



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

# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-162

TOTAL DEPTH: 96'


## PROJECT INFORMATION

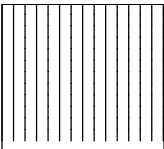
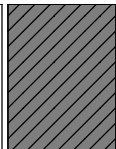
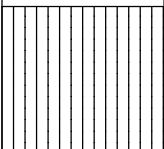
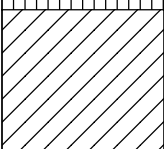
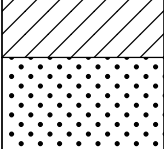


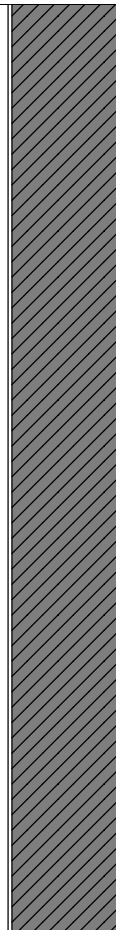
PROJECT: **DDMT**  
SITE LOCATION: **Memphis, TN**  
JOB NO.: **6301-04-0019**  
LOGGED BY: **Kevin Arnold**  
PROJECT MANAGER: **Tom Holmes**  
DATE DRILLED: **10/08/04**

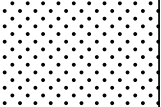
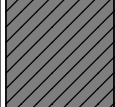
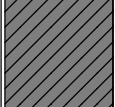
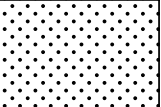
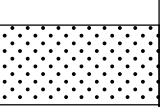
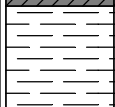
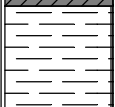

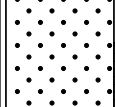
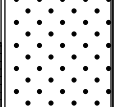
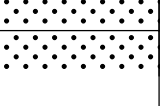
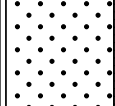
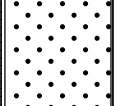
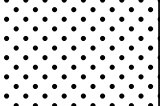
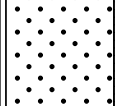
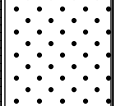


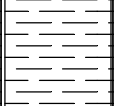









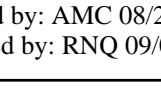

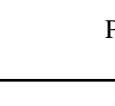
## DRILLING INFORMATION

DRILLING CO.: **ProSonic**  
DRILLER: **David Wilcox**  
RIG TYPE: **RotoSonic**  
TOP OF CASING  
ELEVATION: **299.70**  
GROUND SURFACE  
ELEVATION: **299.89**

### NOTES:

- 1) Drilling technique: 0 to 96.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 86.97ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 10/15/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		ML	strong brown (7.5 YR 5/6) clayey SILT, loose			Grouted Annulus
-5			No Recovery			
-10		ML	strong brown (7.5 YR 5/6) clayey SILT, loose	0.0		
-15				0.0		
-20		CL	reddish yellow (7.5 YR 6/6) silty CLAY, medium stiff to stiff, medium plasticity	0.0		
-25				0.0		
-30		SP	reddish yellow (7.5 YR 6/6) fine grain SAND and CLAY, medium stiff, medium to low plasticity	0.0		
-35		SC	reddish yellow (5 YR 6/8) clayey, fine grain SAND, medium stiff, slightly plastic	0.0		
			No Recovery			
-40		SW	yellowish red (5 YR 5/8) slightly clayey, fine to coarse gravelly, fine grain SAND, poorly sorted, well graded, well rounded gravel, loose	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SW	No Recovery	0.0			
-50			reddish yellow (7.5 YR 7/6) fine to coarse grain SAND, with trace coarse gravel, poorly sorted, well graded, loose	0.0			
-55			No Recovery	0.0			
-60		SW	reddish yellow (7.5 YR 6/6) fine to coarse grain SAND, with trace well rounded fine gravel, loose	0.0			Bentonite Seal
-65		SP	reddish yellow (7.5 YR 7/6) fine grain SAND, with trace well rounded fine gravel, well sorted, poorly graded, very loose	0.0			
-70		SP	No Recovery	0.0			Sand Pack / Screened Interval
-75		SP	reddish yellow (7.5 YR 7/6) fine grain SAND, with trace well rounded fine gravel, well sorted, poorly graded, very loose	0.0			
-80		SP	reddish yellow (7.5 YR 6/6) fine grain SAND, very loose	0.0			
-85		SP	reddish yellow (7.5 YR 6/6) fine well rounded, gravelly, fine grain SAND, very loose	0.0			Bentonite Plug
-90		CL	reddish yellow (7.5 YR 6/6) fine, well rounded, gravelly, fine grain SAND, very loose	0.0			
-95		CL	reddish yellow (7.5 YR 7/8) fine to medium grain SAND, well sorted, poorly graded, very loose, wet	0.0			
			gray (10 YR 6/1) to reddish yellow (7.5 YR 6/8) slightly silty CLAY, hard				
			bluish gray (GLE Y 2 5/1) slightly silty CLAY, hard				
			Boring Terminated at 96 ft, bgs				