



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

# FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-167**

TOTAL DEPTH: **108'**

## PROJECT INFORMATION

PROJECT: **DDMT**  
SITE LOCATION: **Memphis, TN**  
JOB NO.: **6301-04-0002**  
LOGGED BY: **Jaime Piver**  
PROJECT MANAGER: **Tom Holmes**  
DATE DRILLED: **11/18/04**

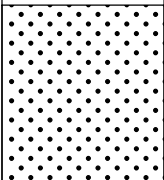
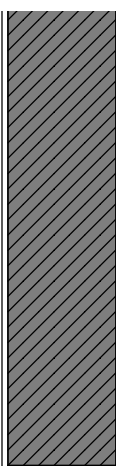
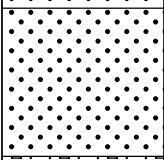
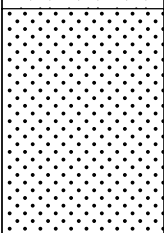

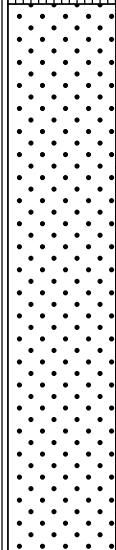
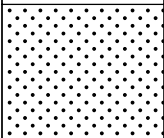
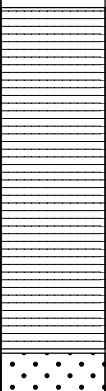
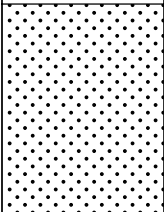
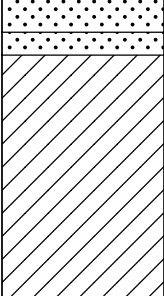
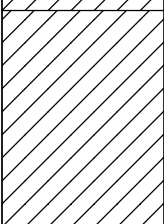
## DRILLING INFORMATION

DRILLING CO.: **ProSonic**  
DRILLER: **Dan O'Mara**  
RIG TYPE: **RotoSonic**  
TOP OF CASING  
ELEVATION: **284.82'**  
GROUND SURFACE  
ELEVATION: **285.21'**

### NOTES:

- 1) Drilling technique: 0 to 108.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 82.6 ft, bgs with 15 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4) ▼ Stabilized water level measured on 11/20/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		Fill	Asphalt and gravel road fill			Grouted Annulus
-5		CL	strong brown (7.5 YR 5/6) very fine silty, CLAY, loose, dry	0.0		
-10		CL	strong brown (7.5 YR 5/6) CLAY, soft to medium stiff, (subangular, gravel at ~17')	0.0		
-15				0.0		
-20				0.0		
-25		SW	strong brown (7.5 YR 5/8) fine to medium grain SAND with trace gravel, loose to very loose, dry (less gravel at ~28' becoming finer)	0.0		
-30				0.0		
-35		SP	reddish-yellow (7.5 YR 7/8) very fine to fine SAND with trace pebbles, dry	0.0		
-40		SP-SC	strong-brown (7.5 YR 5/8) clayey SAND with trace subangular pebbles, loose to very loose, dry	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45		SP	reddish-yellow (7.5 YR 7/8) fine to medium SAND with trace pebbles, dry coarse subangular gravel at ~50'	0.0		
-50				0.0		
-55		SP	reddish-yellow (7.5 YR 7/8) very fine to fine SAND with trace quartz pebbles, very loose to loose, dry	0.0		
-60		GP SW	6" subangular, coarse gravel, dry	0.0		
-65			reddish-yellow (7.5 YR 7/8) fine to coarse grain SAND with trace pebbles, loose to stiff, moist	0.0		Bentonite
-70		SW	reddish-yellow (7.5 YR 7/8) fine to coarse grain SAND with trace pebbles, wet			Sand Pack / Screened Interval
-75						
-80		SW	reddish-yellow (7.5 YR 7/8) fine to coarse SAND with subangular pebbles, wet			
-85						
-90		SW CL	reddish-yellow (7.5 YR 7/8) fine to coarse grain, clayey SAND and GRAVEL, very loose, moist			
-95			strong brown (7.5 YR 5/6) CLAY, stiff to very stiff (gray (10 YR 5/1) CLAY with laminations at ~98'			Bentonite Plug
-100		CL	gray (10 YR 5/1) CLAY, very stiff			
-105			Boring Terminated at 108 ft, bgs			