



MACTEC Engineering and Consulting  
 3200 Town Point Dr, Suite 100  
 Kennesaw, GA 30144

# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-170

TOTAL DEPTH: 106'

## PROJECT INFORMATION

PROJECT: **DDMT**  
 SITE LOCATION: **Memphis, TN**  
 JOB NO.: **6301-04-0019**  
 LOGGED BY: **Jaime Piver**  
 PROJECT MANAGER: **Tom Holmes**  
 DATE DRILLED: **12/08/04**

## DRILLING INFORMATION

DRILLING CO.: **ProSonic**  
 DRILLER: **David Wilcox**  
 RIG TYPE: **RotoSonic**  
 TOP OF CASING ELEVATION: **273.75**  
 GROUND SURFACE ELEVATION: **273.98**

### NOTES:

- 1) Drilling technique: 0 to 79.9 ft, bgs 6-inch diameter borehole with rotonomic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 59.61ft, bgs with 15 ft of 0.01-inch slot well screen.
- 3) Well screens the Fluvial aquifer.
- 4) ▼ Stabilized water level measured on 12/12/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		Fill	grass/fill			
-5		CL	strong brown (7.5 YR 4/6) very fine grain silty CLAY, soft to medium stiff, dry	0.0		Grouted Annulus
-15		CL	strong brown (7.5 YR 4/6) to dark red (2.5 YR 3/6) very fine grain sandy, silty CLAY, soft to medium stiff, dry	0.0		
-15		SP-SC	red (2.5 YR 4/8) clayey SAND with trace pebbles, loose to medium dense, moist, becoming gravelly at 19.5'	0.0		
-20		CL	reddish yellow (7.5 YR 7/6) to light gray (7.5 YR 7/1) CLAY, very stiff to stiff	0.0		
-20		SP-SC	red (2.5 YR 4/8) clayey SAND with trace gravel, loose to medium dense, moist	0.0		
-25		SP	yellowish red (5 YR 5/8) to reddish yellow (7.5 YR 6/8) fine to medium grain SAND	0.0		
-30		SP	yellowish red (5 YR 4/6) fine to medium grain SAND with subangular (chert), loose	0.0		
-35		SP	yellowish red (5 YR 5/8) fine to medium grain SAND with trace pebbles, 45' subangular gravel	0.0		
-40		SP		0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45						
-50		SP	2" strong brown (7.5 YR 5/6) sandy CLAY yellowish red (5 YR 5/8) fine to medium grain SAND with trace pebbles, 45' subangular gravel	10.8 0.0		Bentonite Seal
-55		SP	brownish yellow (10 YR 6/6) fine to medium grain SAND with trace pebbles	0.0		
-60		SP	strong brown (7.5 YR 5/8) fine to medium SAND with pebbles to gravel	0.0		
-65				0.0		Sand Pack / Screened Interval
-70				0.0		
-75				0.8		
-80		CL	yellowish brown (10 YR 5/8) to gray (10 YR 6/1) CLAY, stiff, striations in brown clay			
-85		CL	gray (7.5 YR 5/1) silty CLAY, stiff			Bentonite Plug
-90						
-95						
-100		CL	gray (7.5 YR 5/1) fine grain sandy CLAY			
-105			Boring Terminated at 106 feet, bgs			