



CH2MHILL

PROJECT NUMBER

177556.SA.FE

BORING NUMBER

MW-181

SHEET 1 of 3

SOIL BORING LOG

PROJECT : Memphis Depot Remedial Investigation Plan LOCATION : Memphis, TN

ELEVATION:

DRILLING CONTRACTOR : Prosonic Corporation

NAME OF DRILLER : Adam Marshall

DRILLING METHOD/EQUIPMENT: Rotosonic Drilling

SIZE/TYPE OF BIT : 4 X 6"

OVERBURDEN THICKNESS : DEPTH DRILLED INTO ROCK : N/A

TOTAL DEPTH OF BORING : 96 ft-bgs

WATER LEVELS : START : 10/20/2005 END : 10/21/2005

LOGGER : Mike Karafa/ATL

| DEPTH BELOW SURFACE (FT) | | | | STANDARD | SOIL DESCRIPTION | COMMENTS |
|--------------------------|------|-----|-----|--------------|---|--|
| SAMPLE INTERVAL (FT) | | | | PENETRATION | SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. FID (ppm) |
| RECOVERY (FT) | | | | TEST RESULTS | | |
| #/TYPE | | | | 6"-6"-6" (N) | | |
| 0-16 | 100% | N/A | N/A | N/A | 0-1: SILTY SAND, grass, roots 1-17: SILT, grayish brown, damp, loess | 0.0 0.0 0.8 1.2 1.7 1.8 |
| 16-26 | 100% | N/A | N/A | N/A | 17-28: SAME AS ABOVE, brown, loess | 11.5 10.7 51.2 93.4 11.2 |
| 26-36 | 100% | N/A | N/A | N/A | 28-31: SILTY SAND, reddish orange, loose, damp, fine to medium grain, gravel 31-42: SILTY SAND, reddish orange, loose, fine gravel @ 34', subangular, up to 1" | 0.0 0.5 1.4 |



SHEET 2 of 3

SOIL BORING LOG

| | | | | |
|--|--|-------------------------------|---------------------------------|-----------------------------------|
| PROJECT : Memphis Depot Remedial Investigation Plan LOCATION : Memphis, TN | | | ELEVATION: | |
| DRILLING CONTRACTOR : Prosonic Corporation | | | NAME OF DRILLER : Adam Marshall | |
| DRILLING METHOD/EQUIPMENT: Rotosonic Drilling | | | SIZE/TYPE OF BIT : 4 X 6" | |
| OVERBURDEN THICKNESS : | | DEPTH DRILLED INTO ROCK : N/A | | TOTAL DEPTH OF BORING : 96 ft-bgs |
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MW-181.xls



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SHEET 3 of 3

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| RECOVERY (FT) | | | | TEST RESULTS | | |
| #/TYPE | | | | 6"-6"-6" (N) | | |
| 70 | 66-76 | 100% | N/A | N/A | 69-75: GRAVELLY SAND, tan, very coarse grain, loose, wet, gravel chert up to 1.5" (74-75') | 0.0 |
| 75 | | | | | 75-79: SAND, orangish tan, fine to medium grain, loose, saturated, silt @ 77' | 0.0 |
| 80 | 76-86 | 100% | N/A | N/A | 77-85: SILTY CLAY, orange, stiff, wet | 0.0 |
| 85 | | | | | 85-96: SILTY CLAY, dark gray, v. stiff, wet | 0.0 |
| 90 | 86-96 | 100% | N/A | N/A | | |
| 95 | | | | | | |

TD @ 96' BGS