 10                   | IU   |   |
| 107-06-2 | 1,2-Dichloroethane   | 10                   | IU   |   |
| 78-93-3  | 2-Butanone           | 10                   | IU   |   |
| 56-23-5  | Carbon Tetrachloride | 10                   | IU   |   |
| 79-01-6  | Trichloroethene      | 10                   | IU   |   |
| 71-43-2  | Benzene              | 1                    | IJ   |   |
| 127-18-4 | Tetrachloroethene    | 10                   | IU   |   |
| 108-90-7 | Chlorobenzene        | 10                   | IU   |   |

FORM I X-1

1283 3/90



## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 28-W-SB08

Laboratory ID: 940248-08

Date Sample Received: 3/29/94

Date Sampled: 3/27/94

| Target Analyte    | Result | Units | Method Reporting Limit | Date Analyzed |
|-------------------|--------|-------|------------------------|---------------|
| Flashpoint        | NC     | °F    | 200                    | 3/30/94       |
| pH                | 7.53   | S.U.  | ---                    | 3/30/94       |
| Reactive Cyanide* | ND     | mg/kg | 0.6                    | 3/29/94       |
| Reactive Sulfide* | ND     | mg/kg | 1.6                    | 3/29/94       |

NC = No combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 79.5%

1811

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

28-W-SB08

Lab Name: CEIMIC CORPORATION

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 28TB-09

Matrix (soil/water): WATER

Lab Sample ID: 942248-08 S

Level (low/med): LOW

Date Received: 03/29/94

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | Q | M  |
|------------|----------|---------------|---|----|
| 17440-38-2 | Arsenic  | 25.0          | U | P  |
| 17440-39-2 | Barium   | 912           | B | P  |
| 17440-43-9 | Cadmium  | 19.6          | I | P  |
| 17440-47-3 | Chromium | 11.0          | B | P  |
| 17439-92-1 | Lead     | 1330          | I | P  |
| 17439-97-6 | Mercury  | 0.10          | U | AV |
| 17782-49-2 | Selenium | 49.0          | U | P  |
| 17440-22-4 | Silver   | 5.0           | U | P  |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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1769

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client Sample ID: 28-W-SB08

Laboratory ID: 940248-08

Date Sample Received: 3/30/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/12/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limit |
|-------------------|----------------------|------------------------|
| 2,4-D             | ND                   | 10                     |
| 2,4,5-TP (Silvex) | ND                   | 10                     |

---

ND = Not detected

1742

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 28-W-SB08

Laboratory ID: 940248-08

Date Sample Received: 3/30/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/06/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | .17                    |
| Heptachlor          | ND                   | .17                    |
| Heptachlor Epoxide  | ND                   | .17                    |
| Endrin              | ND                   | .33                    |
| Methoxychlor        | ND                   | 1.7                    |
| Toxaphene           | ND                   | 17.0                   |
| Chlordane           | ND                   | 1.7                    |

---

ND = Not detected

1718

## ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-W-SB08

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDS No.: 28TB09

Matrix: (soil/water) WATER

Lab Sample ID: 940248-08

Sample wt/vol: 300.0 (g/mL) ML

Lab File ID: DC709

Level: (low/med) LOW

Date Received: 03/29/94

% Moisture: decanted: (Y/N) N

Date Extracted: 04/05/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 04/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

| CAS NO.  | COMPOUND              |    | Q |
|----------|-----------------------|----|---|
| 110-86-1 | Pyridine              | 33 | U |
| 106-46-7 | 1,4-Dichlorobenzene   | 33 | U |
|          | Methylphenols (total) | 33 | U |
| 67-72-1  | Hexachloroethane      | 33 | U |
| 98-95-3  | Nitrobenzene          | 33 | U |
| 87-68-3  | Hexachlorobutadiene   | 33 | U |
| 88-06-2  | 2,4,6-Trichlorophenol | 33 | U |
| 95-95-4  | 2,4,5-Trichlorophenol | 33 | U |
| 121-14-2 | 2,4-Dinitrotoluene    | 33 | U |
| 118-74-1 | Hexachlorobenzene     | 33 | U |
| 87-86-5  | Pentachlorophenol     | 33 | U |

IX  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

|  |                                 |                                |
|--|---------------------------------|--------------------------------|
| Lab Name: <u>CEIMIC CORP</u>               | Contract: <u>BAKER</u>          | 28-W-SB08                      |
| Lab Code: <u>CEIMIC</u>                    | Case No.: <u>19231</u>          | SAS No.: _____                 |
| Matrix: (soil/water) <u>WATER</u>          | Lab Sample ID: <u>940248-08</u> | SDG No.: <u>28TB09</u>         |
| Sample wt/vol: <u>5.0</u> (g/mL) <u>ML</u> | Lab File ID: <u>H4394</u>       |                                |
| Level: (low/med) <u>LOW</u>                | Date Received: <u>03/29/94</u>  |                                |
| % Moisture: not dec. _____                 | Heated Purge: <u>N</u>          | Date Analyzed: <u>04/07/94</u> |
| GC Column: <u>DB-624</u>                   | ID: <u>0.53</u> (mm)            | Dilution Factor: <u>1.0</u>    |
| Soil Extract Volume: _____ (uL)            | Soil Aliquot Volume: _____ (uL) |                                |

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>UG/L</u> | Q  |
|----------|----------------------|---|----|
| 75-01-4  | Vinyl Chloride       | 10  | IU |
| 75-35-4  | 1,1-Dichloroethene   | 10  | IU |
| 67-66-3  | Chloroform           | 10  | IU |
| 107-06-2 | 1,2-Dichloroethane   | 10  | IU |
| 78-93-3  | 2-Butanone           | 10  | IU |
| 56-23-5  | Carbon Tetrachloride | 10  | IU |
| 79-01-6  | Trichloroethene      | 10  | IU |
| 71-43-2  | Benzene              | 4   | IJ |
| 127-18-4 | Tetrachloroethene    | 10  | IU |
| 108-90-7 | Chlorobenzene        | 10  | IU |

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client Sample ID: 28-E-SB42D

Laboratory ID: 940246-35

Date Sample Received: 3/29/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/12/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limit |
|-------------------|----------------------|------------------------|
| 2,4-D             | ND                   | 10                     |
| 2,4,5-TP (Silvex) | ND                   | 10                     |

---

ND = Not detected

1230

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 28-E-SB42D

Laboratory ID: 940246-35

Date Sample Received: 3/29/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/06/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | .17                    |
| Heptachlor          | ND                   | .17                    |
| Heptachlor Epoxide  | ND                   | .17                    |
| Endrin              | ND                   | .33                    |
| Methoxychlor        | ND                   | 1.7                    |
| Toxaphene           | ND                   | 17.0                   |
| Chlordane           | ND                   | 1.7                    |

---

ND = Not detected

1204



TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

28-E-SB42D

Lab Name: CEIMIC CORPORATION

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: SB27-00

Matrix (soil/water): WATER

Lab Sample ID: 942246-35 S

Level (low/med): LOW

Date Received: 03/29/94

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | Q | IM  |
|------------|----------|---------------|---|-----|
| 17440-38-2 | Arsenic  | 25.0          | U | P   |
| 17440-39-2 | Barium   | 497           | B | P   |
| 17440-43-9 | Cadmium  | 3.0           | U | P   |
| 17440-47-3 | Chromium | 8.8           | B | P   |
| 17439-92-1 | Lead     | 63.1          | B | P   |
| 17439-97-6 | Mercury  | 0.14          | U | AVI |
| 17782-49-2 | Selenium | 49.0          | U | P   |
| 17440-22-4 | Silver   | 5.0           | U | P   |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

|   |                                 |                                       |
|---|---------------------------------|---------------------------------------|
| Lab Name: <u>CEIMIC CORP</u>                    | Contract: <u>BAKER</u>          | 28-E-SB42D                            |
| Lab Code: <u>CEIMIC</u>                         | Case No.: <u>19231</u>          | SAS No.: _____ SDG No.: <u>SB2700</u> |
| Matrix: (soil/water) <u>WATER</u>               | Lab Sample ID: <u>940246-35</u> |                                       |
| Sample wt/vol: <u>5.0</u> (g/mL) <u>ML</u>      | Lab File ID: <u>FC171</u>       |                                       |
| Level: (low/med) <u>LOW</u>                     | Date Received: <u>03/29/94</u>  |                                       |
| Moisture: not dec. _____ Heated Purge: <u>N</u> | Date Analyzed: <u>04/07/94</u>  |                                       |
| GC Column: <u>HP-624</u> ID: <u>0.53</u> (mm)   | Dilution Factor: <u>1.0</u>     |                                       |
| Soil Extract Volume: _____ (uL)                 | Soil Aliquot Volume: _____ (uL) |                                       |

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) <u>UG/L</u> | Q  |
|----------|----------------------|---|----|
| 75-01-4  | Vinyl Chloride       | 10  | IU |
| 75-35-4  | 1,1-Dichloroethene   | 10  | IU |
| 67-66-3  | Chloroform           | 10  | IU |
| 107-06-2 | 1,2-Dichloroethane   | 10  | IU |
| 78-93-3  | 2-Butanone           | 10  | IU |
| 56-23-5  | Carbon Tetrachloride | 10  | IU |
| 79-01-6  | Trichloroethene      | 10  | IU |
| 71-43-2  | Benzene              | 10  | IU |
| 127-18-4 | Tetrachloroethene    | 10  | IU |
| 108-90-7 | Chlorobenzene        | 10  | IU |

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-E-SB42D

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDS No.: SB2700

Matrix: (soil/water) WATER

Lab Sample ID: 940246-35

Sample wt/vol: 300.0 (g/mL) ML

Lab File ID: DC708

Level: (low/med) LOW

Date Received: 03/29/94

% Moisture: decanted: (Y/N) N

Date Extracted: 04/05/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 04/06/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

| CAS NO.  | COMPOUND              | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | G  |
|----------|-----------------------|--|----|
| 110-86-1 | Pyridine              | 33   | 1U |
| 106-46-7 | 1,4-Dichlorobenzene   | 33   | 1U |
|          | Methylphenols (total) | 33   | 1U |
| 67-72-1  | Hexachloroethane      | 33   | 1U |
| 98-95-3  | Nitrobenzene          | 33   | 1U |
| 87-68-3  | Hexachlorobutadiene   | 33   | 1U |
| 88-06-2  | 2,4,6-Trichlorophenol | 33   | 1U |
| 95-95-4  | 2,4,5-Trichlorophenol | 83   | 1U |
| 121-14-2 | 2,4-Dinitrotoluene    | 33   | 1U |
| 118-74-1 | Hexachlorobenzene     | 33   | 1U |
| 87-86-5  | Pentachlorophenol     | 83   | 1U |

## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 28-E-SB42

Laboratory ID: 940246-34

Date Sample Received: 3/29/94

Date Sampled: 3/28/94

---

| Target Analyte    | Result | Units | Method Reporting Limit | Date Analyzed |
|-------------------|--------|-------|------------------------|---------------|
| Flashpoint        | NC     | °F    | 200                    | 3/30/94       |
| pH                | 5.60   | S.U.  | ---                    | 3/30/94       |
| Reactive Cyanide* | ND     | mg/kg | 0.6                    | 3/29/94       |
| Reactive Sulfide* | ND     | mg/kg | 1.4                    | 3/29/94       |

---

NC = No combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 87.4%

1264

TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

28-E-SB42

Lab Name: CEIMIC CORPORATION Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: SDG No.: SB27-00  
 Matrix (soil/water): WATER Lab Sample ID: 942246-34 S  
 Level (low/med): LOW Date Received: 03/29/94  
 % Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | Q  | M   |
|------------|----------|---------------|----|-----|
| 17440-38-2 | Arsenic  | 25.0          | UI | IP  |
| 17440-39-2 | Barium   | 332           | BI | IP  |
| 17440-43-9 | Cadmium  | 3.0           | UI | IP  |
| 17440-47-3 | Chromium | 7.2           | BI | IP  |
| 17439-92-1 | Lead     | 63.1          | BI | IP  |
| 17439-97-6 | Mercury  | 0.14          | UI | AVI |
| 17782-49-2 | Selenium | 49.0          | UI | IP  |
| 17440-22-4 | Silver   | 5.0           | UI | IP  |

Color Before: COLORLESS Clarity Before: CLEAR Texture:  
 Color After: COLORLESS Clarity After: CLEAR Artifacts:  
 Comments:

1240A

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client Sample ID: 28-E-SB42

Laboratory ID: 940246-34

Date Sample Received: 3/29/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/12/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limit |
|-------------------|----------------------|------------------------|
| 2,4-D             | ND                   | 10                     |
| 2,4,5-TP (Silvex) | ND                   | 10                     |

---

ND = Not detected

1227

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client Sample ID: 28-E-SB42

Laboratory ID: 940246-34

Date Sample Received: 3/29/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/12/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limit |
|-------------------|----------------------|------------------------|
| 2,4-D             | ND                   | 10                     |
| 2,4,5-TP (Silvex) | ND                   | 10                     |

---

ND = Not detected



1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-E-SB42

Lab Name: CEIMIC CORP Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: \_\_\_\_\_ SDG No.: SB2700  
 Matrix: (soil/water) WATER Lab Sample ID: 940246-34  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H4392  
 Level: (low/med) LOW Date Received: 03/29/94  
 % Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/94  
 GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS:        |          |
|----------|----------------------|-----------------------------|----------|
|          |                      | (ug/L or ug/Kg) <u>UG/L</u> | <u>Q</u> |
| 75-01-4  | Vinyl Chloride       | 10                          | IU       |
| 75-35-4  | 1,1-Dichloroethene   | 10                          | IU       |
| 67-66-3  | Chloroform           | 10                          | IU       |
| 107-06-2 | 1,2-Dichloroethane   | 10                          | IU       |
| 78-93-3  | 2-Butanone           | 10                          | IU       |
| 56-23-5  | Carbon Tetrachloride | 10                          | IU       |
| 79-01-6  | Trichloroethene      | 10                          | IU       |
| 71-43-2  | Benzene              | 10                          | IU       |
| 127-18-4 | Tetrachloroethene    | 10                          | IU       |
| 108-90-7 | Chlorobenzene        | 10                          | IU       |



1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-E-SB42

Job Name: CEIMIC CORP Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: SDG No.: SB2700  
 Matrix: (soil/water) WATER Lab Sample ID: 940246-34  
 Sample wt/vol: 300.0 (g/mL) ML Lab File ID: DC707  
 Level: (low/med) LOW Date Received: 03/29/94  
 % Moisture: decanted: (Y/N) N Date Extracted: 04/05/94  
 Concentrated Extract Volume: 1000(uL) Date Analyzed: 04/06/94  
 Injection Volume: 2.0(uL) Dilution Factor: 1.0  
 SPC Cleanup: (Y/N) N pH:

| CAS NO.  | COMPOUND              | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L |    | Q |
|----------|-----------------------|--|----|---|
| 110-86-1 | Pyridine              | 33   | 1U |   |
| 106-46-7 | 1,4-Dichlorobenzene   | 33   | 1U |   |
|          | Methylphenols (total) | 33   | 1U |   |
| 67-72-1  | Hexachloroethane      | 33   | 1U |   |
| 98-95-3  | Nitrobenzene          | 33   | 1U |   |
| 87-68-3  | Hexachlorobutadiene   | 33   | 1U |   |
| 88-06-2  | 2,4,6-Trichlorophenol | 33   | 1U |   |
| 95-95-4  | 2,4,5-Trichlorophenol | 83   | 1U |   |
| 121-14-2 | 2,4-Dinitrotoluene    | 33   | 1U |   |
| 118-74-1 | Hexachlorobenzene     | 33   | 1U |   |
| 87-86-5  | Pentachlorophenol     | 83   | 1U |   |

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 28-E-SB42

Laboratory ID: 940246-34

Date Sample Received: 3/29/94

Date Sample Prepared: 4/05/94

Date Sample Analyzed: 4/06/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | .17                    |
| Heptachlor          | ND                   | .17                    |
| Heptachlor Epoxide  | ND                   | .17                    |
| Endrin              | ND                   | .33                    |
| Methoxychlor        | ND                   | 1.7                    |
| Toxaphene           | ND                   | 17.0                   |
| Chlordane           | ND                   | 1.7                    |

---

ND = Not detected

1201

## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 28-RB01

Laboratory ID: 940390-01

Date Sample Received: 5/07/94

Date Sampled: 5/06/94

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| Target Analyte   | Result | Units  | Method Reporting Limit | Date Analyzed |
|------------------|--------|--------|------------------------|---------------|
| Flashpoint       | NC     | °F     | 200                    | 5/10/94       |
| pH               | 10.09  | S.U.   | ---                    | 5/09/94       |
| Reactive Cyanide | ND     | mg/kg* | 0.6                    | 5/09/94       |
| Reactive Sulfide | 17.3   | mg/kg* | 1.6                    | 5/09/94       |

---

NC = No Combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 79.4%

231

TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

28-RB01

Lab Name: CEIMIC CORPORATION

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 28RB01

Matrix (soil/water): WATER

Lab Sample ID: 940390-01 S

Level (low/med): LOW

Date Received: 05/07/94

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | Q  | M   |
|------------|----------|---------------|----|-----|
| 17440-38-2 | Arsenic  | 25.0          | UI | IP  |
| 17440-39-2 | Barium   | 278           | BI | IP  |
| 17440-43-9 | Cadmium  | 3.0           | UI | IP  |
| 17440-47-3 | Chromium | 7.0           | UI | IP  |
| 17439-92-1 | Lead     | 61.0          | UI | IP  |
| 17439-97-6 | Mercury  | 0.13          | UI | AVI |
| 17782-49-2 | Selenium | 49.0          | UI | IP  |
| 17440-22-4 | Silver   | 5.0           | UI | IP  |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client ID: 28-RB01

Laboratory ID: 940390-01

Date Sample Received: 5/07/94

Date Sample Prepared: 5/12/94

Date Sample Analyzed: 5/14/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limits |
|-------------------|----------------------|-------------------------|
| 2,4-D             | ND                   | 33                      |
| 2,4,5-TP (Silvex) | ND                   | 10                      |

---

ND = Not detected

124

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 28-RB02

Laboratory ID: 940390-02

Date Sample Received: 5/07/94

Date Sample Prepared: 5/10/94

Date Sample Analyzed: 5/14/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | 0.2                    |
| Heptachlor          | ND                   | 0.2                    |
| Heptachlor Epoxide  | ND                   | 0.2                    |
| Endrin              | ND                   | 0.4                    |
| Methoxychlor        | ND                   | 8                      |
| Toxaphene           | ND                   | 20                     |
| Chlordane           | ND                   | 20                     |

---

ND = Not detected

ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: BAKER

28-RB01

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 28RB01

Matrix: (soil/water) WATER

Lab Sample ID: 940390-01

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: J8652

Level: (low/med) LOW

Date Received: 05/07/94

% Moisture: decanted: (Y/N) N

Date Extracted: 05/11/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/15/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

| CAS NO.  | COMPOUND              | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q  |
|----------|-----------------------|--|----|
| 110-86-1 | Pyridine              | 40   | 1U |
| 106-46-7 | 1,4-Dichlorobenzene   | 40   | 1U |
|          | Methylphenols (total) | 40   | 1U |
| 67-72-1  | Hexachloroethane      | 40   | 1U |
| 98-95-3  | Nitrobenzene          | 40   | 1U |
| 87-68-3  | Hexachlorobutadiene   | 40   | 1U |
| 88-06-2  | 2,4,6-Trichlorophenol | 40   | 1U |
| 95-95-4  | 2,4,5-Trichlorophenol | 100  | 1U |
| 121-14-2 | 2,4-Dinitrotoluene    | 40   | 1U |
| 118-74-1 | Hexachlorobenzene     | 40   | 1U |
| 87-86-5  | Pentachlorophenol     | 100  | 1U |

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-RB01

Lab Name: CEIMIC CORP Contract: BAKER

Lab Code: CEIMIC Case No.: 19231 SAS No.: \_\_\_\_\_ SDG No.: 28RB01

Matrix: (soil/water) WATER Lab Sample ID: 940390-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 67773

Level: (low/med) LOW Date Received: 05/07/94

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 05/10/94

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_(uL) Soil Aliquot Volume: \_\_\_\_\_(uL)

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS:        |          |
|----------|----------------------|-----------------------------|----------|
|          |                      | (ug/L or ug/Kg) <u>UG/L</u> | <u>Q</u> |
| 75-01-4  | Vinyl Chloride       | 10                          | IU       |
| 75-35-4  | 1,1-Dichloroethene   | 10                          | IU       |
| 67-66-3  | Chloroform           | 10                          | IU       |
| 107-06-2 | 1,2-Dichloroethane   | 10                          | IU       |
| 78-93-3  | 2-Butanone           | 10                          | IU       |
| 56-23-5  | Carbon Tetrachloride | 10                          | IU       |
| 79-01-6  | Trichloroethene      | 10                          | IU       |
| 71-43-2  | Benzene              | 10                          | IU       |
| 127-18-4 | Tetrachloroethene    | 10                          | IU       |
| 108-90-7 | Chlorobenzene        | 10                          | IU       |



## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 28-RB02

Laboratory ID: 940390-02

Date Sample Received: 5/07/94

Date Sampled: 5/06/94

---

| Target Analyte   | Result | Units  | Method Reporting Limit | Date Analyzed |
|------------------|--------|--------|------------------------|---------------|
| Flashpoint       | NC     | °F     | 200                    | 5/10/94       |
| pH               | 12.06  | S.U.   | ---                    | 5/09/94       |
| Reactive Cyanide | ND     | mg/kg* | 1.5                    | 5/09/94       |
| Reactive Sulfide | 5.3    | mg/kg* | 3.8                    | 5/09/94       |

---

NC = No Combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 32.9%

232

TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

28-RB02

Lab Name: CEIMIC CORPORATION

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 28RB01

Matrix (soil/water): WATER

Lab Sample ID: 940390-02 S

Level (low/med): LOW

Date Received: 05/07/94

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| CAS No.    | Analyte  | Concentration | CI | Q | IM |
|------------|----------|---------------|----|---|----|
| 17440-38-2 | Arsenic  | 45.6          | B  |   | P  |
| 17440-39-2 | Barium   | 17.2          | B  |   | P  |
| 17440-43-9 | Cadmium  | 3.0           | U  |   | P  |
| 17440-47-3 | Chromium | 7.0           | U  |   | P  |
| 17439-92-1 | Lead     | 61.0          | U  |   | P  |
| 17439-97-6 | Mercury  | 0.13          | U  |   | AV |
| 17782-49-2 | Selenium | 49.0          | U  |   | P  |
| 17440-22-4 | Silver   | 5.0           | U  |   | P  |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

ORGANOCHLORINE HERBICIDES

EPA Method 8150

Client: Baker Environmental

Client ID: 28-RB02

Laboratory ID: 940390-02

Date Sample Received: 5/07/94

Date Sample Prepared: 5/12/94

Date Sample Analyzed: 5/14/94

Concentration in:  $\mu\text{g/L}$  (ppb)

| Target Analyte    | Sample Concentration | Method Reporting Limits |
|-------------------|----------------------|-------------------------|
| 2,4-D             | ND                   | 33                      |
| 2,4,5-TP (Silvex) | ND                   | 10                      |

ND = Not detected

*126A*

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 28-RB01

Laboratory ID: 940390-01

Date Sample Received: 5/07/94

Date Sample Prepared: 5/10/94

Date Sample Analyzed: 5/14/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | 0.2                    |
| Heptachlor          | ND                   | 0.2                    |
| Heptachlor Epoxide  | ND                   | 0.2                    |
| Endrin              | ND                   | 0.4                    |
| Methoxychlor        | ND                   | 8                      |
| Toxaphene           | ND                   | 20                     |
| Chlordane           | ND                   | 20                     |

---

ND = Not detected

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-RB02

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 28RB01

Matrix: (soil/water) WATER

Lab Sample ID: 940390-02

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: J8653

Level: (low/med) LOW

Date Received: 05/07/94

% Moisture: decanted: (Y/N) N

Date Extracted: 05/11/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/15/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

| CAS NO.  | COMPOUND              | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q |
|----------|-----------------------|--|---|
| 110-86-1 | Pyridine              | 40   | U |
| 106-46-7 | 1,4-Dichlorobenzene   | 40   | U |
|          | Methylphenols (total) | 40   | U |
| 67-72-1  | Hexachloroethane      | 40   | U |
| 98-95-3  | Nitrobenzene          | 40   | U |
| 87-68-3  | Hexachlorobutadiene   | 40   | U |
| 88-06-2  | 2,4,6-Trichlorophenol | 40   | U |
| 95-95-4  | 2,4,5-Trichlorophenol | 100  | U |
| 121-14-2 | 2,4-Dinitrotoluene    | 40   | U |
| 118-74-1 | Hexachlorobenzene     | 40   | U |
| 87-86-5  | Pentachlorophenol     | 100  | U |

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

28-RB02

Lab Name: CEIMIC CORP Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: \_\_\_\_\_ SDG No.: 28RB01  
 Matrix: (soil/water) WATER Lab Sample ID: 940390-02  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 67767  
 Level: (low/med) LOW Date Received: 05/07/94  
 % Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 05/10/94  
 GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.  | COMPOUND             | (ug/L or ug/Kg) | UG/L | Q |
|----------|----------------------|-----------------|------|---|
| 75-01-4  | Vinyl Chloride       | 10              | IU   |   |
| 75-35-4  | 1,1-Dichloroethene   | 10              | IU   |   |
| 67-66-3  | Chloroform           | 10              | IU   |   |
| 107-06-2 | 1,2-Dichloroethane   | 10              | IU   |   |
| 78-93-3  | 2-Butanone           | 10              | IU   |   |
| 56-23-5  | Carbon Tetrachloride | 10              | IU   |   |
| 79-01-6  | Trichloroethene      | 10              | IU   |   |
| 71-43-2  | Benzene              | 10              | IU   |   |
| 127-18-4 | Tetrachloroethene    | 10              | IU   |   |
| 108-90-7 | Chlorobenzene        | 10              | IU   |   |



## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 30-SB17

Laboratory ID: 940226-35

Date Sample Received: 3/25/94

Date Sampled: 3/24/94

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| Target Analyte    | Result | Units | Method Reporting Limit | Date Analyzed |
|-------------------|--------|-------|------------------------|---------------|
| Flashpoint        | NC     | °F    | 200                    | 3/30/94       |
| pH                | 4.70   | S.U.  | ---                    | 3/29/94       |
| Reactive Cyanide* | ND     | mg/kg | 0.5                    | 3/28/94       |
| Reactive Sulfide* | ND     | mg/kg | 1.3                    | 3/28/94       |

---

NC = No Combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 94.4%

1265



TCLP METALS  
1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

L30-SB17

Lab Name: CEIMIC CORPORATION Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: SDG No.: SB0902  
 Matrix (soil/water): WATER Lab Sample ID: 942226-35 S  
 Level (low/med): LOW Date Received: 03/25/94  
 % Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| ICAS No.   | Analyte  | Concentration | Q | IM |
|------------|----------|---------------|---|----|
| 17440-38-2 | Arsenic  | 25.0          | U | P  |
| 17440-39-2 | Barium   | 450           | B | P  |
| 17440-43-9 | Cadmium  | 3.0           | U | P  |
| 17440-47-3 | Chromium | 7.0           | U | P  |
| 17439-92-1 | Lead     | 61.0          | U | P  |
| 17439-97-6 | Mercury  | 0.14          | U | AV |
| 17782-49-2 | Selenium | 49.0          | U | P  |
| 17440-22-4 | Silver   | 5.0           | U | P  |

Color Before: COLORLESS Clarity Before: CLEAR Texture:  
 Color After: COLORLESS Clarity After: CLEAR Artifacts:  
 Comments:

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1214

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

EPA Method 8150

Client: Baker Environmental

Client Sample ID: 30-SB17

Laboratory ID: 940226-35

Date Sample Received: 3/25/94

Date Sample Prepared: 3/30/94

Date Sample Analyzed: 4/12/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limit |
|-------------------|----------------------|------------------------|
| 2,4-D             | ND                   | 10                     |
| 2,4,5-TP (Silvex) | ND                   | 10                     |

---

ND = Not detected

1187

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 30-SB17

Laboratory ID: 940226-35

Date Sample Received: 3/25/94

Date Sample Prepared: 3/29/94

Date Sample Analyzed: 4/11/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | .17                    |
| Heptachlor          | ND                   | .17                    |
| Heptachlor Epoxide  | ND                   | .17                    |
| Endrin              | ND                   | .33                    |
| Methoxychlor        | ND                   | 1.7                    |
| Toxaphene           | ND                   | 17.0                   |
| Chlordane           | ND                   | 1.7                    |

---

ND = Not detected

1150

# CEIMIC CORPORATION

*"Analytical Chemistry for Environmental Management"*

## TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)

### SEMIVOLATILE ORGANICS TARGET ANALYTES

Client: Baker Environmental .

Date Sampled: 3/24/94

Client Sample ID: 30-SB17

TCLP Performed: 3/27/94

Laboratory ID: 940226-35

Date Leachate Extracted: 3/30/94

Concentration in: ug/L (ppb)

Date Extract Analyzed: 3/31/94

| Target Analyte           | Sample<br>Concentration | Method<br>Reporting Limits |
|--------------------------|-------------------------|----------------------------|
| Pyridine                 | ND                      | 33                         |
| 2,4-Dinitrotoluene       | ND                      | 33                         |
| Hexachlorobenzene        | ND                      | 33                         |
| Hexachloro-1,3-butadiene | ND                      | 33                         |
| Hexachloroethane         | ND                      | 33                         |
| Nitrobenzene             | ND                      | 33                         |
| 1,4-Dichlorobenzene      | ND                      | 33                         |
| Methylphenols (total)    | ND                      | 33                         |
| Pentachlorophenol        | ND                      | 83                         |
| 2,4,5-Trichlorophenol    | ND                      | 83                         |
| 2,4,6-Trichlorophenol    | ND                      | 33                         |

ND = Not detected

Reported by: DOApproved by: DK

1111

10 Dean Knauss Drive, Narragansett, R.I. 02882 • (401) 782-8900 • FAX (401) 782-8905

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

30-SB17

Lab Name: CEIMIC CORP Contract: BAKER

Lab Code: CEIMIC Case No.: 19231 SAS No.: \_\_\_\_\_ SDG No.: SB0902

Matrix: (soil/water) WATER Lab Sample ID: 940226-35

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: FB965

Level: (low/med) LOW Date Received: 03/25/94

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/29/94

GC Column: HP-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS:        |          |
|----------|----------------------|-----------------------------|----------|
|          |                      | (ug/L or ug/Kg) <u>UG/L</u> | <u>g</u> |
| 75-01-4  | Vinyl Chloride       | 10                          | IU       |
| 75-35-4  | 1,1-Dichloroethene   | 10                          | IU       |
| 67-66-3  | Chloroform           | 10                          | IU       |
| 107-06-2 | 1,2-Dichloroethane   | 10                          | IU       |
| 78-93-3  | 2-Butanone           | 10                          | IU       |
| 56-23-5  | Carbon Tetrachloride | 10                          | IU       |
| 79-01-6  | Trichloroethene      | 10                          | IU       |
| 71-43-2  | Benzene              | 10                          | IU       |
| 127-18-4 | Tetrachloroethene    | 10                          | IU       |
| 108-90-7 | Chlorobenzene        | 10                          | IU       |

1062

## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 30-3DRMC

Laboratory ID: 940370-01

Date Sample Received: 5/04/94

Date Sampled: 5/03/94

---

| Target Analyte   | Result | Units  | Method Reporting Limit | Date Analyzed |
|------------------|--------|--------|------------------------|---------------|
| Flashpoint       | NC     | °F     | 200                    | 5/05/94       |
| pH               | 7.08   | S.U.   | ---                    | 5/04/94       |
| Reactive Cyanide | ND     | mg/kg* | 0.6                    | 5/04/94       |
| Reactive Sulfide | ND     | mg/kg* | 1.5                    | 5/04/94       |

---

NC = No Combustion

ND = Not detected

\* Reported on a dry weight basis, total solids = 81.5%

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE ID

30-3DRMC

Lab Name: CEIMIC CORPORATION

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 03DRMC

Matrix (soil/water): WATER

Lab Sample ID: 940370-01 S

Level (low/med): LOW

Date Received: 05/04/94

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

| ICAS No.   | Analyte  | Concentration | Q | M |
|------------|----------|---------------|---|---|
| 17440-38-2 | Arsenic  | 45.8          |   |   |
| 17440-39-2 | Barium   | 313           |   |   |
| 17440-43-9 | Cadmium  | 3.0           |   |   |
| 17440-47-3 | Chromium | 7.0           |   |   |
| 17439-92-1 | Lead     | 61.0          |   |   |
| 17439-97-6 | Mercury  | 0.10          |   |   |
| 17782-49-2 | Selenium | 49.0          |   |   |
| 17440-22-4 | Silver   | 5.0           |   |   |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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117

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE HERBICIDES

## EPA Method 8150

Client: Baker Environmental

Client ID: 30-3DRMC

Laboratory ID: 940370-01

Date Sample Received: 5/04/94

Date Sample Prepared: 5/07/94

Date Sample Analyzed: 5/09/94

Concentration in: ug/L (ppb)

---

| Target Analyte    | Sample Concentration | Method Reporting Limits |
|-------------------|----------------------|-------------------------|
| 2,4-D             | ND                   | 33                      |
| 2,4,5-TP (Silvex) | ND                   | 10                      |

---

ND = Not detected



## TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

## ORGANOCHLORINE PESTICIDES

## EPA Method 8080

Client: Baker Environmental

Client Sample ID: 30-3DRMC

Laboratory ID: 940370-01

Date Sample Received: 5/04/94

Date Sample Prepared: 5/07/94

Date Sample Analyzed: 5/08/94

Concentration in:  $\mu\text{g/L}$  (ppb)

---

| Target Analyte      | Sample Concentration | Method Reporting Limit |
|---------------------|----------------------|------------------------|
| gamma-BHC (Lindane) | ND                   | 0.17                   |
| Heptachlor          | ND                   | 0.17                   |
| Heptachlor Epoxide  | ND                   | 0.17                   |
| Endrin              | ND                   | 0.33                   |
| Methoxychlor        | ND                   | 1.7                    |
| Toxaphene           | ND                   | 17                     |
| Chlordane           | ND                   | 1.7                    |

---

ND - Not detected

## ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

30-3DRMC

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC

Case No.: 19231

SAS No.:

SDG No.: 03DRMC

Matrix: (soil/water) WATER

Lab Sample ID: 940370-01

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: J8546

Level: (low/med) LOW

Date Received: 05/04/94

% Moisture: decanted: (Y/N) N

Date Extracted: 05/07/94

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 05/08/94

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

| CAS NO.  | COMPOUND              |     | Q   |
|----------|-----------------------|-----|-----|
| 110-86-1 | Pyridine              | 40  | IU  |
| 106-46-7 | 1,4-Dichlorobenzene   | 40  | IU  |
|          | Methylphenols (total) | 6   | IJX |
| 67-72-1  | Hexachloroethane      | 40  | IU  |
| 98-95-3  | Nitrobenzene          | 40  | IU  |
| 87-68-3  | Hexachlorobutadiene   | 40  | IU  |
| 88-06-2  | 2,4,6-Trichlorophenol | 40  | IU  |
| 95-95-4  | 2,4,5-Trichlorophenol | 100 | IU  |
| 121-14-2 | 2,4-Dinitrotoluene    | 40  | IU  |
| 118-74-1 | Hexachlorobenzene     | 40  | IU  |
| 87-86-5  | Pentachlorophenol     | 100 | IU  |

FORM I X-1

53  
3/90

1X  
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

30-3DRMC

Lab Name: CEIMIC CORP Contract: BAKER  
 Lab Code: CEIMIC Case No.: 19231 SAS No.: \_\_\_\_\_ SDG No.: Q3DRMC  
 Matrix: (soil/water) WATER Lab Sample ID: 940370-01  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H4723  
 Level: (low/med) LOW Date Received: 05/04/94  
 % Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 05/06/94  
 GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

| CAS NO.  | COMPOUND             | CONCENTRATION UNITS: |      |
|----------|----------------------|----------------------|------|
|          |                      | (ug/L or ug/Kg)      | UG/L |
| 75-01-4  | Vinyl Chloride       | 10                   | IU   |
| 75-35-4  | 1,1-Dichloroethene   | 10                   | IU   |
| 67-66-3  | Chloroform           | 10                   | IU   |
| 107-06-2 | 1,2-Dichloroethane   | 10                   | IU   |
| 78-93-3  | 2-Butanone           | 10                   | IU   |
| 56-23-5  | Carbon Tetrachloride | 10                   | IU   |
| 79-01-6  | Trichloroethene      | 10                   | IU   |
| 71-43-2  | Benzene              | 10                   | IU   |
| 127-18-4 | Tetrachloroethene    | 10                   | IU   |
| 108-90-7 | Chlorobenzene        | 10                   | IU   |

**APPENDIX H  
GRAIN SIZE AND  
WET CHEMISTRY RESULTS**

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**SITE 1**

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07-06-1994 09:53AM FROM CEIMIC CORPORATION  
 4/30 940320-08

GEOTECHNICAL TESTING DATA AND RESULTS

940320-08

|              |                    |                     |          |                 |          |
|--------------|--------------------|---------------------|----------|-----------------|----------|
| PROJECT      | CEIMIC Corporation | PROJECT SAMPLE I.D. | 1-S-SB40 | PROJECT ANALYST | SPM      |
| JOB NUMBER   | 9404X008           | ETL SAMPLE NUMBER   | 001      | QA/QC ANALYST   | RWF      |
| W. O. NUMBER |                    | DATE RECEIVED       | 04/21/94 | DATE COMPLETED  | 04/28/94 |

PARTICLE SIZE DISTRIBUTION

| U. S. Standard Sieve Size | Diameter mm | % Finer |
|---------------------------|-------------|---------|
| 3"                        | 75.00       | 100.0   |
| 1 1/2"                    | 37.50       | 100.0   |
| 3/4"                      | 19.00       | 100.0   |
| 3/8"                      | 9.500       | 99.7    |
| #4                        | 4.750       | 99.5    |
| #10                       | 2.000       | 99.4    |
| #20                       | 0.850       | 99.3    |
| #50                       | 0.300       | 98.4    |
| #100                      | 0.150       | 50.6    |
| #200                      | 0.075       | 15.6    |
| HYDROMETER                | 0.0484      | 13.8    |
|                           | 0.0347      | 12.2    |
|                           | 0.0247      | 11.4    |
|                           | 0.0174      | 11.4    |
|                           | 0.0127      | 11.4    |
|                           | 0.0091      | 10.6    |
|                           | 0.0064      | 9.8     |
|                           | 0.0046      | 9.0     |
|                           | 0.0033      | 8.2     |
|                           | 0.0023      | 8.2     |
| 0.0013                    | 8.4         |         |
| 0.0009                    | 7.6         |         |

EFFECTIVE SIZES

| % Finer                | Diameter mm           |
|------------------------|-----------------------|
| 60                     | 0.180                 |
| 30                     | 0.106                 |
| 10                     | NA                    |
| Uniformity Coefficient | Gradation Coefficient |
| NA                     | NA                    |

SAMPLE DESCRIPTION

light brown silty SAND  
with 16% silt of low plasticity

Unified Soil Classification System (USCS)  
Group Symbol

SM

INDEX PROPERTIES

% moisture dry basis

| Liquid Limit              | Plastic Limit | Plasticity Index |
|---------------------------|---------------|------------------|
| non-cohesive, non-plastic |               |                  |

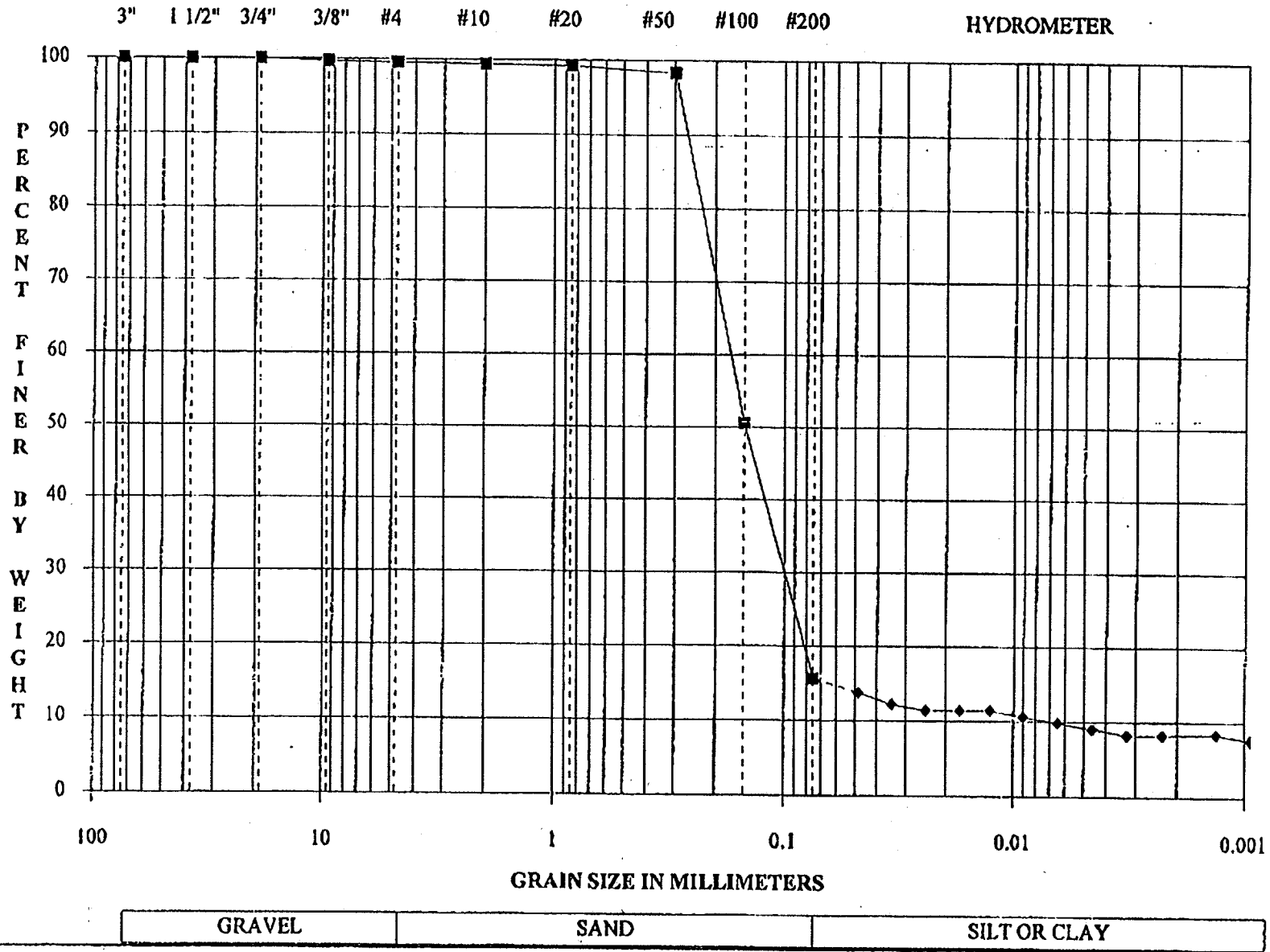
NOTES

NA=NOT APPLICABLE

1633

07-06-1994 09:53AM FROM CEIMIC CORPORATION TO 14122696097 P.05

**PARTICLE-SIZE DISTRIBUTION CURVE FOR  
PROJECT SAMPLE 1-S-SB40, ETL SAMPLE 9404X008-001**  
U. S. STANDARD SIEVE SIZES



1634

INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 1-GW17-01

Laboratory ID: 940341-25

Date Sample Received: 4/26/94

Date Sampled: 4/24/94

---

| Target Analyte                     | Result | Units | Method Reporting Limit | Date Analyzed |
|------------------------------------|--------|-------|------------------------|---------------|
| Alkalinity (as CaCO <sub>3</sub> ) | 480    | mg/L  | 2.0                    | 5/03/94       |
| Biochemical Oxygen Demand (BOD)    | ND     | mg/L  | 2.0                    | 4/26/94       |
| Chemical Oxygen Demand (COD)       | 19.5   | mg/L  | 5.0                    | 5/03/94       |
| Chloride                           | 6.3    | mg/L  | 2.0                    | 5/03/94       |
| Fluoride                           | 0.20   | mg/L  | 0.10                   | 5/05/94       |
| Total Dissolved Solids (TDS)       | 403    | mg/L  | 5.0                    | 4/29/94       |
| Total Kjeldahl Nitrogen (TKN as N) | 2.09   | mg/L  | 0.20                   | 5/03/94       |
| Total Suspended Solids (TSS)       | 552    | mg/L  | 5.0                    | 4/29/94       |

---

ND = Not detected



**SITE 28**

---

*in wavy package*

GEOTECHNICAL TESTING DATA AND RESULTS

*Red 2 1/2 in. bag*

|              |                       |                     |           |                 |          |
|--------------|-----------------------|---------------------|-----------|-----------------|----------|
| PROJECT      | Cemic Corporation     | PROJECT SAMPLE I.D. | 28-E-SB42 | PROJECT ANALYST | WB       |
| JOB NUMBER   | 9403X004              | ETL SAMPLE NUMBER   | 002       | QA/QC ANALYST   | RWF      |
| W. O. NUMBER | 05899-001-001-0012-00 | DATE RECEIVED       | 03/31/94  | DATE COMPLETED  | 04/08/94 |

| PARTICLE SIZE DISTRIBUTION |             |         |
|----------------------------|-------------|---------|
| U. S. Standard Sieve Size  | Diameter mm | % Finer |
| 3"                         | 75.00       | 100.0   |
| 1 1/2"                     | 37.50       | 100.0   |
| 3/4"                       | 19.00       | 99.7    |
| 3/8"                       | 9.500       | 98.1    |
| #4                         | 4.750       | 97.1    |
| #10                        | 2.000       | 96.5    |
| #20                        | 0.850       | 95.2    |
| #50                        | 0.300       | 88.6    |
| #100                       | 0.150       | 45.5    |
| #200                       | 0.075       | 20.7    |
| HYDROMETER                 | 0.0442      | 19.5    |
|                            | 0.0317      | 18.1    |
|                            | 0.0226      | 17.3    |
|                            | 0.0161      | 16.6    |
|                            | 0.0119      | 15.2    |
|                            | 0.0085      | 13.8    |
|                            | 0.0061      | 12.4    |
|                            | 0.0043      | 11.7    |
|                            | 0.0031      | 11.0    |
|                            | 0.0022      | 10.1    |
| 0.0013                     | 9.4         |         |
| 0.0009                     | 8.7         |         |

| EFFECTIVE SIZES        |                       |
|------------------------|-----------------------|
| % Finer                | Diameter mm           |
| 60                     | 0.201                 |
| 30                     | 0.103                 |
| 10                     | NA                    |
| Uniformity Coefficient | Gradation Coefficient |
| NA                     | NA                    |

| SAMPLE DESCRIPTION  |
|---|
| brown silty SAND<br>with 3% gravel and 21% silt of low plasticity |
| Unified Soil Classification System (USCS)<br>Group Symbol         |
| SM  |

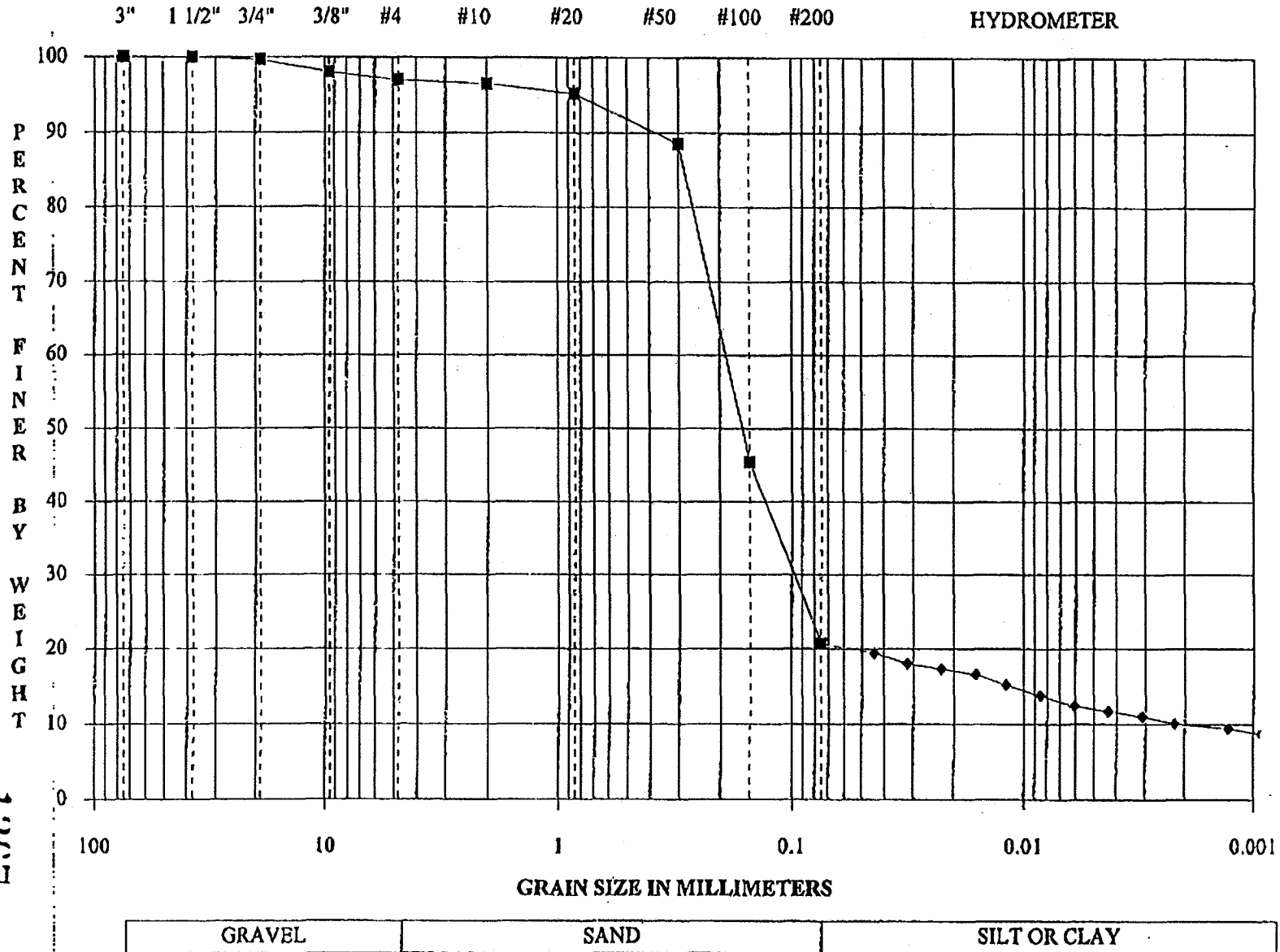
| INDEX PROPERTIES          |               |                  |
|---------------------------|---------------|------------------|
| % moisture dry basis      |               |                  |
| Liquid Limit              | Plastic Limit | Plasticity Index |
| non-cohesive, non-plastic |               |                  |

NOTES

NA=NOT APPLICABLE

07-06-1994 09:53AM FROM CEMIC CORPORATION TO 14122696097 P.06  
 4108826-55 /30

**PARTICLE-SIZE DISTRIBUTION CURVE FOR  
PROJECT SAMPLE 28-E-SB42, ETL SAMPLE 9403X004-002  
U. S. STANDARD SIEVE SIZES**



1267

07-06-1994 09:54AM FROM CEIMIC CORPORATION TO 14122696097 P.07

3/30 940248-25

ROY F. WESTON, INC. ENVIRONMENTAL TECHNOLOGY LABORATORY

GEOTECHNICAL TESTING DATA AND RESULTS

940248-25

|              |                       |                     |           |                 |          |
|--------------|-----------------------|---------------------|-----------|-----------------|----------|
| PROJECT      | Cemic Corporation     | PROJECT SAMPLE I.D. | 28-W-SB41 | PROJECT ANALYST | WB       |
| JOB NUMBER   | 9403X004              | ETL SAMPLE NUMBER   | 003       | QA/QC ANALYST   | RWF      |
| W. O. NUMBER | 05899-001-001-0012-00 | DATE RECEIVED       | 03/31/94  | DATE COMPLETED  | 04/08/94 |

| PARTICLE SIZE DISTRIBUTION |             |         |
|----------------------------|-------------|---------|
| U. S. Standard Sieve Size  | Diameter mm | % Finer |
| 3"                         | 75.00       | 100.0   |
| 1 1/2"                     | 37.50       | 100.0   |
| 3/4"                       | 19.00       | 97.9    |
| 3/8"                       | 9.500       | 94.1    |
| #4                         | 4.750       | 89.2    |
| #10                        | 2.000       | 85.9    |
| #20                        | 0.850       | 82.1    |
| #50                        | 0.300       | 74.0    |
| #100                       | 0.150       | 38.4    |
| #200                       | 0.075       | 20.5    |
| HYDROMETER                 | 0.0475      | 17.6    |
|                            | 0.0321      | 16.2    |
|                            | 0.0229      | 15.5    |
|                            | 0.0163      | 14.9    |
|                            | 0.0120      | 14.2    |
|                            | 0.0086      | 12.8    |
|                            | 0.0061      | 12.1    |
|                            | 0.0044      | 9.4     |
|                            | 0.0032      | 8.0     |
|                            | 0.0023      | 7.1     |
|                            | 0.0013      | 6.4     |
| 0.0009                     | 5.1         |         |

| EFFECTIVE SIZES        |                       |
|------------------------|-----------------------|
| % Finer                | Diameter mm           |
| 60                     | 0.241                 |
| 30                     | 0.115                 |
| 10                     | NA                    |
| Uniformity Coefficient | Gradation Coefficient |
| NA                     | NA                    |

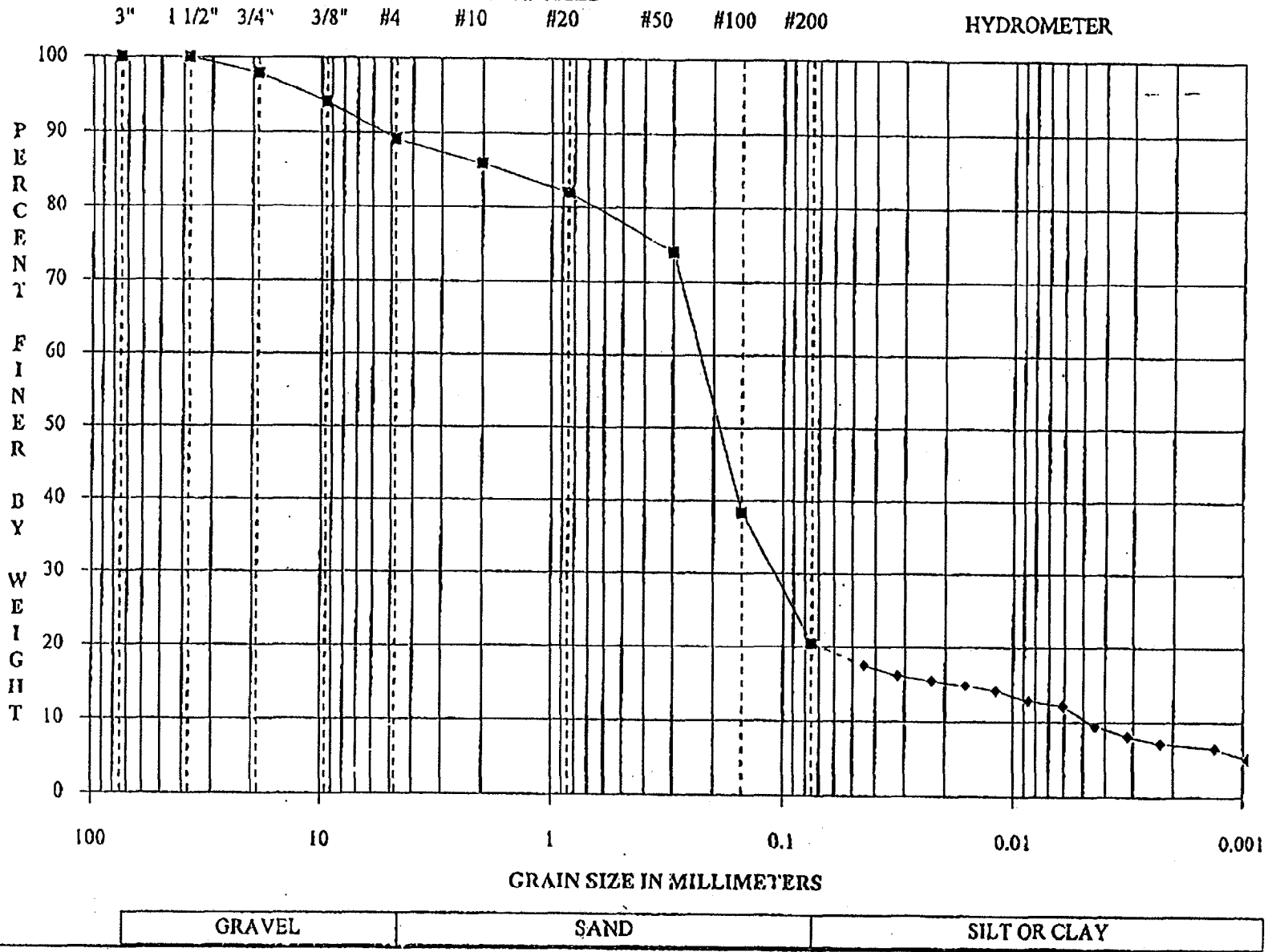
| SAMPLE DESCRIPTION   |
|--|
| dark brown silty SAND with 11% gravel and 20% silt of low plasticity |
| Unified Soil Classification System (USCS)<br>Group Symbol            |
| SM   |

| INDEX PROPERTIES          |               |                  |
|---------------------------|---------------|------------------|
| % moisture dry basis      |               |                  |
| Liquid Limit              | Plastic Limit | Plasticity Index |
| non-cohesive, non-plastic |               |                  |

|                   |
|-------------------|
| NOTES             |
| NA=NOT APPLICABLE |

1814

PARTICLE-SIZE DISTRIBUTION CURVE FOR  
 PROJECT SAMPLE 28-W-SB41, ETL SAMPLE 9403X004-003  
 U. S. STANDARD SIEVE SIZES



1815

INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 28-GW01DW-01D

Laboratory ID: 940389-05

Date Sample Received: 5/09/94

Data Sampled: 5/07/94

---

| Target Analyte                     | Result | Units | Method Reporting Limit | Date Analyzed |
|------------------------------------|--------|-------|------------------------|---------------|
| Alkalinity (as CaCO <sub>3</sub> ) | 200    | mg/L  | 2.0                    | 5/10/94       |
| Biochemical Oxygen Demand (BOD)    | ND     | mg/L  | 2.0                    | 5/09/94       |
| Chemical Oxygen Demand (COD)       | 19.9   | mg/L  | 5.0                    | 5/23/94       |
| Chloride                           | 1,110  | mg/L  | 2.0                    | 5/11/94       |
| Fluoride                           | 0.52   | mg/L  | 0.10                   | 5/23/94       |
| Total Dissolved Solids (TDS)       | 2,490  | mg/L  | 5.0                    | 5/09/94       |
| Total Kjeldahl Nitrogen (TKN as N) | 1.04   | mg/L  | 0.20                   | 5/16/94       |
| Total Suspended Solids (TSS)       | 38.0   | mg/L  | 5.0                    | 5/09/94       |

---

ND = Not detected

INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 28-GW01-01

Laboratory ID: 940341-28

Date Sample Received: 4/26/94

Date Sampled: 4/25/94

---

| Target Analyte                     | Result | Units | Method Reporting Limit | Date Analyzed |
|------------------------------------|--------|-------|------------------------|---------------|
| Alkalinity (as CaCO <sub>3</sub> ) | 221    | mg/L  | 2.0                    | 5/03/94       |
| Biochemical Oxygen Demand (BOD)    | 12.1   | mg/L  | 2.0                    | 4/26/94       |
| Chemical Oxygen Demand (COD)       | 26.2   | mg/L  | 5.0                    | 5/03/94       |
| Chloride                           | 31.0   | mg/L  | 2.0                    | 5/03/94       |
| Fluoride                           | 0.25   | mg/L  | 0.10                   | 5/05/94       |
| Total Dissolved Solids (TDS)       | 334    | mg/L  | 5.0                    | 4/29/94       |
| Total Kjeldahl Nitrogen (TKN as N) | 3.08   | mg/L  | 0.20                   | 5/03/94       |
| Total Suspended Solids (TSS)       | 2,040  | mg/L  | 5.0                    | 4/29/94       |

---

**SITE 30**

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GEOTECHNICAL TESTING DATA AND RESULTS

940226-35

|              |                       |                     |          |                 |          |
|--------------|-----------------------|---------------------|----------|-----------------|----------|
| PROJECT      | Cemic Corporation     | PROJECT SAMPLE I.D. | 30-SB17  | PROJECT ANALYST | WB       |
| JOB NUMBER   | 9403X004              | ETL SAMPLE NUMBER   | 001      | QA/QC ANALYST   | RWF      |
| W. O. NUMBER | 05899-001-001-0012-00 | DATE RECEIVED       | 03/31/94 | DATE COMPLETED  | 04/08/94 |

| PARTICLE SIZE DISTRIBUTION |             |         |
|----------------------------|-------------|---------|
| U. S. Standard Sieve Size  | Diameter mm | % Finer |
| 3"                         | 75.00       | 100.0   |
| 1 1/2"                     | 37.50       | 100.0   |
| 3/4"                       | 19.00       | 100.0   |
| 3/8"                       | 9.500       | 100.0   |
| #4                         | 4.750       | 99.9    |
| #10                        | 2.000       | 99.9    |
| #20                        | 0.850       | 99.2    |
| #50                        | 0.300       | 89.5    |
| #100                       | 0.150       | 20.1    |
| #200                       | 0.075       | 3.7     |
| HYDROMETER                 | 0.0508      | 4.1     |
|                            | 0.0359      | 4.1     |
|                            | 0.0254      | 4.1     |
|                            | 0.0180      | 4.1     |
|                            | 0.0131      | 4.1     |
|                            | 0.0093      | 4.1     |
|                            | 0.0066      | 3.4     |
|                            | 0.0047      | 3.4     |
|                            | 0.0033      | 2.7     |
|                            | 0.0024      | 1.7     |
|                            | 0.0014      | 1.7     |
|                            | 0.0010      | 1.7     |

| EFFECTIVE SIZES        |                       |
|------------------------|-----------------------|
| % Finer                | Diameter mm           |
| 60                     | 0.236                 |
| 30                     | 0.171                 |
| 10                     | 0.104                 |
| Uniformity Coefficient | Gradation Coefficient |
| 2.3                    | 1.2                   |

| SAMPLE DESCRIPTION  |
|---|
| brown poorly graded SAND with 4% silt of low plasticity   |
| Unified Soil Classification System (USCS)<br>Group Symbol |
| SP  |

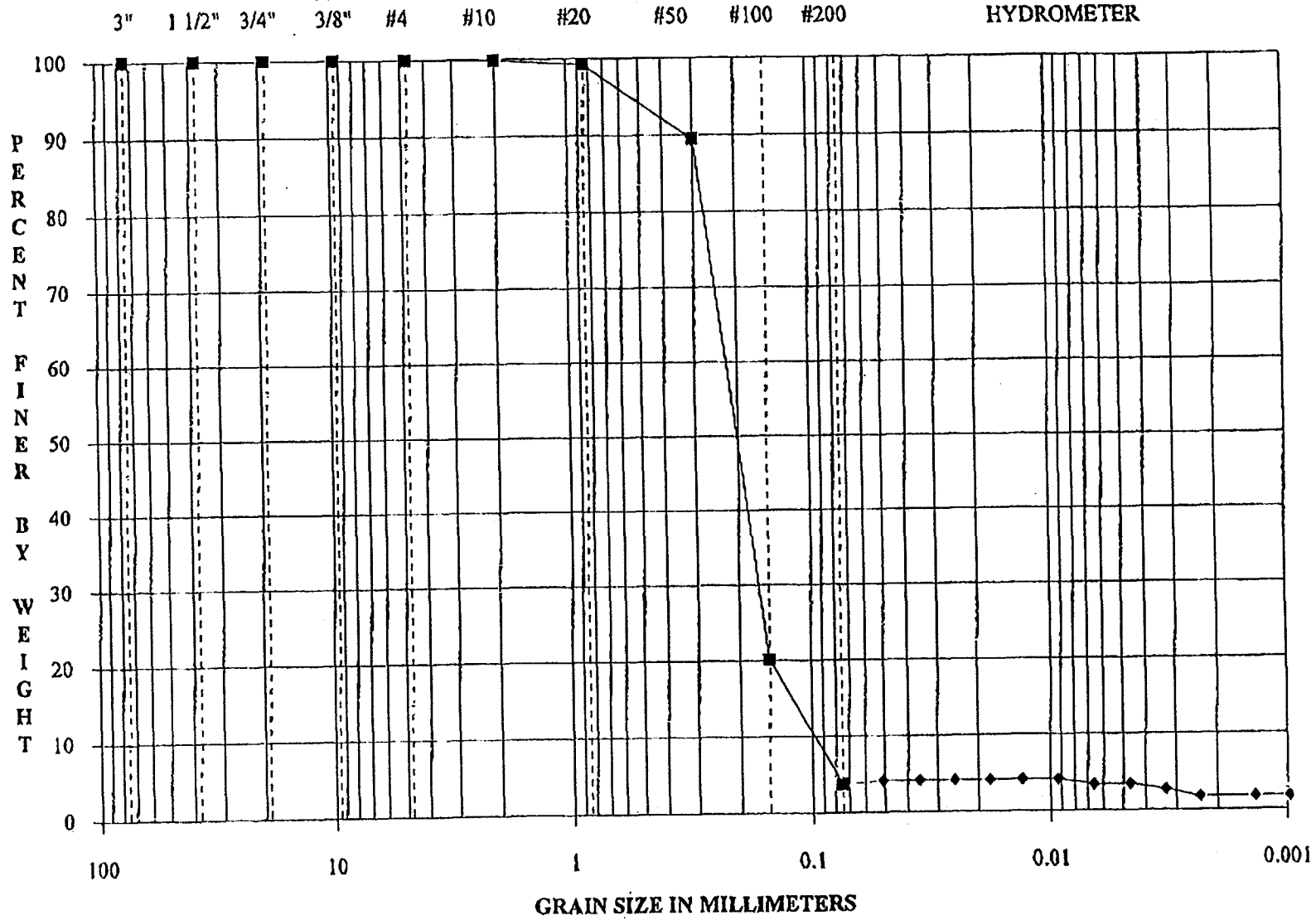
| INDEX PROPERTIES          |               |                  |
|---------------------------|---------------|------------------|
| % moisture dry basis      |               |                  |
| Liquid Limit              | Plastic Limit | Plasticity Index |
| non-cohesive, non-plastic |               |                  |

NOTES

1281

07-06-1994 09:54AM FROM CEMIC CORPORATION TO 14122696097 P.08  
 940226-35 1/30

PARTICLE-SIZE DISTRIBUTION CURVE FOR  
 PROJECT SAMPLE 30-SB17, ETL SAMPLE 9403X004-001  
 U. S. STANDARD SIEVE SIZES



## INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 30-GW01-01

Laboratory ID: 940334-09

Date Sample Received: 4/23/94

Date Sampled: 4/21/94

| Target Analyte                     | Result | Units | Method Reporting Limit | Date Analyzed |
|------------------------------------|--------|-------|------------------------|---------------|
| Alkalinity (as CaCO <sub>3</sub> ) | ND     | mg/L  | 2.0                    | 5/03/94       |
| Biochemical Oxygen Demand (BOD)    | ND     | mg/L  | 2.0                    | 4/25/94       |
| Chemical Oxygen Demand (COD)       | 96.4   | mg/L  | 5.0                    | 5/03/94       |
| Chloride                           | 7.3    | mg/L  | 2.0                    | 5/03/94       |
| Fluoride                           | ND     | mg/L  | 0.10                   | 5/05/94       |
| Total Dissolved Solids (TDS)       | 75.0   | mg/L  | 5.0                    | 4/27/94       |
| Total Kjeldahl Nitrogen (TKN as N) | 2.37   | mg/L  | 0.20                   | 5/03/94       |
| Total Suspended Solids (TSS)       | 657    | mg/L  | 5.0                    | 4/27/94       |

ND = Not detected

1116

**APPENDIX I**  
**QA/QC SUMMARY**

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SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 GC VOLATILES

| Client Sample ID:     | 1-GWER-01 | 1-GWER-02 | 1-TB-11   | 1-TB-15   | 1-TB-19   | 1-TB-20   |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940334-18 | 940341-01 | 940289-23 | 940334-33 | 940389-12 | 940405-02 |
| Date Sampled:         | 4/22/94   | 4/24/94   | 4/11/94   | 4/22/94   | 5/9/94    | 5/11/94   |

|                           | UNITS |     |     |     |     |     |     |
|---------------------------|-------|-----|-----|-----|-----|-----|-----|
| <b>VOLATILES</b>          |       |     |     |     |     |     |     |
| Chloromethane             | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Vinyl chloride            | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chloroethane              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Methylene chloride        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethene        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethane        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloroethene(total) | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chloroform                | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloroethane        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,1-Trichloroethane     | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Carbon tetrachloride      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromodichloromethane      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloropropane       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| cis-1,3-Dichloropropene   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Trichloroethene           | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Dibromochloromethane      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,2-Trichloroethane     | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Benzene                   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| trans-1,3-Dichloropropene | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2-Chloroethylvinylether   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 R | 2 R |
| Bromoform                 | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Tetrachloroethene         | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Toluene                   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chlorobenzene             | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Ethylbenzene              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Xylene (total)            | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,3-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,4-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Trichlorofluoromethane    | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 GC VOLATILES

| Client Sample ID:     | 28-GWER-01 | 28-GWER-02 | 28-GWER-03 | 28-TB-18  | 28-TB-18  | 28-TB-19  |
|-----------------------|------------|------------|------------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940320-15  | 940341-32  | 940389-13  | 940289-08 | 940320-17 | 940320-30 |
| Date Sampled:         | 4/20/94    | 4/25/94    | 5/8/94     | 4/8/94    | 4/20/94   | 4/21/94   |

|                           | UNITS |     |     |     |     |     |
|---------------------------|-------|-----|-----|-----|-----|-----|
| VOLATILES                 |       |     |     |     |     |     |
| Chloromethane             | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Vinyl chloride            | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chloroethane              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Methylene chloride        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethene        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethane        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloroethene(total) | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chloroform                | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloroethane        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,1-Trichloroethane     | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Carbon tetrachloride      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromodichloromethane      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloropropane       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| cis-1,3-Dichloropropene   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Trichloroethene           | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Dibromochloromethane      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,2-Trichloroethane     | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Benzene                   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| trans-1,3-Dichloropropene | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2-Chloroethylvinylether   | UG/L  | 2 U | 2 R | 2 R | 2 U | 2 U |
| Bromoform                 | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Tetrachloroethene         | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Toluene                   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chlorobenzene             | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Ethylbenzene              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Xylene (total)            | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,3-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,4-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |
| Trichlorofluoromethane    | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 GC VOLATILES

| Client Sample ID:     | 28-TB-20  | 28-TB-21  | 30-TB-04  | 4-TB-16   | 231FB03   | 231FB04   |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940341-34 | 940389-08 | 940334-17 | 940341-27 | 940341-35 | 940389-09 |
| Date Sampled:         | 4/25/94   | 5/7/94    | 4/21/94   | 4/24/94   | 4/26/94   | 5/7/94    |

|                           | UNITS |     |     |     |     |     |     |
|---------------------------|-------|-----|-----|-----|-----|-----|-----|
| <b>VOLATILES</b>          |       |     |     |     |     |     |     |
| Chloromethane             | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromomethane              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Vinyl chloride            | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chloroethane              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Methylene chloride        | UG/L  | 2 U | 2 U | 3 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethene        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1-Dichloroethane        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichloroethene(total) | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chloroform                | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 13  |
| 1,2-Dichloroethane        | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,1-Trichloroethane     | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Carbon tetrachloride      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Bromodichloromethane      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 6   |
| 1,2-Dichloropropane       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| cis-1,3-Dichloropropene   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Trichloroethene           | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Dibromochloromethane      | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 3   |
| 1,1,2-Trichloroethane     | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Benzene                   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| trans-1,3-Dichloropropene | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 2-Chloroethylvinylether   | UG/L  | 2 U | 2 R | 2 U | 2 R | 2 R | 2 R |
| Bromoform                 | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Tetrachloroethene         | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Toluene                   | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Chlorobenzene             | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Ethylbenzene              | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Xylene (total)            | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,3-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,4-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| 1,2-Dichlorobenzene       | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| Trichlorofluoromethane    | UG/L  | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 GC VOLATILES

| Client Sample ID:<br>Laboratory Sample ID:<br>Date Sampled: | MINIMUM<br>NONDETECTED | MAXIMUM<br>NONDETECTED | MINIMUM<br>DETECTED | MAXIMUM<br>DETECTED | LOCATION OF<br>MAXIMUM<br>DETECTED | FREQUENCY<br>OF<br>DETECTION |
|---|------------------------|------------------------|---------------------|---------------------|------------------------------------|------------------------------|
|   | <u>UNITS</u>           |                        |                     |                     |                                    |                              |
|   | <u>VOLATILES</u>       |                        |                     |                     |                                    |                              |
| Chloromethane   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Bromomethane  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Vinyl chloride  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Chloroethane  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Methylene chloride  | UG/L                   | 2 U                    | 3 U                 | ND                  | ND                                 | 0/18                         |
| 1,1-Dichloroethene  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 1,1-Dichloroethane  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 1,2-Dichloroethene(total)                                   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Chloroform  | UG/L                   | 2 U                    | 2 U                 | 13                  | 13                                 | 231FB04<br>1/18              |
| 1,2-Dichloroethane  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 1,1,1-Trichloroethane                                       | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Carbon tetrachloride  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Bromodichloromethane  | UG/L                   | 2 U                    | 2 U                 | 6                   | 6                                  | 231FB04<br>1/18              |
| 1,2-Dichloropropane   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| cis-1,3-Dichloropropene                                     | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Trichloroethene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Dibromochloromethane  | UG/L                   | 2 U                    | 2 U                 | 3                   | 3                                  | 231FB04<br>1/18              |
| 1,1,2-Trichloroethane                                       | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Benzene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| trans-1,3-Dichloropropene                                   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 2-Chloroethylvinylether                                     | UG/L                   | 2 U                    | 2 U                 | 2 R                 | 2 R                                | 231FB04<br>8/18              |
| Bromoform   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Tetrachloroethene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 1,1,2,2-Tetrachloroethane                                   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Toluene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Chlorobenzene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Ethylbenzene  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Xylene (total)  | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 1,3-Dichlorobenzene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 1,4-Dichlorobenzene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| 1,2-Dichlorobenzene   | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |
| Trichlorofluoromethane                                      | UG/L                   | 2 U                    | 2 U                 | ND                  | ND                                 | 0/18                         |



SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

| Client Sample ID:     | 1-SDER-01 | 1-SIER-01 | 1-SIER-02 | 1-SIER-03 | 1-SIER-06 | 1-SIER-08 |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940225-01 | 940225-13 | 940225-22 | 940272-02 | 940289-20 | 940289-32 |
| Date Sampled:         | 3/22/94   | 3/28/94   | 3/30/94   | 4/4/94    | 4/10/94   | 4/12/94   |

|                           | UNITS |      |      |      |      |      |      |
|---------------------------|-------|------|------|------|------|------|------|
| <b>VOLATILES</b>          |       |      |      |      |      |      |      |
| Chloromethane             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl chloride            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene chloride        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acetone                   | UG/L  | 10 U | 10   | 7 J  | 9 J  | 10   | 10   |
| Carbon Disulfide          | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroform                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Butanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Trichloroethene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibromochloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromoform                 | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene         | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Toluene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chlorobenzene             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Ethylbenzene              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Styrene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Xylenes (total)           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

| Client Sample ID:     | 1-TB-01   | 1-TB-02   | 1-TB-03   | 1-TB-03   | 1-TB-04   | 1-TB-05   |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940225-04 | 940225-08 | 940225-14 | 940225-14 | 940261-03 | 940261-04 |
| Date Sampled:         | 3/23/94   | 3/24/94   | 3/28/94   | 3/28/94   | 3/30/94   | 3/30/94   |

|                           | UNITS |      |      |      |      |      |      |
|---------------------------|-------|------|------|------|------|------|------|
| <b>VOLATILES</b>          |       |      |      |      |      |      |      |
| Chloromethane             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl chloride            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene chloride        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acetone                   | UG/L  | 22   | 17 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide          | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroform                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Butanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Trichloroethene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibromochloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromoform                 | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene         | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Toluene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chlorobenzene             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Ethylbenzene              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Styrene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Xylenes (total)           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

| Client Sample ID:     | 1-TB-05   | 1-TB-07   | 1-TB-08   | 1-TB-09   | 1-TB-10   | 1-TB-12   |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940225-23 | 940272-06 | 940280-24 | 940280-25 | 940289-22 | 940289-33 |
| Date Sampled:         | 3/30/94   | 4/5/94    | 4/6/94    | 4/6/94    | 4/11/94   | 4/12/94   |

|                           | UNITS |      |      |      |      |      |      |
|---------------------------|-------|------|------|------|------|------|------|
| <u>VOLATILES</u>          |       |      |      |      |      |      |      |
| Chloromethane             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl chloride            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene chloride        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acetone                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide          | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroform                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Butanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Trichloroethene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibromochloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromoform                 | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene         | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Toluene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chlorobenzene             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Ethylbenzene              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Styrene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Xylenes (total)           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

|                       |           |           |           |           |           |            |
|-----------------------|-----------|-----------|-----------|-----------|-----------|------------|
| Client Sample ID:     | 1-TB-13   | 1-TB-14   | 1-TB-17   | 1-TB-18   | 1-TB-21   | 28-SDER-01 |
| Laboratory Sample ID: | 940302-08 | 940320-10 | 940369-04 | 940389-03 | 940460-03 | 940246-36  |
| Date Sampled:         | 4/13/94   | 4/19/94   | 5/3/94    | 5/6/94    | 5/26/94   | 3/27/94    |

|                           | <u>UNITS</u> |      |      |      |       |      |      |
|---------------------------|--------------|------|------|------|-------|------|------|
| <u>VOLATILES</u>          |              |      |      |      |       |      |      |
| Chloromethane             | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Bromomethane              | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Vinyl chloride            | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Chloroethane              | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Methylene chloride        | UG/L         | 2 J  | 10 U | 10 U | 10 U  | 2 J  | 10 U |
| Acetone                   | UG/L         | 10 U | 10 U | 10 U | 10 UJ | 6 J  | 10 U |
| Carbon Disulfide          | UG/L         | 10 U | 2 J  | 10 U | 10 U  | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Chloroform                | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 2-Butanone                | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Carbon tetrachloride      | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Bromodichloromethane      | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Trichloroethene           | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Dibromochloromethane      | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Benzene                   | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Bromoform                 | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 2-Hexanone                | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Tetrachloroethene         | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Toluene                   | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Chlorobenzene             | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Ethylbenzene              | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Styrene                   | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |
| Xylenes (total)           | UG/L         | 10 U | 10 U | 10 U | 10 U  | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

|                       |            |            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|------------|------------|
| Client Sample ID:     | 28-SDER-02 | 28-SDER-03 | 28-SIER-01 | 28-SIER-02 | 28-SIER-03 | 28-SIER-05 |
| Laboratory Sample ID: | 940246-37  | 940250-07  | 940241-06  | 940241-07  | 940246-38  | 940281-09  |
| Date Sampled:         | 3/28/94    | 3/29/94    | 3/24/94    | 3/25/94    | 3/27/94    | 4/7/94     |

|                           | UNITS |      |      |      |      |      |      |
|---------------------------|-------|------|------|------|------|------|------|
| <b>VOLATILES</b>          |       |      |      |      |      |      |      |
| Chloromethane             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl chloride            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene chloride        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acetone                   | UG/L  | 10 U | 24   | 12   | 11   | 17   | 17   |
| Carbon Disulfide          | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroform                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Butanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Trichloroethene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibromochloromethane      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromoform                 | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene         | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Toluene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chlorobenzene             | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Ethylbenzene              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Styrene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Xylenes (total)           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

| Client Sample ID:     | 28-TB-02  | 28-TB-03  | 28-TB-04  | 28-TB-05  | 28-TB-06  | 28-TB-08  |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940241-09 | 940241-33 | 940241-17 | 940241-23 | 940250-26 | 940246-40 |
| Date Sampled:         | 3/25/94   | 3/25/94   | 3/26/94   | 3/26/94   | 3/26/94   | 3/28/94   |

|                           | UNITS |      |       |      |       |      |      |
|---------------------------|-------|------|-------|------|-------|------|------|
| <u>VOLATILES</u>          |       |      |       |      |       |      |      |
| Chloromethane             | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Bromomethane              | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Vinyl chloride            | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Chloroethane              | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Methylene chloride        | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Acetone                   | UG/L  | 10 U | 10 U  | 20 U | 10 U  | 10 U | 10 U |
| Carbon Disulfide          | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Chloroform                | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 2-Butanone                | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Carbon tetrachloride      | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Bromodichloromethane      | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Trichloroethene           | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Dibromochloromethane      | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Benzene                   | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Bromoform                 | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 2-Hexanone                | UG/L  | 10 U | 10 UJ | 10 U | 10 UJ | 10 U | 10 U |
| Tetrachloroethene         | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Toluene                   | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Chlorobenzene             | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Ethylbenzene              | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Styrene                   | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |
| Xylenes (total)           | UG/L  | 10 U | 10 U  | 10 U | 10 U  | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

| Client Sample ID:     | 28-TB-09  | 28-TB-10  | 28-TB-11  | 28-TB-12  | 28-TB-13  | 28-TB-14  |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940248-01 | 940248-02 | 940248-03 | 940248-38 | 940250-08 | 940250-09 |
| Date Sampled:         | 3/28/94   | 3/27/94   | 3/28/94   | 3/28/94   | 3/28/94   | 3/29/94   |

|                           | <u>UNITS</u> |      |      |      |      |      |      |
|---------------------------|--------------|------|------|------|------|------|------|
| <u>VOLATILES</u>          |              |      |      |      |      |      |      |
| Chloromethane             | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl chloride            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene chloride        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acetone                   | UG/L         | 10 U | 10 U | 22   | 10 U | 9 J  | 10 U |
| Carbon Disulfide          | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroform                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Butanone                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Trichloroethene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibromochloromethane      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene                   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromoform                 | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Toluene                   | UG/L         | 2 J  | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chlorobenzene             | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Ethylbenzene              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Styrene                   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Xylenes (total)           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

| Client Sample ID:     | 28-TB-15  | 28-TB-16  | 28-TB-17  | 28-TB-18  | 28-TB-19  | 30-SDER-01 |
|-----------------------|-----------|-----------|-----------|-----------|-----------|------------|
| Laboratory Sample ID: | 940250-30 | 940281-10 | 940289-07 | 940320-17 | 940320-30 | 940238-04  |
| Date Sampled:         | 3/30/94   | 4/7/94    | 4/8/94    | 4/20/94   | 4/21/94   | 3/24/94    |

|                           |      | <u>UNITS</u> |      |      |      |      |      |
|---------------------------|------|--------------|------|------|------|------|------|
| <u>VOLATILES</u>          |      |              |      |      |      |      |      |
| Chloromethane             | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane              | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl chloride            | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane              | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene chloride        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acetone                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide          | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethene        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene(total) | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroform                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethane        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Butanone                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane     | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichloropropane       | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| cis-1,3-Dichloropropene   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Trichloroethene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibromochloromethane      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane     | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromoform                 | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene         | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Toluene                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chlorobenzene             | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Ethylbenzene              | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Styrene                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Xylenes (total)           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |



SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

|                       |            |            |           |           |           |           |
|-----------------------|------------|------------|-----------|-----------|-----------|-----------|
| Client Sample ID:     | 30-SDER-02 | 30-SIER-01 | 30-TB-01  | 30-TB-02  | 30-TB-03  | 231FB01   |
| Laboratory Sample ID: | 940238-05  | 940226-26  | 940226-28 | 940226-40 | 940238-13 | 940261-05 |
| Date Sampled:         | 3/25/94    | 3/22/94    | 3/23/94   | 3/24/94   | 3/25/94   | 3/30/94   |

|                           |      | <u>UNITS</u> |      |      |      |       |      |
|---------------------------|------|--------------|------|------|------|-------|------|
| <u>VOLATILES</u>          |      |              |      |      |      |       |      |
| Chloromethane             | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Bromomethane              | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Vinyl chloride            | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Chloroethane              | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Methylene chloride        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Acetone                   | UG/L | 11 U         | 10   | 7 J  | 10 U | 16 U  | 17   |
| Carbon Disulfide          | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 1,1-Dichloroethene        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 1,1-Dichloroethane        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 1,2-Dichloroethene(total) | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Chloroform                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 1,2-Dichloroethane        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 2-Butanone                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 7 J  |
| 1,1,1-Trichloroethane     | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Carbon tetrachloride      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Bromodichloromethane      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 1,2-Dichloropropane       | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| cis-1,3-Dichloropropene   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Trichloroethene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Dibromochloromethane      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 1,1,2-Trichloroethane     | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Benzene                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| trans-1,3-Dichloropropene | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Bromoform                 | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 4-Methyl-2-pentanone      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 2-Hexanone                | UG/L | 10 UJ        | 10 U | 10 U | 10 U | 10 UJ | 10 U |
| Tetrachloroethene         | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Toluene                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Chlorobenzene             | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Ethylbenzene              | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Styrene                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Xylenes (total)           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U  | 10 U |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL VOLATILES

Client Sample ID: 231FB02  
Laboratory Sample ID: 940302-09  
Date Sampled: 4/13/94

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|                           | <u>UNITS</u> |      |
|---------------------------|--------------|------|
| <u>VOLATILES</u>          |              |      |
| Chloromethane             | UG/L         | 10 U |
| Bromomethane              | UG/L         | 10 U |
| Vinyl chloride            | UG/L         | 10 U |
| Chloroethane              | UG/L         | 10 U |
| Methylene chloride        | UG/L         | 2 J  |
| Acetone                   | UG/L         | 9 J  |
| Carbon Disulfide          | UG/L         | 10 U |
| 1,1-Dichloroethene        | UG/L         | 10 U |
| 1,1-Dichloroethane        | UG/L         | 10 U |
| 1,2-Dichloroethene(total) | UG/L         | 10 U |
| Chloroform                | UG/L         | 8 J  |
| 1,2-Dichloroethane        | UG/L         | 10 U |
| 2-Butanone                | UG/L         | 10 U |
| 1,1,1-Trichloroethane     | UG/L         | 10 U |
| Carbon tetrachloride      | UG/L         | 10 U |
| Bromodichloromethane      | UG/L         | 5 J  |
| 1,2-Dichloropropane       | UG/L         | 10 U |
| cis-1,3-Dichloropropene   | UG/L         | 10 U |
| Trichloroethene           | UG/L         | 10 U |
| Dibromochloromethane      | UG/L         | 3 J  |
| 1,1,2-Trichloroethane     | UG/L         | 10 U |
| Benzene                   | UG/L         | 10 U |
| trans-1,3-Dichloropropene | UG/L         | 10 U |
| Bromoform                 | UG/L         | 10 U |
| 4-Methyl-2-pentanone      | UG/L         | 10 U |
| 2-Hexanone                | UG/L         | 10 U |
| Tetrachloroethene         | UG/L         | 10 U |
| 1,1,2,2-Tetrachloroethane | UG/L         | 10 U |
| Toluene                   | UG/L         | 10 U |
| Chlorobenzene             | UG/L         | 10 U |
| Ethylbenzene              | UG/L         | 10 U |
| Styrene                   | UG/L         | 10 U |
| Xylenes (total)           | UG/L         | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

| Client Sample ID:         |              |             |             |          |          |             |           |
|---------------------------|--------------|-------------|-------------|----------|----------|-------------|-----------|
| Laboratory Sample ID:     |              | MINIMUM     | MAXIMUM     | MINIMUM  | MAXIMUM  | LOCATION OF | FREQUENCY |
| Date Sampled:             |              | NONDETECTED | NONDETECTED | DETECTED | DETECTED | MAXIMUM     | OF        |
|                           |              |             |             |          |          | DETECTED    | DETECTION |
|                           | <u>UNITS</u> |             |             |          |          |             |           |
| <u>VOLATILES</u>          |              |             |             |          |          |             |           |
| Chloromethane             | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Bromomethane              | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Vinyl chloride            | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Chloroethane              | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Methylene chloride        | UG/L         | 10 U        | 10 U        | 2 J      | 2 J      | 231FB02     | 3/55      |
| Acetone                   | UG/L         | 10 U        | 20 U        | 6 J      | 24       | 28-SDER-03  | 18/55     |
| Carbon Disulfide          | UG/L         | 10 U        | 10 U        | 2 J      | 2 J      | 1-TB-14     | 1/55      |
| 1,1-Dichloroethene        | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| 1,1-Dichloroethane        | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| 1,2-Dichloroethene(total) | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Chloroform                | UG/L         | 10 U        | 10 U        | 8 J      | 8 J      | 231FB02     | 1/55      |
| 1,2-Dichloroethane        | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| 2-Butanone                | UG/L         | 10 U        | 10 U        | 7 J      | 7 J      | 231FB01     | 1/55      |
| 1,1,1-Trichloroethane     | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Carbon tetrachloride      | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Bromodichloromethane      | UG/L         | 10 U        | 10 U        | 5 J      | 5 J      | 231FB02     | 1/55      |
| 1,2-Dichloropropane       | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| cis-1,3-Dichloropropene   | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Trichloroethene           | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Dibromochloromethane      | UG/L         | 10 U        | 10 U        | 3 J      | 3 J      | 231FB02     | 1/55      |
| 1,1,2-Trichloroethane     | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Benzene                   | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| trans-1,3-Dichloropropene | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Bromoform                 | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| 4-Methyl-2-pentanone      | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| 2-Hexanone                | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Tetrachloroethene         | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| 1,1,2,2-Tetrachloroethane | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Toluene                   | UG/L         | 10 U        | 10 U        | 2 J      | 2 J      | 28-TB-09    | 1/55      |
| Chlorobenzene             | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Ethylbenzene              | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Styrene                   | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |
| Xylenes (total)           | UG/L         | 10 U        | 10 U        | ND       | ND       |             | 0/55      |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

|                       |           |           |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Client Sample ID:     | 1-GWER-01 | 1-GWER-02 | 1-SDER-01 | 1-SIER-01 | 1-SIER-02 | 1-SIER-03 |
| Laboratory Sample ID: | 940334-18 | 940341-01 | 940225-01 | 940225-13 | 940225-22 | 940272-02 |
| Date Sampled:         | 4/22/94   | 4/24/94   | 3/22/94   | 3/28/94   | 3/30/94   | 4/4/94    |

|                               | <u>UNITS</u> |      |      |      |      |      |
|-------------------------------|--------------|------|------|------|------|------|
| <u>SEMIVOLATILES</u>          |              |      |      |      |      |      |
| Phenol                        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene                  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Isophorone                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethoxy) methane   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene                   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline               | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol         | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| 2-Chloronaphthalene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline                | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Dimethyl phthalate            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline                | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Acenaphthene                  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol             | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

|                       |           |           |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Client Sample ID:     | 1-GWER-01 | 1-GWER-02 | 1-SDER-01 | 1-SIER-01 | 1-SIER-02 | 1-SIER-03 |
| Laboratory Sample ID: | 940334-18 | 940341-01 | 940225-01 | 940225-13 | 940225-22 | 940272-02 |
| Date Sampled:         | 4/22/94   | 4/24/94   | 3/22/94   | 3/28/94   | 3/30/94   | 4/4/94    |

|                             | <u>UNITS</u> |      |      |      |      |      |
|-----------------------------|--------------|------|------|------|------|------|
| <u>SEMIVOLATILES Cont.</u>  |              |      |      |      |      |      |
| 4-Nitrophenol               | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Dibenzofuran                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene          | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Diethylphthalate            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Fluorene                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline              | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| N-nitrosodiphenylamine      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol           | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Phenanthrene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 1 J  |
| Anthracene                  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbazole                   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| di-n-Butylphthalate         | UG/L         | 10 U | 10 U | 10 U | 10 U | 1 J  |
| Fluoranthene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Pyrene                      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Butyl benzyl phthalate      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo[a]anthracene          | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chrysene                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 1 J  | 10 U | 10 U | 10 U | 1 J  |
| di-n-Octylphthalate         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo[b]fluoranthene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo[k]fluoranthene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo[a]pyrene              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibenz[a,h]anthracene       | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo[g,h,i]perylene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

|                       |           |           |            |            |            |            |
|-----------------------|-----------|-----------|------------|------------|------------|------------|
| Client Sample ID:     | 1-SIER-06 | 1-SIER-08 | 28-GWER-01 | 28-GWER-02 | 28-GWER-03 | 28-SDER-01 |
| Laboratory Sample ID: | 940289-20 | 940289-32 | 940320-15  | 940341-32  | 940389-13  | 940246-36  |
| Date Sampled:         | 4/10/94   | 4/12/94   | 4/20/94    | 4/25/94    | 5/8/94     | 3/27/94    |

|                               | <u>UNITS</u> |      |      |      |      |      |
|-------------------------------|--------------|------|------|------|------|------|
| <u>SEMIVOLATILES</u>          |              |      |      |      |      |      |
| Phenol                        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene                  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Isophorone                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethoxy) methane   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene                   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline               | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol         | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| 2-Chloronaphthalene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline                | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Dimethyl phthalate            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline                | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Acenaphthene                  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol             | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

|                       |           |           |            |            |            |            |
|-----------------------|-----------|-----------|------------|------------|------------|------------|
| Client Sample ID:     | 1-SIER-06 | 1-SIER-08 | 28-GWER-01 | 28-GWER-02 | 28-GWER-03 | 28-SDER-01 |
| Laboratory Sample ID: | 940289-20 | 940289-32 | 940320-15  | 940341-32  | 940389-13  | 940246-36  |
| Date Sampled:         | 4/10/94   | 4/12/94   | 4/20/94    | 4/25/94    | 5/8/94     | 3/27/94    |

|                             | <u>UNITS</u> |      |      |      |      |       |      |
|-----------------------------|--------------|------|------|------|------|-------|------|
| <u>SEMIVOLATILES Cont.</u>  |              |      |      |      |      |       |      |
| 4-Nitrophenol               | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U  | 25 U |
| Dibenzofuran                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 2,4-Dinitrotoluene          | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Diethylphthalate            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Fluorene                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 4-Nitroaniline              | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U  | 25 U |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U  | 25 U |
| N-nitrosodiphenylamine      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Hexachlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Pentachlorophenol           | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U  | 25 U |
| Phenanthrene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Anthracene                  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Carbazole                   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| di-n-Butylphthalate         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Fluoranthene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Pyrene                      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Butyl benzyl phthalate      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Benzo[a]anthracene          | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Chrysene                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 10 U | 10 U | 10 U | 10 U | 1 J   | 10 U |
| di-n-Octylphthalate         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U |
| Benzo[b]fluoranthene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Benzo[k]fluoranthene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Benzo[a]pyrene              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Dibenz[a,h]anthracene       | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |
| Benzo[g,h,i]perylene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

| Client Sample ID:     | 28-SDER-02 | 28-SDER-03 | 28-SIER-01 | 28-SIER-02 | 28-SIER-03 | 28-SIER-05 |
|-----------------------|------------|------------|------------|------------|------------|------------|
| Laboratory Sample ID: | 940246-37  | 940250-07  | 940241-06  | 940241-07  | 940246-38  | 940281-09  |
| Date Sampled:         | 3/28/94    | 3/29/94    | 3/24/94    | 3/25/94    | 3/27/94    | 4/7/94     |

|                               |      | <u>UNITS</u> |      |      |      |      |      |
|-------------------------------|------|--------------|------|------|------|------|------|
| <u>SEMIVOLATILES</u>          |      |              |      |      |      |      |      |
| Phenol                        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl) ether      | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-di-n-propylamine    | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane              | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene                  | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Isophorone                    | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol            | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroethoxy) methane   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol            | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene                   | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline               | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol         | UG/L | 25 U         | 25 U | 25 U | 25 U | 25 U | 25 U |
| 2-Chloronaphthalene           | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline                | UG/L | 25 U         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Dimethyl phthalate            | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene                | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline                | UG/L | 25 U         | 25 U | 25 U | 25 U | 25 U | 25 U |
| Acenaphthene                  | UG/L | 10 U         | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol             | UG/L | 25 U         | 25 U | 25 U | 25 U | 25 U | 25 U |



SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

| Client Sample ID:     | 28-SDER-02 | 28-SDER-03 | 28-SIER-01 | 28-SIER-02 | 28-SIER-03 | 28-SIER-05 |
|-----------------------|------------|------------|------------|------------|------------|------------|
| Laboratory Sample ID: | 940246-37  | 940250-07  | 940241-06  | 940241-07  | 940246-38  | 940281-09  |
| Date Sampled:         | 3/28/94    | 3/29/94    | 3/24/94    | 3/25/94    | 3/27/94    | 4/7/94     |

UNITS

| <u>SEMIVOLATILES Cont.</u>  | UG/L | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U  |
|-----------------------------|------|------|------|------|------|------|-------|
| 4-Nitrophenol               | UG/L | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U  |
| Dibenzofuran                | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| 2,4-Dinitrotoluene          | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Diethylphthalate            | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| 4-Chlorophenyl phenyl ether | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Fluorene                    | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| 4-Nitroaniline              | UG/L | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U  |
| 4,6-Dinitro-2-methylphenol  | UG/L | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U  |
| N-nitrosodiphenylamine      | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| 4-Bromophenyl-phenylether   | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Hexachlorobenzene           | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Pentachlorophenol           | UG/L | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U  |
| Phenanthrene                | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Anthracene                  | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Carbazole                   | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| di-n-Butylphthalate         | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Fluoranthene                | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Pyrene                      | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 UJ |
| Butyl benzyl phthalate      | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| 3,3'-Dichlorobenzidine      | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 UJ |
| Benzo[a]anthracene          | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Chrysene                    | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| bis(2-Ethylhexyl)phthalate  | UG/L | 10 U | 1 J  | 10 U | 10 U | 10 U | 10 U  |
| di-n-Octylphthalate         | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Benzo[b]fluoranthene        | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Benzo[k]fluoranthene        | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Benzo[a]pyrene              | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Indeno[1,2,3-cd]pyrene      | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Dibenz[a,h]anthracene       | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |
| Benzo[g,h,i]perylene        | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U  |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

| Client Sample ID:     | 30-SDER-01 | 30-SDER-02 | 30-SIER-01 | 231FB01   | 231FB02   | 231FB03   |
|-----------------------|------------|------------|------------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940238-04  | 940238-05  | 940226-26  | 940261-05 | 940302-09 | 940341-35 |
| Date Sampled:         | 3/24/94    | 3/25/94    | 3/22/94    | 3/30/94   | 4/13/94   | 4/26/94   |

|                               | UNITS |      |      |      |      |      |      |
|-------------------------------|-------|------|------|------|------|------|------|
| SEMIVOLATILES                 |       |      |      |      |      |      |      |
| Phenol                        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| bis(2-Chloroethyl) ether      | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| 1,3-Dichlorobenzene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| N-Nitroso-di-n-propylamine    | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| Hexachloroethane              | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene                  | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Isophorone                    | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol                 | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| 2,4-Dimethylphenol            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| bis(2-Chloroethoxy) methane   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Naphthalene                   | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline               | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol       | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| 2-Methylnaphthalene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene     | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol         | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 R | 10 U |
| 2,4,5-Trichlorophenol         | UG/L  | 25 U | 25 U | 25 U | 25 U | 25 R | 25 U |
| 2-Chloronaphthalene           | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline                | UG/L  | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U |
| Dimethyl phthalate            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene                | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene            | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline                | UG/L  | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U |
| Acenaphthene                  | UG/L  | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol             | UG/L  | 25 U | 25 U | 25 U | 25 U | 25 R | 25 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

|                       |            |            |            |           |           |           |
|-----------------------|------------|------------|------------|-----------|-----------|-----------|
| Client Sample ID:     | 30-SDER-01 | 30-SDER-02 | 30-SIER-01 | 231FB01   | 231FB02   | 231FB03   |
| Laboratory Sample ID: | 940238-04  | 940238-05  | 940226-26  | 940261-05 | 940302-09 | 940341-35 |
| Date Sampled:         | 3/24/94    | 3/25/94    | 3/22/94    | 3/30/94   | 4/13/94   | 4/26/94   |

|                             | <u>UNITS</u> |      |      |      |      |       |       |
|-----------------------------|--------------|------|------|------|------|-------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |      |      |      |      |       |       |
| 4-Nitrophenol               | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 R  | 25 U  |
| Dibenzofuran                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| 2,4-Dinitrotoluene          | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Diethylphthalate            | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 R  | 10 U  |
| Fluorene                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| 4-Nitroaniline              | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 U  | 25 U  |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 R  | 25 U  |
| N-nitrosodiphenylamine      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 R  | 10 U  |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 R  | 10 U  |
| Hexachlorobenzene           | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Pentachlorophenol           | UG/L         | 25 U | 25 U | 25 U | 25 U | 25 R  | 25 U  |
| Phenanthrene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Anthracene                  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Carbazole                   | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| di-n-Butylphthalate         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Fluoranthene                | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Pyrene                      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Butyl benzyl phthalate      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 UJ |
| Benzo[a]anthracene          | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| Chrysene                    | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 U  | 10 U  |
| di-n-Octylphthalate         | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U  |
| Benzo[b]fluoranthene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U  |
| Benzo[k]fluoranthene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U  |
| Benzo[a]pyrene              | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U  |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U  |
| Dibenz[a,h]anthracene       | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U  |
| Benzo[g,h,i]perylene        | UG/L         | 10 U | 10 U | 10 U | 10 U | 10 UJ | 10 U  |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

Client Sample ID: 231FB04  
 Laboratory Sample ID: 940389-09  
 Date Sampled: 5/7/94

| SEMIVOLATILES                 | UNITS |      |
|-------------------------------|-------|------|
| Phenol                        | UG/L  | 10 U |
| bis(2-Chloroethyl) ether      | UG/L  | 10 U |
| 2-Chlorophenol                | UG/L  | 10 U |
| 1,3-Dichlorobenzene           | UG/L  | 10 U |
| 1,4-Dichlorobenzene           | UG/L  | 10 U |
| 1,2-Dichlorobenzene           | UG/L  | 10 U |
| 2-Methylphenol                | UG/L  | 10 U |
| 2,2'-oxybis-(1-chloropropane) | UG/L  | 10 U |
| 4-Methylphenol                | UG/L  | 10 U |
| N-Nitroso-di-n-propylamine    | UG/L  | 10 U |
| Hexachloroethane              | UG/L  | 10 U |
| Nitrobenzene                  | UG/L  | 10 U |
| Isophorone                    | UG/L  | 10 U |
| 2-Nitrophenol                 | UG/L  | 10 U |
| 2,4-Dimethylphenol            | UG/L  | 10 U |
| bis(2-Chloroethoxy) methane   | UG/L  | 10 U |
| 2,4-Dichlorophenol            | UG/L  | 10 U |
| 1,2,4-Trichlorobenzene        | UG/L  | 10 U |
| Naphthalene                   | UG/L  | 10 U |
| 4-Chloroaniline               | UG/L  | 10 U |
| Hexachlorobutadiene           | UG/L  | 10 U |
| 4-Chloro-3-methylphenol       | UG/L  | 10 U |
| 2-Methylnaphthalene           | UG/L  | 10 U |
| Hexachlorocyclopentadiene     | UG/L  | 10 U |
| 2,4,6-Trichlorophenol         | UG/L  | 10 U |
| 2,4,5-Trichlorophenol         | UG/L  | 25 U |
| 2-Chloronaphthalene           | UG/L  | 10 U |
| 2-Nitroaniline                | UG/L  | 25 U |
| Dimethyl phthalate            | UG/L  | 10 U |
| Acenaphthylene                | UG/L  | 10 U |
| 2,6-Dinitrotoluene            | UG/L  | 10 U |
| 3-Nitroaniline                | UG/L  | 25 U |
| Acenaphthene                  | UG/L  | 10 U |
| 2,4-Dinitrophenol             | UG/L  | 25 U |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL SEMIVOLATILES

Client Sample ID: 231FB04  
Laboratory Sample ID: 940389-09  
Date Sampled: 5/7/94

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|                             | <u>UNITS</u> |       |
|-----------------------------|--------------|-------|
| <u>SEMIVOLATILES Cont.</u>  |              |       |
| 4-Nitrophenol               | UG/L         | 25 UJ |
| Dibenzofuran                | UG/L         | 10 U  |
| 2,4-Dinitrotoluene          | UG/L         | 10 U  |
| Diethylphthalate            | UG/L         | 10 U  |
| 4-Chlorophenyl phenyl ether | UG/L         | 10 U  |
| Fluorene                    | UG/L         | 10 U  |
| 4-Nitroaniline              | UG/L         | 25 U  |
| 4,6-Dinitro-2-methylphenol  | UG/L         | 25 U  |
| N-nitrosodiphenylamine      | UG/L         | 10 U  |
| 4-Bromophenyl-phenylether   | UG/L         | 10 U  |
| Hexachlorobenzene           | UG/L         | 10 U  |
| Pentachlorophenol           | UG/L         | 25 U  |
| Phenanthrene                | UG/L         | 10 U  |
| Anthracene                  | UG/L         | 10 U  |
| Carbazole                   | UG/L         | 10 U  |
| di-n-Butylphthalate         | UG/L         | 10 U  |
| Fluoranthene                | UG/L         | 10 U  |
| Pyrene                      | UG/L         | 10 UJ |
| Butyl benzyl phthalate      | UG/L         | 10 UJ |
| 3,3'-Dichlorobenzidine      | UG/L         | 10 UJ |
| Benzo[a]anthracene          | UG/L         | 10 UJ |
| Chrysene                    | UG/L         | 10 UJ |
| bis(2-Ethylhexyl)phthalate  | UG/L         | 10 UJ |
| di-n-Octylphthalate         | UG/L         | 10 U  |
| Benzo[b]fluoranthene        | UG/L         | 10 U  |
| Benzo[k]fluoranthene        | UG/L         | 10 U  |
| Benzo[a]pyrene              | UG/L         | 10 U  |
| Indeno[1,2,3-cd]pyrene      | UG/L         | 10 U  |
| Dibenz[a,h]anthracene       | UG/L         | 10 U  |
| Benzo[g,h,i]perylene        | UG/L         | 10 U  |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

| Client Sample ID:<br>Laboratory Sample ID:<br>Date Sampled: | MINIMUM<br>NONDETECTED | MAXIMUM<br>NONDETECTED | MINIMUM<br>DETECTED | MAXIMUM<br>DETECTED | LOCATION OF<br>MAXIMUM<br>DETECTED | FREQUENCY<br>OF<br>DETECTION |
|---|------------------------|------------------------|---------------------|---------------------|------------------------------------|------------------------------|
|   | <u>UNITS</u>           |                        |                     |                     |                                    |                              |
| <u>SEMIVOLATILES</u>  |                        |                        |                     |                     |                                    |                              |
| Phenol  | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| bis(2-Chloroethyl) ether                                    | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2-Chlorophenol  | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| 1,3-Dichlorobenzene   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 1,4-Dichlorobenzene   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 1,2-Dichlorobenzene   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2-Methylphenol  | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| 2,2'-oxybis-(1-chloropropane)                               | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 4-Methylphenol  | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| N-Nitroso-di-n-propylamine                                  | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| Hexachloroethane  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| Nitrobenzene  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| Isophorone  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2-Nitrophenol   | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| 2,4-Dimethylphenol  | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| bis(2-Chloroethoxy) methane                                 | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2,4-Dichlorophenol  | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| 1,2,4-Trichlorobenzene                                      | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| Naphthalene   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 4-Chloroaniline   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| Hexachlorobutadiene   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 4-Chloro-3-methylphenol                                     | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| 2-Methylnaphthalene   | UG/L                   | 10 U                   | 10 U                | 3.2 J               | 3.2 J                              | 1-SIER-02 1/25               |
| Hexachlorocyclopentadiene                                   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2,4,6-Trichlorophenol                                       | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02 1/25                 |
| 2,4,5-Trichlorophenol                                       | UG/L                   | 25 U                   | 25 U                | 25 R                | 25 R                               | 231FB02 1/25                 |
| 2-Chloronaphthalene   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2-Nitroaniline  | UG/L                   | 25 U                   | 25 U                | ND                  | ND                                 | 0/25                         |
| Dimethyl phthalate  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| Acenaphthylene  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2,6-Dinitrotoluene  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 3-Nitroaniline  | UG/L                   | 25 U                   | 25 U                | ND                  | ND                                 | 0/25                         |
| Acenaphthene  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 | 0/25                         |
| 2,4-Dinitrophenol   | UG/L                   | 25 U                   | 25 U                | 25 R                | 25 R                               | 231FB02 1/25                 |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL SEMIVOLATILES

| Client Sample ID:<br>Laboratory Sample ID:<br>Date Sampled: |                             | MINIMUM<br>NONDETECTED | MAXIMUM<br>NONDETECTED | MINIMUM<br>DETECTED | MAXIMUM<br>DETECTED | LOCATION OF<br>MAXIMUM<br>DETECTED | FREQUENCY<br>OF<br>DETECTION |      |
|---|-----------------------------|------------------------|------------------------|---------------------|---------------------|------------------------------------|------------------------------|------|
|   | <u>UNITS</u>                |                        |                        |                     |                     |                                    |                              |      |
|   | <u>SEMIVOLATILES Cont.</u>  |                        |                        |                     |                     |                                    |                              |      |
|   | 4-Nitrophenol               | UG/L                   | 25 U                   | 25 U                | 25 R                | 25 R                               | 231FB02                      | 1/25 |
|   | Dibenzofuran                | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | 2,4-Dinitrotoluene          | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Diethylphthalate            | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | 4-Chlorophenyl phenyl ether | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02                      | 1/25 |
|   | Fluorene                    | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | 4-Nitroaniline              | UG/L                   | 25 U                   | 25 U                | ND                  | ND                                 |                              | 0/25 |
|   | 4,6-Dinitro-2-methylphenol  | UG/L                   | 25 U                   | 25 U                | 25 R                | 25 R                               | 231FB02                      | 1/25 |
|   | N-nitrosodiphenylamine      | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02                      | 1/25 |
|   | 4-Bromophenyl-phenylether   | UG/L                   | 10 U                   | 10 U                | 10 R                | 10 R                               | 231FB02                      | 1/25 |
|   | Hexachlorobenzene           | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Pentachlorophenol           | UG/L                   | 25 U                   | 25 U                | 25 R                | 25 R                               | 231FB02                      | 1/25 |
|   | Phenanthrene                | UG/L                   | 10 U                   | 10 U                | 1.4 J               | 1.4 J                              | 1-SIER-02                    | 1/25 |
|   | Anthracene                  | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Carbazole                   | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | di-n-Butylphthalate         | UG/L                   | 10 U                   | 10 U                | 1.2 J               | 1.2 J                              | 1-SIER-03                    | 1/25 |
|   | Fluoranthene                | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Pyrene                      | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Butyl benzyl phthalate      | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | 3,3'-Dichlorobenzidine      | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Benzo[a]anthracene          | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Chrysene                    | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | bis(2-Ethylhexyl)phthalate  | UG/L                   | 10 U                   | 10 U                | 1 J                 | 1.4 J                              | 28-GWER-03                   | 4/25 |
|   | di-n-Octylphthalate         | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Benzo[b]fluoranthene        | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Benzo[k]fluoranthene        | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Benzo[a]pyrene              | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Indeno[1,2,3-cd]pyrene      | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Dibenz[a,h]anthracene       | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |
|   | Benzo[g,h,i]perylene        | UG/L                   | 10 U                   | 10 U                | ND                  | ND                                 |                              | 0/25 |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL PESTICIDES/PCBs

| Client Sample ID:     | 1-SDER-01 | 1-SIER-01 | 1-SIER-02 | 1-SIER-03 | 1-SIER-06 | 1-SIER-08 |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940225-01 | 940225-13 | 940225-22 | 940272-02 | 940289-20 | 940289-32 |
| Date Sampled:         | 3/22/94   | 3/28/94   | 3/30/94   | 4/4/94    | 4/10/94   | 4/12/94   |

|                     | UNITS |         |        |        |        |        |        |
|---------------------|-------|---------|--------|--------|--------|--------|--------|
| PESTICIDE/PCBs      |       |         |        |        |        |        |        |
| alpha-BHC           | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| beta-BHC            | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| delta-BHC           | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Lindane (gamma-BHC) | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor          | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Aldrin              | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Heptachlor epoxide  | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Endosulfan I        | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Dieldrin            | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| 4,4'-DDE            | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| Endrin              | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| Endosulfan II       | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| 4,4'-DDD            | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| Endosulfan sulfate  | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| 4,4'-DDT            | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| Methoxychlor        | UG/L  | 0.50 UJ | 0.50 U | 0.50 U | 0.5 U  | 0.50 U | 0.50 U |
| Endrin ketone       | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| Endrin aldehyde     | UG/L  | 0.10 UJ | 0.10 U | 0.10 U | 0.1 U  | 0.10 U | 0.10 U |
| alpha-Chlordane     | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| gamma-Chlordane     | UG/L  | 0.05 UJ | 0.05 U | 0.05 U | 0.05 U | 0.05 U | 0.05 U |
| Toxaphene           | UG/L  | 5.0 UJ  | 5.0 U  | 5.0 U  | 5 U    | 5.0 U  | 5.0 U  |
| Aroclor 1016        | UG/L  | 1.0 UJ  | 1.0 U  | 1.0 U  | 1 U    | 1.0 U  | 1.0 U  |
| Aroclor 1221        | UG/L  | 2.0 UJ  | 2.0 U  | 2.0 U  | 2 U    | 2.0 U  | 2.0 U  |
| Aroclor 1232        | UG/L  | 1.0 UJ  | 1.0 U  | 1.0 U  | 1 U    | 1.0 U  | 1.0 U  |
| Aroclor 1242        | UG/L  | 1.0 UJ  | 1.0 U  | 1.0 U  | 1 U    | 1.0 U  | 1.0 U  |
| Aroclor 1248        | UG/L  | 1.0 UJ  | 1.0 U  | 1.0 U  | 1 U    | 1.0 U  | 1.0 U  |
| Aroclor 1254        | UG/L  | 1.0 UJ  | 1.0 U  | 1.0 U  | 1 U    | 1.0 U  | 1.0 U  |
| Aroclor 1260        | UG/L  | 1.0 UJ  | 1.0 U  | 1.0 U  | 1 U    | 1.0 U  | 1.0 U  |



SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL PESTICIDES/PCBs

|                       |            |            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|------------|------------|
| Client Sample ID:     | 28-GWER-01 | 28-GWER-02 | 28-GWER-03 | 28-SDER-01 | 28-SDER-03 | 28-SIER-01 |
| Laboratory Sample ID: | 940320-15  | 940341-32  | 940389-13  | 940246-36  | 940250-07  | 940241-06  |
| Date Sampled:         | 4/20/94    | 4/25/94    | 5/8/94     | 3/27/94    | 3/29/94    | 3/24/94    |

| PESTICIDE/PCBs      | UNITS | 28-GWER-01 | 28-GWER-02 | 28-GWER-03 | 28-SDER-01 | 28-SDER-03 | 28-SIER-01 |
|---------------------|-------|------------|------------|------------|------------|------------|------------|
| alpha-BHC           | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| beta-BHC            | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| delta-BHC           | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| Lindane (gamma-BHC) | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| Heptachlor          | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| Aldrin              | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| Heptachlor epoxide  | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| Endosulfan I        | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| Dieldrin            | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| 4,4'-DDE            | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| Endrin              | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| Endosulfan II       | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| 4,4'-DDD            | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| Endosulfan sulfate  | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| 4,4'-DDT            | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| Methoxychlor        | UG/L  | 0.50 R     | 0.50 U     | 0.50 UJ    | 0.50 U     | 0.50 U     | 0.50 U     |
| Endrin ketone       | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| Endrin aldehyde     | UG/L  | 0.10 R     | 0.10 U     | 0.10 UJ    | 0.10 U     | 0.10 U     | 0.10 U     |
| alpha-Chlordane     | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| gamma-Chlordane     | UG/L  | 0.05 R     | 0.05 U     | 0.05 UJ    | 0.05 U     | 0.05 U     | 0.05 U     |
| Toxaphene           | UG/L  | 5.0 R      | 5.0 U      | 5.0 UJ     | 5.0 U      | 5.0 U      | 5.0 U      |
| Aroclor 1016        | UG/L  | 1.0 R      | 1.0 U      | 1.0 UJ     | 1.0 U      | 1.0 U      | 1.0 U      |
| Aroclor 1221        | UG/L  | 2.0 R      | 2.0 U      | 2.0 UJ     | 2.0 U      | 2.0 U      | 2.0 U      |
| Aroclor 1232        | UG/L  | 1.0 R      | 1.0 U      | 1.0 UJ     | 1.0 U      | 1.0 U      | 1.0 U      |
| Aroclor 1242        | UG/L  | 1.0 R      | 1.0 U      | 1.0 UJ     | 1.0 U      | 1.0 U      | 1.0 U      |
| Aroclor 1248        | UG/L  | 1.0 R      | 1.0 U      | 1.0 UJ     | 1.0 U      | 1.0 U      | 1.0 U      |
| Aroclor 1254        | UG/L  | 1.0 R      | 1.0 U      | 1.0 UJ     | 1.0 U      | 1.0 U      | 1.0 U      |
| Aroclor 1260        | UG/L  | 1.0 R      | 1.0 U      | 1.0 UJ     | 1.0 U      | 1.0 U      | 1.0 U      |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL PESTICIDES/PCBs

| Client Sample ID:     | 28-SIER-02 | 28-SIER-03 | 28-SIER-05 | 231FB01   | 231FB02   | 231FB03   |
|-----------------------|------------|------------|------------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940241-07  | 940246-38  | 940281-09  | 940261-05 | 940302-09 | 940341-35 |
| Date Sampled:         | 3/25/94    | 3/27/94    | 4/7/94     | 3/30/94   | 4/13/94   | 4/26/94   |

| PESTICIDE/PCBs      | UNITS | 28-SIER-02 | 28-SIER-03 | 28-SIER-05 | 231FB01 | 231FB02 | 231FB03 |
|---------------------|-------|------------|------------|------------|---------|---------|---------|
| alpha-BHC           | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 UJ | 0.05 U  |
| beta-BHC            | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| delta-BHC           | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| Lindane (gamma-BHC) | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 UJ | 0.05 U  |
| Heptachlor          | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| Aldrin              | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| Heptachlor epoxide  | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| Endosulfan I        | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| Dieldrin            | UG/L  | 0.10 U     | 0.10 U     | 0.05 UJ    | 0.10 U  | 0.10 U  | 0.10 U  |
| 4,4'-DDE            | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| Endrin              | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| Endosulfan II       | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| 4,4'-DDD            | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| Endosulfan sulfate  | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| 4,4'-DDT            | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| Methoxychlor        | UG/L  | 0.50 U     | 0.50 U     | 0.5 UJ     | 0.50 U  | 0.50 U  | 0.50 U  |
| Endrin ketone       | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| Endrin aldehyde     | UG/L  | 0.10 U     | 0.10 U     | 0.1 UJ     | 0.10 U  | 0.10 U  | 0.10 U  |
| alpha-Chlordane     | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| gamma-Chlordane     | UG/L  | 0.05 U     | 0.05 U     | 0.05 UJ    | 0.05 U  | 0.05 U  | 0.05 U  |
| Toxaphene           | UG/L  | 5.0 U      | 5.0 U      | 5 UJ       | 5.0 U   | 5.0 U   | 5.0 U   |
| Aroclor 1016        | UG/L  | 1.0 U      | 1.0 U      | 1 UJ       | 1.0 U   | 1.0 U   | 1.0 U   |
| Aroclor 1221        | UG/L  | 2.0 U      | 2.0 U      | 2 UJ       | 2.0 U   | 2.0 U   | 2.0 U   |
| Aroclor 1232        | UG/L  | 1.0 U      | 1.0 U      | 1 UJ       | 1.0 U   | 1.0 U   | 1.0 U   |
| Aroclor 1242        | UG/L  | 1.0 U      | 1.0 U      | 1 UJ       | 1.0 U   | 1.0 U   | 1.0 U   |
| Aroclor 1248        | UG/L  | 1.0 U      | 1.0 U      | 1 UJ       | 1.0 U   | 1.0 U   | 1.0 U   |
| Aroclor 1254        | UG/L  | 1.0 U      | 1.0 U      | 1 UJ       | 1.0 U   | 1.0 U   | 1.0 U   |
| Aroclor 1260        | UG/L  | 1.0 U      | 1.0 U      | 1 UJ       | 1.0 U   | 1.0 U   | 1.0 U   |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TCL PESTICIDES/PCBs

Client Sample ID: 231FB04  
Laboratory Sample ID: 940389-09  
Date Sampled: 5/7/94

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|                       | UNITS |        |
|-----------------------|-------|--------|
| <u>PESTICIDE/PCBs</u> |       |        |
| alpha-BHC             | UG/L  | 0.05 R |
| beta-BHC              | UG/L  | 0.05 R |
| delta-BHC             | UG/L  | 0.05 R |
| Lindane (gamma-BHC)   | UG/L  | 0.05 R |
| Heptachlor            | UG/L  | 0.05 R |
| Aldrin                | UG/L  | 0.05 R |
| Heptachlor epoxide    | UG/L  | 0.05 R |
| Endosulfan I          | UG/L  | 0.05 R |
| Dieldrin              | UG/L  | 0.10 R |
| 4,4'-DDE              | UG/L  | 0.10 R |
| Endrin                | UG/L  | 0.10 R |
| Endosulfan II         | UG/L  | 0.10 R |
| 4,4'-DDD              | UG/L  | 0.10 R |
| Endosulfan sulfate    | UG/L  | 0.10 R |
| 4,4'-DDT              | UG/L  | 0.10 R |
| Methoxychlor          | UG/L  | 0.50 R |
| Endrin ketone         | UG/L  | 0.10 R |
| Endrin aldehyde       | UG/L  | 0.10 R |
| alpha-Chlordane       | UG/L  | 0.05 R |
| gamma-Chlordane       | UG/L  | 0.05 R |
| Toxaphene             | UG/L  | 5.0 R  |
| Aroclor 1016          | UG/L  | 1.0 R  |
| Aroclor 1221          | UG/L  | 2.0 R  |
| Aroclor 1232          | UG/L  | 1.0 R  |
| Aroclor 1242          | UG/L  | 1.0 R  |
| Aroclor 1248          | UG/L  | 1.0 R  |
| Aroclor 1254          | UG/L  | 1.0 R  |
| Aroclor 1260          | UG/L  | 1.0 R  |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TCL PESTICIDES/PCBs

| Client Sample ID:<br>Laboratory Sample ID:<br>Date Sampled: | MINIMUM<br>NONDETECTED | MAXIMUM<br>NONDETECTED | MINIMUM<br>DETECTED | MAXIMUM<br>DETECTED | LOCATION OF<br>MAXIMUM<br>DETECTED | FREQUENCY<br>OF<br>DETECTION |
|---|------------------------|------------------------|---------------------|---------------------|------------------------------------|------------------------------|
|   | <u>UNITS</u>           |                        |                     |                     |                                    |                              |
|   | <u>PESTICIDE/PCBs</u>  |                        |                     |                     |                                    |                              |
| alpha-BHC   | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| beta-BHC  | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| delta-BHC   | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| Lindane (gamma-BHC)   | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| Heptachlor  | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| Aldrin  | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| Heptachlor epoxide  | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| Endosulfan I  | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| Dieldrin  | UG/L                   | 0.05 UJ                | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| 4,4'-DDE  | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| Endrin  | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| Endosulfan II   | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| 4,4'-DDD  | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| Endosulfan sulfate  | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| 4,4'-DDT  | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| Methoxychlor  | UG/L                   | 0.5 UJ                 | 0.5 UJ              | 0.5 R               | 0.5 R                              | 231FB04 2/19                 |
| Endrin ketone   | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| Endrin aldehyde   | UG/L                   | 0.1 UJ                 | 0.1 UJ              | 0.1 R               | 0.1 R                              | 231FB04 2/19                 |
| alpha-Chlordane   | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| gamma-Chlordane   | UG/L                   | 0.05 UJ                | 0.05 UJ             | 0.05 R              | 0.05 R                             | 231FB04 2/19                 |
| Toxaphene   | UG/L                   | 5 UJ                   | 5 UJ                | 5 R                 | 5 R                                | 231FB04 2/19                 |
| Aroclor 1016  | UG/L                   | 1 UJ                   | 1 UJ                | 1 R                 | 1 R                                | 231FB04 2/19                 |
| Aroclor 1221  | UG/L                   | 2 UJ                   | 2 UJ                | 2 R                 | 2 R                                | 231FB04 2/19                 |
| Aroclor 1232  | UG/L                   | 1 UJ                   | 1 UJ                | 1 R                 | 1 R                                | 231FB04 2/19                 |
| Aroclor 1242  | UG/L                   | 1 UJ                   | 1 UJ                | 1 R                 | 1 R                                | 231FB04 2/19                 |
| Aroclor 1248  | UG/L                   | 1 UJ                   | 1 UJ                | 1 R                 | 1 R                                | 231FB04 2/19                 |
| Aroclor 1254  | UG/L                   | 1 UJ                   | 1 UJ                | 1 R                 | 1 R                                | 231FB04 2/19                 |
| Aroclor 1260  | UG/L                   | 1 UJ                   | 1 UJ                | 1 R                 | 1 R                                | 231FB04 2/19                 |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 1-GWER-01 | 1-GWER-02 | 1-SDER-01 | 1-SIER-01 | 1-SIER-02 | 1-SIER-03 |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Laboratory Sample ID: | 940334-18 | 940341-01 | 940225-01 | 940225-13 | 940225-22 | 940272-02 |
| Date Sampled:         | 4/22/94   | 4/24/94   | 3/22/94   | 3/28/94   | 3/30/94   | 4/4/94    |

|           | UNITS |        |         |        |        |         |        |
|-----------|-------|--------|---------|--------|--------|---------|--------|
| Aluminum  | UG/L  | 33.0 U | 33.0 UJ | 33.0 U | 55.9 U | 33.0 U  | 77.8 U |
| Antimony  | UG/L  | 39.4   | 53.3 J  | 34.0 U | 34.0 U | 56.6 U  | 34.0 U |
| Arsenic   | UG/L  | 3.0 U  | 3.0 U   | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 U  |
| Barium    | UG/L  | 7.0 U  | 7.0 U   | 9.4    | 10.8   | 7.0 U   | 7.0 U  |
| Beryllium | UG/L  | 1.0 U  | 1.0 U   | 1.0 U  | 1.0 U  | 1.0 U   | 1.0 U  |
| Cadmium   | UG/L  | 3.0 U  | 3.0 U   | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 U  |
| Calcium   | UG/L  | 95.2 U | 175     | 11800  | 12300  | 140 U   | 159 U  |
| Chromium  | UG/L  | 7.0 UJ | 7.0 UJ  | 15.6   | 7.0 U  | 7.0 U   | 7.0 U  |
| Cobalt    | UG/L  | 4.0 U  | 4.6     | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 U  |
| Copper    | UG/L  | 6.0 U  | 6.0 U   | 20.8 U | 17.9 U | 6.0 U   | 6.0 U  |
| Iron      | UG/L  | 35.0 U | 10.6 U  | 65.1 U | 117    | 16.1 U  | 59.2 U |
| Lead      | UG/L  | 1.0 U  | 1.4 U   | 2.8 U  | 1.6 U  | 1.0 U   | 1.0 U  |
| Magnesium | UG/L  | 27.0 U | 41.0    | 1900   | 2000   | 27.0 U  | 61.2 U |
| Manganese | UG/L  | 1.5 U  | 1.1     | 1.0 UJ | 1.0 UJ | 1.0 UJ  | 9.1    |
| Mercury   | UG/L  | 0.13 U | 0.13 U  | 0.13 U | 0.10 U | 0.13 U  | 0.13 U |
| Nickel    | UG/L  | 7.0 U  | 7.0 U   | 15.5 U | 10.2 U | 7.0 U   | 7.0 U  |
| Potassium | UG/L  | 10.0 U | 146 J   | 1570   | 1380   | 10.0 UJ | 29.5 U |
| Selenium  | UG/L  | 4.0 UJ | 4.0 U   | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 U  |
| Silver    | UG/L  | 5.0 UJ | 5.0 UJ  | 9.0 U  | 5.0 U  | 5.0 U   | 5.0 U  |
| Sodium    | UG/L  | 140 U  | 132 U   | 35800  | 38500  | 140 U   | 424 U  |
| Thallium  | UG/L  | 4.0 UJ | 4.0 U   | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 U  |
| Vanadium  | UG/L  | 3.0 U  | 3.0 UJ  | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 U  |
| Zinc      | UG/L  | 3.0 U  | 3.0 U   | 14.3 U | 12.6 U | 4.0 U   | 3.5    |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TOTAL METALS

| Client Sample ID:     | 1-SIER-06 | 1-SIER-08 | 28-GWER-01 | 28-GWER-02 | 28-GWER-03 | 28-SDER-01 |
|-----------------------|-----------|-----------|------------|------------|------------|------------|
| Laboratory Sample ID: | 940289-20 | 940289-32 | 940320-15  | 940341-32  | 940389-13  | 940246-36  |
| Date Sampled:         | 4/10/94   | 4/12/94   | 4/20/94    | 4/25/94    | 5/8/94     | 3/27/94    |

|           | UNITS |        |        |        |         |        |        |
|-----------|-------|--------|--------|--------|---------|--------|--------|
| Aluminum  | UG/L  | 99.8   | 33.0 U | 33.0 U | 40.9 J  | 33.0 U | 79.1   |
| Antimony  | UG/L  | 34.0 U | 34.0 U | 47.7   | 34.0 UJ | 34.0 U | 34.0 U |
| Arsenic   | UG/L  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 U  | 3.0 U  |
| Barium    | UG/L  | 7.0 U  | 7.0 U  | 7.0 U  | 31.7    | 7.0 U  | 7.0 U  |
| Beryllium | UG/L  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U   | 1.0 U  | 1.0 U  |
| Cadmium   | UG/L  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 UJ | 3.0 U  |
| Calcium   | UG/L  | 792    | 124 U  | 91.9 U | 13300   | 89.5 U | 141 U  |
| Chromium  | UG/L  | 7.0 U  | 7.0 U  | 7.0 U  | 7.0 UJ  | 7.0 UJ | 7.5    |
| Cobalt    | UG/L  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 U  | 4.0 U  |
| Copper    | UG/L  | 6.0 U  | 6.0 U  | 6.0 U  | 13.0    | 6.0 U  | 6.8    |
| Iron      | UG/L  | 34.2 J | 5.0 U  | 49.4 U | 199 J   | 35.0 U | 40.1 U |
| Lead      | UG/L  | 1.0 U  | 1.0 U  | 1.0 U  | 8.2     | 1.0 U  | 1.2    |
| Magnesium | UG/L  | 63.7   | 31.9 U | 37.0 U | 1750    | 27.0 U | 47.8   |
| Manganese | UG/L  | 1.0 U  | 1.0 U  | 1.2 U  | 2.8 J   | 3.6 U  | 1.0 U  |
| Mercury   | UG/L  | 0.13 U | 0.13 U | 0.10 U | 0.13 U  | 0.13 U | 0.13 U |
| Nickel    | UG/L  | 7.0 U  | 7.0 U  | 7.0 U  | 7.0 UJ  | 7.0 U  | 17.4 U |
| Potassium | UG/L  | 99.1   | 29.7 U | 44.0 U | 1540 J  | 10.0 U | 155 U  |
| Selenium  | UG/L  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 UJ | 4.0 UJ |
| Silver    | UG/L  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 UJ  | 5.0 UJ | 5.0 U  |
| Sodium    | UG/L  | 1340   | 189 U  | 317 U  | 44700   | 95.9 U | 340 U  |
| Thallium  | UG/L  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 UJ | 4.0 U  |
| Vanadium  | UG/L  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 UJ  | 3.0 U  | 3.0 U  |
| Zinc      | UG/L  | 11.4 U | 7.2 U  | 3.0 U  | 13.7    | 11.8 U | 10.4 U |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 28-SDER-02 | 28-SDER-03 | 28-SIER-01 | 28-SIER-02 | 28-SIER-03 | 28-SIER-05 |
|-----------------------|------------|------------|------------|------------|------------|------------|
| Laboratory Sample ID: | 940246-37  | 940250-07  | 940241-06  | 940241-07  | 940246-38  | 940281-09  |
| Date Sampled:         | 3/28/94    | 3/29/94    | 3/24/94    | 3/25/94    | 3/27/94    | 4/7/94     |

|           | UNITS |        |        |         |         |        |        |
|-----------|-------|--------|--------|---------|---------|--------|--------|
| Aluminum  | UG/L  | 40.0   | 33.0 U | 33.0 U  | 33.0 U  | 33.0 U | 33.0 U |
| Antimony  | UG/L  | 34.0 U | 34.0 U | 34.0 UJ | 34.0 UJ | 34.0 U | 34.0 U |
| Arsenic   | UG/L  | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 U   | 3.0 U  | 3.0 U  |
| Barium    | UG/L  | 7.0 U  | 7.0 U  | 7.0 U   | 7.0 U   | 7.0 U  | 7.0 U  |
| Beryllium | UG/L  | 1.0 U  | 1.0 U  | 1.0 U   | 1.0 U   | 1.0 U  | 1.0 U  |
| Cadmium   | UG/L  | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 U   | 3.0 U  | 3.0 U  |
| Calcium   | UG/L  | 118 U  | 117 U  | 209 U   | 84.8 U  | 116 U  | 97.5 U |
| Chromium  | UG/L  | 7.0 U  | 7.0 U  | 7.0 U   | 7.0 U   | 7.0 U  | 7.0 U  |
| Cobalt    | UG/L  | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 U   | 4.0 U  | 4.0 U  |
| Copper    | UG/L  | 6.0 U  | 6.0 U  | 6.0 U   | 6.0 U   | 6.0 U  | 6.0 U  |
| Iron      | UG/L  | 147 U  | 13.5 U | 27.0 U  | 41.6 U  | 26.6 U | 5.0 U  |
| Lead      | UG/L  | 2.4    | 1.0 U  | 1.0 U   | 1.0 U   | 1.0 U  | 1.0 U  |
| Magnesium | UG/L  | 27.0 U | 27.0 U | 47.3 U  | 27.0 U  | 27.0 U | 27.0 U |
| Manganese | UG/L  | 1.7    | 1.0 U  | 1.0 UJ  | 1.0 UJ  | 1.0 U  | 1.0 U  |
| Mercury   | UG/L  | 0.13 U | 0.13 U | 0.13 U  | 0.13 U  | 0.13 U | 0.13 U |
| Nickel    | UG/L  | 10.2 U | 13.7   | 7.0 UJ  | 10.1 J  | 7.4 U  | 7.0 U  |
| Potassium | UG/L  | 10.0 U | 10.0 U | 68.3 U  | 10.0 U  | 10.0 U | 29.4 U |
| Selenium  | UG/L  | 4.0 UJ | 4.0 U  | 4.0 U   | 4.0 U   | 4.0 U  | 4.0 U  |
| Silver    | UG/L  | 5.0 U  | 5.0 UJ | 5.0 U   | 6.2     | 5.0 U  | 5.0 U  |
| Sodium    | UG/L  | 355 U  | 300 U  | 180 U   | 298 U   | 351 U  | 159 U  |
| Thallium  | UG/L  | 4.0 U  | 4.0 U  | 4.0 U   | 4.0 U   | 4.0 U  | 4.0 U  |
| Vanadium  | UG/L  | 3.0 U  | 3.0 U  | 3.0 U   | 3.0 U   | 3.0 U  | 3.0 U  |
| Zinc      | UG/L  | 9.7 U  | 3.0 U  | 5.4 U   | 5.0 U   | 3.2 U  | 3.0 U  |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

| Client Sample ID:     | 30-SDER-01 | 30-SDER-02 | 30-SIER-01 | 30-SIER-03 | 231FB01   | 231FB02   |
|-----------------------|------------|------------|------------|------------|-----------|-----------|
| Laboratory Sample ID: | 940238-04  | 940238-05  | 940226-26  | 940283-10  | 940261-05 | 940302-09 |
| Date Sampled:         | 3/24/94    | 3/25/94    | 3/22/94    | 4/8/94     | 3/30/94   | 4/13/94   |

|           | UNITS |        |        |        |        |        |        |
|-----------|-------|--------|--------|--------|--------|--------|--------|
| Aluminum  | UG/L  | 62.5 U | 33.0 U | 44.3   | 45.8   | 38.8   | 57.3   |
| Antimony  | UG/L  | 34.0 U | 34.0 U | 34.0 U | 34.0 U | 34.0 U | 34.0 U |
| Arsenic   | UG/L  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  |
| Barium    | UG/L  | 7.0 U  | 7.0 U  | 7.0 U  | 8.8    | 7.0 U  | 7.0 U  |
| Beryllium | UG/L  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Cadmium   | UG/L  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  |
| Calcium   | UG/L  | 237 U  | 133 U  | 106 U  | 11700  | 162 U  | 16000  |
| Chromium  | UG/L  | 7.0 U  | 7.0 U  | 7.0 U  | 13.7 U | 7.0 U  | 7.0 U  |
| Cobalt    | UG/L  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  |
| Copper    | UG/L  | 6.0 U  | 6.0 U  | 6.0 U  | 12.9   | 6.0 U  | 6.0 U  |
| Iron      | UG/L  | 41.6 U | 19.3 U | 31.6 U | 77.7 U | 35.9 U | 38.8 U |
| Lead      | UG/L  | 1.8    | 1.0 U  | 1.0 UJ | 1.0 U  | 1.0 U  | 2.4    |
| Magnesium | UG/L  | 43.5 U | 27.0 U | 27.0 U | 1930   | 27.0 U | 1810   |
| Manganese | UG/L  | 1.3    | 1.0 U  | 1.0 UJ | 6.4    | 1.0 U  | 1.0 U  |
| Mercury   | UG/L  | 0.13 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U |
| Nickel    | UG/L  | 7.0 U  | 7.0 U  | 11.9 U | 7.0 U  | 7.0 U  | 7.0 UJ |
| Potassium | UG/L  | 69.1 U | 49.3 U | 10.0 U | 1340   | 69.0 U | 1340   |
| Selenium  | UG/L  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  |
| Silver    | UG/L  | 5.0 U  | 5.0 U  | 5.0 UJ | 5.0 U  | 5.0 U  | 5.0 U  |
| Sodium    | UG/L  | 128 U  | 145 U  | 106 U  | 37000  | 165 U  | 8020   |
| Thallium  | UG/L  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  | 4.0 U  |
| Vanadium  | UG/L  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  | 3.0 U  |
| Zinc      | UG/L  | 8.8 U  | 5 U    | 9.5 U  | 11.8   | 4.1 U  | 6.4 U  |



SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL METALS

|                       |           |           |
|-----------------------|-----------|-----------|
| Client Sample ID:     | 231FB03   | 231FB04   |
| Laboratory Sample ID: | 940341-35 | 940389-09 |
| Date Sampled:         | 4/26/94   | 5/7/94    |

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|           | <u>UNITS</u> |         |        |
|-----------|--------------|---------|--------|
| Aluminum  | UG/L         | 33.0 UJ | 125000 |
| Antimony  | UG/L         | 43.6 UJ | 34.0 U |
| Arsenic   | UG/L         | 3.0 U   | 63.3   |
| Barium    | UG/L         | 7.0 U   | 5210   |
| Beryllium | UG/L         | 1.0 U   | 25.8   |
| Cadmium   | UG/L         | 3.0 U   | 12.5 J |
| Calcium   | UG/L         | 80.7 U  | 146000 |
| Chromium  | UG/L         | 7.0 UJ  | 7.0 UJ |
| Cobalt    | UG/L         | 4.0 U   | 31.9 U |
| Copper    | UG/L         | 6.0 U   | 59.0   |
| Iron      | UG/L         | 5.0 UJ  | 102000 |
| Lead      | UG/L         | 1.3 U   | 606    |
| Magnesium | UG/L         | 27.0 U  | 46200  |
| Manganese | UG/L         | 1.0 UJ  | 4520   |
| Mercury   | UG/L         | 0.13 U  | 0.14 U |
| Nickel    | UG/L         | 7.0 UJ  | 25.2   |
| Potassium | UG/L         | 64.2 U  | 20100  |
| Selenium  | UG/L         | 4.0 U   | 4.0 UJ |
| Silver    | UG/L         | 5.0 UJ  | 5.0 UJ |
| Sodium    | UG/L         | 145 U   | 239000 |
| Thallium  | UG/L         | 4.0 U   | 4.0 UJ |
| Vanadium  | UG/L         | 3.0 UJ  | 34.6   |
| Zinc      | UG/L         | 3.0 U   | 780    |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
TOTAL METALS

| Client Sample ID:<br>Laboratory Sample ID:<br>Date Sampled: | MINIMUM<br>NONDETECTED | MAXIMUM<br>NONDETECTED | MINIMUM<br>DETECTED | MAXIMUM<br>DETECTED | LOCATION OF<br>MAXIMUM<br>DETECTED | FREQUENCY<br>OF<br>DETECTION |
|---|------------------------|------------------------|---------------------|---------------------|------------------------------------|------------------------------|
|   | <u>UNITS</u>           |                        |                     |                     |                                    |                              |
| Aluminum  | UG/L                   | 33 U                   | 77.8 U              | 38.8                | 125000                             | 231FB04 9/26                 |
| Antimony  | UG/L                   | 34 U                   | 56.6 U              | 39.4                | 53.3 J                             | 1-GWER-02 3/26               |
| Arsenic   | UG/L                   | 3 U                    | 3 U                 | 63.3                | 63.3                               | 231FB04 1/26                 |
| Barium  | UG/L                   | 7 U                    | 7 U                 | 8.8                 | 5210                               | 231FB04 5/26                 |
| Beryllium   | UG/L                   | 1 U                    | 1 U                 | 25.8                | 25.8                               | 231FB04 1/26                 |
| Cadmium   | UG/L                   | 3 U                    | 3 U                 | 12.5 J              | 12.5 J                             | 231FB04 1/26                 |
| Calcium   | UG/L                   | 80.7 U                 | 237 U               | 175                 | 146000                             | 231FB04 8/26                 |
| Chromium  | UG/L                   | 7 UJ                   | 13.7 U              | 7.5                 | 15.6                               | 1-SDER-01 2/26               |
| Cobalt  | UG/L                   | 4 U                    | 31.9 U              | 4.6                 | 4.6                                | 1-GWER-02 1/26               |
| Copper  | UG/L                   | 6 U                    | 20.8 U              | 6.8                 | 59                                 | 231FB04 4/26                 |
| Iron  | UG/L                   | 5 U                    | 147 U               | 34.2 J              | 102000                             | 231FB04 4/26                 |
| Lead  | UG/L                   | 1 U                    | 2.8 U               | 1.2                 | 606                                | 231FB04 6/26                 |
| Magnesium   | UG/L                   | 27 U                   | 61.2 U              | 41                  | 46200                              | 231FB04 9/26                 |
| Manganese   | UG/L                   | 1 UJ                   | 3.6 U               | 1.1                 | 4520                               | 231FB04 7/26                 |
| Mercury   | UG/L                   | 0.1 U                  | 0.14 U              | ND                  | ND                                 | 0/26                         |
| Nickel  | UG/L                   | 7 U                    | 17.4 U              | 10.1 J              | 25.2                               | 231FB04 3/26                 |
| Potassium   | UG/L                   | 10 U                   | 155 U               | 99.1                | 20100                              | 231FB04 8/26                 |
| Selenium  | UG/L                   | 4 UJ                   | 4 UJ                | ND                  | ND                                 | 0/26                         |
| Silver  | UG/L                   | 5 UJ                   | 9 U                 | 6.2                 | 6.2                                | 28-SIER-02 1/26              |
| Sodium  | UG/L                   | 95.9 U                 | 424 U               | 1340                | 239000                             | 231FB04 7/26                 |
| Thallium  | UG/L                   | 4 UJ                   | 4 UJ                | ND                  | ND                                 | 0/26                         |
| Vanadium  | UG/L                   | 3 U                    | 3 U                 | 34.6                | 34.6                               | 231FB04 1/26                 |
| Zinc  | UG/L                   | 3 U                    | 14.3 U              | 3.5                 | 780                                | 231FB04 4/26                 |

SITES 1, 28, AND 30  
QA/QC SAMPLES  
REMEDIAL INVESTIGATION CTO-19231  
MCB CAMP LEJEUNE, NORTH CAROLINA  
DISSOLVED METALS

|                       |            |            |             |             |             |           |
|-----------------------|------------|------------|-------------|-------------|-------------|-----------|
| Client Sample ID:     | 1-GWERD-01 | 1-GWERD-02 | 28-GWERD-01 | 28-GWERD-02 | 28-GWERD-03 | 231FBD03  |
| Laboratory Sample ID: | 940334-19  | 940341-02  | 940320-16   | 940341-33   | 940389-14   | 940341-36 |
| Date Sampled:         | 4/22/94    | 4/24/94    | 4/20/94     | 4/25/94     | 5/8/94      | 4/26/94   |

|           | UNITS |        |         |        |         |        |         |
|-----------|-------|--------|---------|--------|---------|--------|---------|
| Aluminum  | UG/L  | 33.0 U | 33.0 UJ | 33.0 U | 33.0 UJ | 33.0 U | 33.0 UJ |
| Antimony  | UG/L  | 47.5   | 66.3 J  | 34.0 U | 52.1 UJ | 34.0 U | 34.0 UJ |
| Arsenic   | UG/L  | 3.0 U  | 3.0 U   | 3.0 U  | 3.0 U   | 3.0 U  | 3.0 U   |
| Barium    | UG/L  | 7.0 U  | 7.0 U   | 7.0 U  | 7.0 U   | 7.0 U  | 7.0 U   |
| Beryllium | UG/L  | 1.0 U  | 1.0 U   | 1.0 U  | 1.0 U   | 1.0 U  | 1.0 U   |
| Cadmium   | UG/L  | 3.0 U  | 3.0 U   | 3.0 U  | 3.0 U   | 3.0 UJ | 3.0 U   |
| Calcium   | UG/L  | 185 U  | 185 U   | 147 U  | 13100   | 119 U  | 144 U   |
| Chromium  | UG/L  | 7.0 UJ | 7.0 UJ  | 9.8    | 7.0 UJ  | 7.0 UJ | 7.0 UJ  |
| Cobalt    | UG/L  | 4.0 U  | 4.1     | 4.0 U  | 4.0 U   | 4.0 U  | 4.0 U   |
| Copper    | UG/L  | 6.0 U  | 6.0 U   | 6.0 U  | 6.0 U   | 6.0 U  | 6.0 U   |
| Iron      | UG/L  | 30.7 U | 27.1 U  | 64.8 U | 5.0 UJ  | 19.8 U | 5.0 UJ  |
| Lead      | UG/L  | 1.0 U  | 1.5 U   | 1.0 U  | 1.1 U   | 1.0 U  | 1.3 U   |
| Magnesium | UG/L  | 35.8   | 27.0 U  | 40.4 U | 1720    | 27.0 U | 27.0 U  |
| Manganese | UG/L  | 4.4 U  | 1.4     | 3.4 U  | 1.0 UJ  | 2.4 U  | 1.0 UJ  |
| Mercury   | UG/L  | 0.14 U | 0.13 U  | 0.10 U | 0.13 U  | 0.13 U | 0.13 U  |
| Nickel    | UG/L  | 7.0 U  | 7.0 U   | 8.2    | 7.0 UJ  | 7.0 U  | 7.0 UJ  |
| Potassium | UG/L  | 19.0 U | 78.7 J  | 96.7 U | 1590 J  | 10.0 U | 10.0 U  |
| Selenium  | UG/L  | 4.0 UJ | 4.0 U   | 4.0 U  | 4.0 U   | 4.0 UJ | 4.0 U   |
| Silver    | UG/L  | 5.0 UJ | 5.0 UJ  | 5.3 U  | 5.0 UJ  | 5.0 UJ | 5.0 UJ  |
| Sodium    | UG/L  | 232 U  | 230 U   | 364 U  | 44300   | 123 U  | 209 U   |
| Thallium  | UG/L  | 4.0 U  | 4.0 U   | 4.0 U  | 4.0 U   | 4.0 UJ | 4.0 U   |
| Vanadium  | UG/L  | 3.0 U  | 3.0 UJ  | 3.0 U  | 3.0 UJ  | 3.0 U  | 3.0 UJ  |
| Zinc      | UG/L  | 7.7 U  | 3.1     | 3.5 U  | 4.3     | 3.0 U  | 5.0     |

SITES 1, 28, AND 30  
 QA/QC SAMPLES  
 REMEDIAL INVESTIGATION CTO-19231  
 MCB CAMP LEJEUNE, NORTH CAROLINA  
 DISSOLVED METALS

| Client Sample ID:<br>Laboratory Sample ID:<br>Date Sampled: | MINIMUM<br>NONDETECTED | MAXIMUM<br>NONDETECTED | MINIMUM<br>DETECTED | MAXIMUM<br>DETECTED | LOCATION OF<br>MAXIMUM<br>DETECTED | FREQUENCY<br>OF<br>DETECTION |
|---|------------------------|------------------------|---------------------|---------------------|------------------------------------|------------------------------|
|   | <u>UNITS</u>           |                        |                     |                     |                                    |                              |
| Aluminum  | UG/L                   | 33 U                   | 33 U                | ND                  | ND                                 | 0/6                          |
| Antimony  | UG/L                   | 34 U                   | 52.1 UJ             | 47.5                | 66.3 J                             | 1-GWERD-02<br>2/6            |
| Arsenic   | UG/L                   | 3 U                    | 3 U                 | ND                  | ND                                 | 0/6                          |
| Barium  | UG/L                   | 7 U                    | 7 U                 | ND                  | ND                                 | 0/6                          |
| Beryllium   | UG/L                   | 1 U                    | 1 U                 | ND                  | ND                                 | 0/6                          |
| Cadmium   | UG/L                   | 3 U                    | 3 U                 | ND                  | ND                                 | 0/6                          |
| Calcium   | UG/L                   | 119 U                  | 185 U               | 13100               | 13100                              | 28-GWERD-02<br>1/6           |
| Chromium  | UG/L                   | 7 UJ                   | 7 UJ                | 9.8                 | 9.8                                | 28-GWERD-01<br>1/6           |
| Cobalt  | UG/L                   | 4 U                    | 4 U                 | 4.1                 | 4.1                                | 1-GWERD-02<br>1/6            |
| Copper  | UG/L                   | 6 U                    | 6 U                 | ND                  | ND                                 | 0/6                          |
| Iron  | UG/L                   | 5 UJ                   | 64.8 U              | ND                  | ND                                 | 0/6                          |
| Lead  | UG/L                   | 1 U                    | 1.5 U               | ND                  | ND                                 | 0/6                          |
| Magnesium   | UG/L                   | 27 U                   | 40.4 U              | 35.8                | 1720                               | 28-GWERD-02<br>2/6           |
| Manganese   | UG/L                   | 1 UJ                   | 4.4 U               | 1.4                 | 1.4                                | 1-GWERD-02<br>1/6            |
| Mercury   | UG/L                   | 0.1 U                  | 0.14 U              | ND                  | ND                                 | 0/6                          |
| Nickel  | UG/L                   | 7 U                    | 7 U                 | 8.2                 | 8.2                                | 28-GWERD-01<br>1/6           |
| Potassium   | UG/L                   | 10 U                   | 96.7 U              | 78.7 J              | 1590 J                             | 28-GWERD-02<br>2/6           |
| Selenium  | UG/L                   | 4 UJ                   | 4 UJ                | ND                  | ND                                 | 0/6                          |
| Silver  | UG/L                   | 5 UJ                   | 5.3 U               | ND                  | ND                                 | 0/6                          |
| Sodium  | UG/L                   | 123 U                  | 364 U               | 44300               | 44300                              | 28-GWERD-02<br>1/6           |
| Thallium  | UG/L                   | 4 U                    | 4 U                 | ND                  | ND                                 | 0/6                          |
| Vanadium  | UG/L                   | 3 U                    | 3 U                 | ND                  | ND                                 | 0/6                          |
| Zinc  | UG/L                   | 3 U                    | 7.7 U               | 3.1                 | 5                                  | 231FBD03<br>3/6              |

**ROUND TWO**

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**SITE 1**

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**SITE 1**  
**SNEADS FERRY ROAD FUEL TANK SLUDGE AREA**  
**GROUNDWATER - QA/QC SAMPLE SUMMARY**  
**ROUND 2**  
**REMEDIAL INVESTIGATION CTO - 0231**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**TOTAL AND DISSOLVED METALS**

|               |            |             |           |            |           |            |            |             |
|---------------|------------|-------------|-----------|------------|-----------|------------|------------|-------------|
| Sample ID:    | 1-GW07-02D | 1-GW07D-02D | 1-GWER-02 | 1-GWERD-02 | 1-GWER-03 | 1-GWERD-03 | 1-GWER2-01 | 1-GWER2D-01 |
| Date Sampled: | 11/14/94   | 11/14/94    | 11/15/94  | 11/15/94   | 11/16/94  | 11/16/94   | 11/13/94   | 11/13/94    |

|           | <u>UNITS</u> |        |        |        |        |        |        |        |        |
|-----------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Aluminum  | UG/L         | 419    | 40.5 U | 22 U   | 16 U   | 16 U   | 116 U  | 17.6 U | 16 U   |
| Antimony  | UG/L         | 37 U   | 40.6 B | 37 U   | 37 U   | 37 U   | 37 U   | 37 U   | 37 U   |
| Arsenic   | UG/L         | 2 U    | 2 U    | 2 U    | 2 U    | 2 U    | 2 U    | 2 U    | 2 U    |
| Barium    | UG/L         | 13.4 B | 7.3 B  | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    |
| Beryllium | UG/L         | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    |
| Cadmium   | UG/L         | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    |
| Calcium   | UG/L         | 848 B  | 992 B  | 229 U  | 124 U  | 144 U  | 202 U  | 269 U  | 191 U  |
| Chromium  | UG/L         | 7 U    | 7 U    | 7 U    | 7 U    | 7 U    | 7 U    | 7 U    | 7 U    |
| Cobalt    | UG/L         | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    |
| Copper    | UG/L         | 5 U    | 12.2 B | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    |
| Iron      | UG/L         | 206 U  | 86.9 U | 28.1 U | 28.9 U | 16.8 U | 88.8 U | 27.5 U | 34.7 U |
| Lead      | UG/L         | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    |
| Magnesium | UG/L         | 843 B  | 758 B  | 28.4 U | 22 U   | 27.8 U | 39.2 U | 22 U   | 22 U   |
| Manganese | UG/L         | 4.4 U  | 19.1   | 1.4 U  | 1 U    | 1 U    | 1.1 B  | 1 U    | 1 U    |
| Mercury   | UG/L         | 0.19 B | 0.13 U | 0.13 U | 0.15 B | 0.13 U | 0.14 U | 0.12 U | 0.12 U |
| Nickel    | UG/L         | 12 U   | 12 U   | 12 U   | 12 U   | 12 U   | 12 U   | 12 U   | 12 U   |
| Potassium | UG/L         | 737 B  | 788 B  | 161 U  | 161 U  | 161 U  | 161 U  | 161 U  | 161 U  |
| Selenium  | UG/L         | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    |
| Silver    | UG/L         | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    |
| Sodium    | UG/L         | 1350 B | 1650 B | 219 U  | 368 U  | 306 U  | 463 U  | 329 U  | 513 U  |
| Thallium  | UG/L         | 2.3 U  | 2.2 U  | 4.7 U  | 4.6 U  | 3.8 U  | 2.8 U  | 4.3 U  | 5.2 U  |
| Vanadium  | UG/L         | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    |
| Zinc      | UG/L         | 13.9 U | 15.7 U | 11.7 U | 7.7 U  | 7.9 U  | 7.9 U  | 11.6 U | 8.1 U  |

SITE 1  
 SNEADS FERRY ROAD FUEL TANK SLUDGE AREA  
 GROUNDWATER - QA/QC SAMPLE SUMMARY  
 ROUND 2

REMEDIAL INVESTIGATION CTO - 0231  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 TOTAL AND DISSOLVED METALS

|               |          |           |
|---------------|----------|-----------|
| Sample ID:    | 1GW11-02 | 1GW11D-02 |
| Date Sampled: | 11/12/94 | 11/12/94  |

|           | <u>UNITS</u> |         |         |
|-----------|--------------|---------|---------|
| Aluminum  | UG/L         | 64.4 U  | 23.5 U  |
| Antimony  | UG/L         | 37 U    | 37 U    |
| Arsenic   | UG/L         | 8.8 B   | 3.1 B   |
| Barium    | UG/L         | 32.6 B  | 27.1 B  |
| Beryllium | UG/L         | 1 U     | 1 U     |
| Cadmium   | UG/L         | 4 U     | 4 U     |
| Calcium   | UG/L         | 90200 J | 95700 J |
| Chromium  | UG/L         | 7 U     | 7 U     |
| Cobalt    | UG/L         | 11.9 B  | 12.9 B  |
| Copper    | UG/L         | 5 U     | 8 B     |
| Iron      | UG/L         | 14700 J | 8830 J  |
| Lead      | UG/L         | 1 U     | 1 U     |
| Magnesium | UG/L         | 2990 J  | 3250 J  |
| Manganese | UG/L         | 1010 J  | 1070 J  |
| Mercury   | UG/L         | 0.13 R  | 0.29 J  |
| Nickel    | UG/L         | 12 U    | 12 U    |
| Potassium | UG/L         | 921 B   | 1040 B  |
| Selenium  | UG/L         | 4 U     | 4 U     |
| Silver    | UG/L         | 4 R     | 4 R     |
| Sodium    | UG/L         | 5850 J  | 6150 J  |
| Thallium  | UG/L         | 2.8 U   | 3.3 U   |
| Vanadium  | UG/L         | 3 U     | 3 U     |
| Zinc      | UG/L         | 13.5 U  | 15.4 U  |





**SITE 28**

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**SILE 28**  
**HADNOT POINT BURN DUMP**  
**GROUNDWATER - QA/QC SAMPLE SUMMARY**  
**ROUND 2**  
**REMEDIAL INVESTIGATION CTO - 0231**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**TOTAL AND DISSOLVED METALS**

|               |             |            |           |           |            |           |             |
|---------------|-------------|------------|-----------|-----------|------------|-----------|-------------|
| Sample ID:    | 28-GW04D-02 | 28-GW04-02 | 231-FB-10 | 231-FBD-1 | 28-GW07-02 | 28-GW07DW | 28-GW07D-02 |
| Date Sampled: | 11/15/94    | 11/15/94   | 11/16/94  | 11/16/94  | 11/17/94   | 11/17/94  | 11/17/94    |

**UNITS**

| Aluminum  | UG/L | 16 U   | 57.2 U | 16 U   | 23 U   | 132 U  | 39 U   |
|-----------|------|--------|--------|--------|--------|--------|--------|
| Antimony  | UG/L | 37 U   | 37 U   | 37 U   | 37 U   | 37 U   | 37 U   |
| Arsenic   | UG/L | 2 U    | 2 U    | 2 U    | 2 U    | 6 B    | 5.6 B  |
| Barium    | UG/L | 13.3 B | 14 B   | 3 U    | 3 U    | 320    | 281    |
| Beryllium | UG/L | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    | 1 U    |
| Cadmium   | UG/L | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    |
| Calcium   | UG/L | 83000  | 85800  | 161 U  | 143 U  | 177000 | 170000 |
| Chromium  | UG/L | 7 U    | 7 U    | 7 U    | 7 U    | 7 U    | 7 U    |
| Cobalt    | UG/L | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    | 5 U    |
| Copper    | UG/L | 5.4 B  | 5 U    | 5 U    | 5 U    | 13.6 B | 5.8 B  |
| Iron      | UG/L | 86.1 B | 177 J  | 39.6 U | 65.2 U | 38900  | 32600  |
| Lead      | UG/L | 1.2 B  | 1 U    | 1 U    | 1 U    | 8      | 1 U    |
| Magnesium | UG/L | 2620 B | 2640 B | 22 U   | 22 U   | 24000  | 21900  |
| Manganese | UG/L | 52.3   | 56.8   | 1 U    | 1 U    | 672    | 641    |
| Mercury   | UG/L | 0.57 U | 0.13 U | 0.11 U | 0.13 U | 0.11 U | 0.11 U |
| Nickel    | UG/L | 12 U   | 12 U   | 12 U   | 12 U   | 12.6 B | 12 U   |
| Potassium | UG/L | 1320 B | 1300 B | 161 U  | 161 U  | 18900  | 16700  |
| Selenium  | UG/L | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    | 4 U    |
| Silver    | UG/L | 4 R    | 4 R    | 4 U    | 4 U    | 4 U    | 4 U    |
| Sodium    | UG/L | 13900  | 13700  | 223 U  | 244 U  | 70100  | 63900  |
| Thallium  | UG/L | 4.4 U  | 2.1 U  | 2 U    | 4.5 U  | 3.3 U  | 3.6 U  |
| Vanadium  | UG/L | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    | 3 U    |
| Zinc      | UG/L | 10 U   | 9.7 U  | 9 U    | 7.1 U  | 25.1 U | 12.6 U |

S11 E 28  
 HADNOT POINT BURN DUMP  
 GROUNDWATER - QA/QC SAMPLE SUMMARY  
 ROUND 2  
 REMEDIAL INVESTIGATION CTO - 0231  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 TCL VOLATILES

Sample ID: 231-FB-10  
 Date Sampled: 11/16/94

|                            | <u>UNITS</u> |      |
|----------------------------|--------------|------|
| Chloromethane              | UG/L         | 10 U |
| Bromomethane               | UG/L         | 4 J  |
| Vinyl Chloride             | UG/L         | 10 U |
| Chloroethane               | UG/L         | 10 U |
| Methylene Chloride         | UG/L         | 10 U |
| Acetone                    | UG/L         | 25 U |
| Carbon Disulfide           | UG/L         | 10 U |
| 1,1-Dichloroethene         | UG/L         | 10 U |
| 1,1-Dichloroethane         | UG/L         | 10 U |
| 1,2-Dichloroethene (total) | UG/L         | 10 U |
| Chloroform                 | UG/L         | 10 U |
| 1,2-Dichloroethane         | UG/L         | 10 U |
| 2-Butanone                 | UG/L         | 4 J  |
| 1,1,1-Trichloroethane      | UG/L         | 10 U |
| Carbon Tetrachloride       | UG/L         | 10 U |
| Bromodichloro              | UG/L         | 10 U |
| 1,2-Dichloropropane        | UG/L         | 10 U |
| cis-1,3-Dichloropropene    | UG/L         | 10 U |
| Trichloroethene            | UG/L         | 10 U |
| Dibromochloro              | UG/L         | 10 U |
| 1,1,2-Trichloroethane      | UG/L         | 10 U |
| Benzene                    | UG/L         | 10 U |
| trans-1,3-Dichloropropene  | UG/L         | 10 U |
| Bromoform                  | UG/L         | 10 U |
| 4-Methyl-2-Pentanone       | UG/L         | 10 U |
| 2-Hexanone                 | UG/L         | 10 U |
| Tetrachloroethene          | UG/L         | 10 U |
| 1,1,2,2-Tetrachloroethane  | UG/L         | 10 U |
| Toluene                    | UG/L         | 10 U |
| Chlorobenzene              | UG/L         | 10 U |
| Ethylbenzene               | UG/L         | 10 U |
| Styrene                    | UG/L         | 10 U |
| Xylene (total)             | UG/L         | 10 U |

HADNOT POINT BURN DUMP  
 GROUNDWATER - QA/QC SAMPLE SUMMARY  
 ROUND 2  
 REMEDIAL INVESTIGATION CTO - 0231  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 TCL PESTICIDES/PCBs

|               |           |             |
|---------------|-----------|-------------|
| Sample ID:    | 231-FB-10 | 28-GW07-02D |
| Date Sampled: | 11/16/94  | 11/17/94    |

|                     | <u>UNITS</u> |         |         |
|---------------------|--------------|---------|---------|
| alpha-BHC           | UG/L         | 0.05 UJ | 0.05 UJ |
| beta-BHC            | UG/L         | 0.05 UJ | 0.05 UJ |
| delta-BHC           | UG/L         | 0.05 UJ | 0.05 UJ |
| gamma-BHC (Lindane) | UG/L         | 0.05 UJ | 0.05 UJ |
| Heptachlor          | UG/L         | 0.05 UJ | 0.05 UJ |
| Aldrin              | UG/L         | 0.05 UJ | 0.05 UJ |
| Heptachlor epoxide  | UG/L         | 0.05 UJ | 0.05 UJ |
| Endosulfan I        | UG/L         | 0.05 UJ | 0.05 UJ |
| Dieldrin            | UG/L         | 0.1 UJ  | 0.1 UJ  |
| 4,4'-DDE            | UG/L         | 0.1 UJ  | 0.1 UJ  |
| Endrin              | UG/L         | 0.1 UJ  | 0.1 UJ  |
| Endosulfan II       | UG/L         | 0.1 UJ  | 0.1 UJ  |
| 4,4'-DDD            | UG/L         | 0.1 UJ  | 0.1 UJ  |
| Endosulfan sulfate  | UG/L         | 0.1 UJ  | 0.1 UJ  |
| 4,4'-DDT            | UG/L         | 0.1 UJ  | 0.1 UJ  |
| Methoxychlor        | UG/L         | 0.5 UJ  | 0.5 UJ  |
| Endrin ketone       | UG/L         | 0.1 UJ  | 0.1 UJ  |
| Endrin aldehyde     | UG/L         | 0.1 UJ  | 0.1 UJ  |
| alpha-Chlordane     | UG/L         | 0.05 UJ | 0.05 UJ |
| gamma-Chlordane     | UG/L         | 0.05 UJ | 0.05 UJ |
| Toxaphene           | UG/L         | 5 UJ    | 5 UJ    |
| Aroclor-1016        | UG/L         | 1 UJ    | 1 UJ    |
| Aroclor-1221        | UG/L         | 2 UJ    | 2 UJ    |
| Aroclor-1232        | UG/L         | 1 UJ    | 1 UJ    |
| Aroclor-1242        | UG/L         | 1 UJ    | 1 UJ    |
| Aroclor-1248        | UG/L         | 1 UJ    | 1 UJ    |
| Aroclor-1254        | UG/L         | 1 UJ    | 1 UJ    |
| Aroclor-1260        | UG/L         | 1 UJ    | 1 UJ    |

HADNOT POINT BURN DUMP  
 GROUNDWATER - QA/QC SAMPLE SUMMARY  
 ROUND 2  
 REMEDIAL INVESTIGATION CTO - 0231  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 TCL SEMIVOLATILES

Sample ID: 231-FB-10  
 Date Sampled: 11/16/94

|                              | <u>UNITS</u> |    |   |
|------------------------------|--------------|----|---|
|                              | UG/L         | 10 | U |
| Phenol                       | UG/L         | 10 | U |
| bis(2-Chloroethyl)ether      | UG/L         | 10 | U |
| 2-Chlorophenol               | UG/L         | 10 | U |
| 1,3-Dichlorobenzene          | UG/L         | 10 | U |
| 1,4-Dichlorobenzene          | UG/L         | 10 | U |
| 1,2-Dichlorobenzene          | UG/L         | 10 | U |
| 2-Methylphenol               | UG/L         | 10 | U |
| 2,2'-oxybis(1-Chloropropane) | UG/L         | 10 | U |
| 4-Methylphenol               | UG/L         | 10 | U |
| N-Nitroso-di-n-propylamine   | UG/L         | 10 | U |
| Hexachloroethane             | UG/L         | 10 | U |
| Nitrobenzene                 | UG/L         | 10 | U |
| Isophorone                   | UG/L         | 10 | U |
| 2-Nitrophenol                | UG/L         | 10 | U |
| 2,4-Dimethylphenol           | UG/L         | 10 | U |
| bis(2-Chloroethoxy)          | UG/L         | 10 | U |
| 2,4-Dichlorophenol           | UG/L         | 10 | U |
| 1,2,4-Trichlorobenzene       | UG/L         | 10 | U |
| Naphthalene                  | UG/L         | 10 | U |
| 4-Chloroaniline              | UG/L         | 10 | U |
| Hexachlorobutadiene          | UG/L         | 10 | U |
| 4-Chloro-3-methylphenol      | UG/L         | 10 | U |
| 2-Methylnaphthalene          | UG/L         | 10 | U |
| Hexachlorocyclopentadiene    | UG/L         | 10 | U |
| 2,4,6-Trichlorophenol        | UG/L         | 10 | U |
| 2,4,5-Trichlorophenol        | UG/L         | 25 | U |
| 2-Chloronaphthalene          | UG/L         | 10 | U |
| 2-Nitroaniline               | UG/L         | 25 | U |
| Dimethylphthalate            | UG/L         | 10 | U |
| Acenaphthylene               | UG/L         | 10 | U |
| 2,6-Dinitrotoluene           | UG/L         | 10 | U |

HADNOT POINT BURN DUMP  
GROUNDWATER - QA/QC SAMPLE SUMMARY  
ROUND 2  
REMEDIAL INVESTIGATION CTO - 0231  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
TCL SEMIVOLATILES

Sample ID: 231-FB-10  
Date Sampled: 11/16/94

|                            | <u>UNITS</u> |    |   |
|----------------------------|--------------|----|---|
| 3-Nitroaniline             | UG/L         | 25 | U |
| Acenaphthene               | UG/L         | 10 | U |
| 2,4-Dinitrophenol          | UG/L         | 25 | U |
| 4-Nitrophenol              | UG/L         | 25 | U |
| Dibenzofuran               | UG/L         | 10 | U |
| 2,4-Dinitrotoluene         | UG/L         | 10 | U |
| Diethylphthalate           | UG/L         | 10 | U |
| 4-Chlorophenyl-phenylether | UG/L         | 10 | U |
| Fluorene                   | UG/L         | 10 | U |
| 4-Nitroaniline             | UG/L         | 25 | U |
| 4,6-Dinitro-2-methylphenol | UG/L         | 25 | U |
| N-Nitrosodiphenylamine     | UG/L         | 10 | U |
| 4-Bromophenyl-phenylether  | UG/L         | 10 | U |
| Hexachlorobenzene          | UG/L         | 10 | U |
| Pentachlorophenol          | UG/L         | 25 | U |
| Phenanthrene               | UG/L         | 10 | U |
| Anthracene                 | UG/L         | 10 | U |
| Carbazole                  | UG/L         | 10 | U |
| Di-n-butylphthalate        | UG/L         | 10 | U |
| Fluoranthene               | UG/L         | 10 | U |
| Pyrene                     | UG/L         | 10 | U |
| Butylbenzylphthalate       | UG/L         | 10 | U |
| 3,3'-Dichlorobenzidine     | UG/L         | 10 | U |
| Benzo(a)anthracene         | UG/L         | 10 | U |
| Chrysene                   | UG/L         | 10 | U |
| bis(2-Ethylhexyl)phthalate | UG/L         | 10 | U |
| Di-n-octylphthalate        | UG/L         | 10 | U |
| Benzo(b)fluoranthene       | UG/L         | 10 | U |
| Benzo(k)fluoranthene       | UG/L         | 10 | U |
| Benzo(a)pyrene             | UG/L         | 10 | U |
| Indeno(1,2,3-cd)pyrene     | UG/L         | 10 | U |
| Dibenz(a,h)anthracene      | UG/L         | 10 | U |
| Benzo(g,h,i)perylene       | UG/L         | 10 | U |