



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

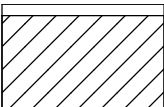


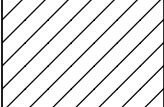
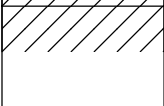
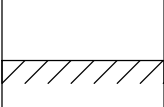
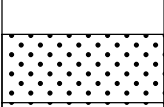
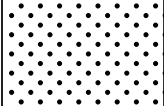
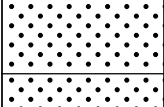
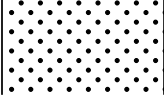
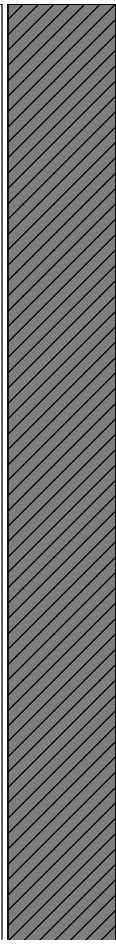
PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0019**
LOGGED BY: **Jaime Piver**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **12/08/04**

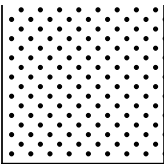
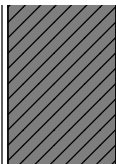
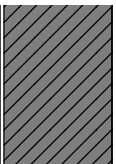
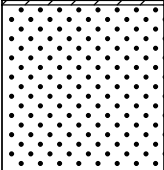
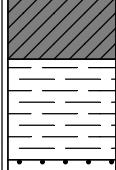
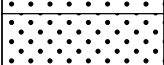

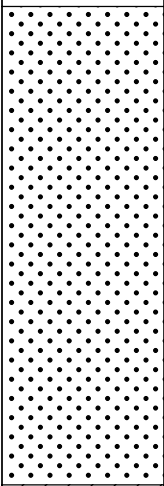

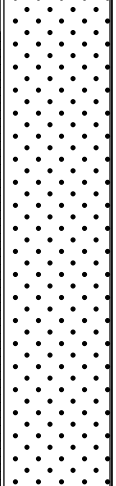



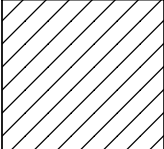


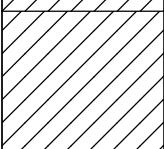

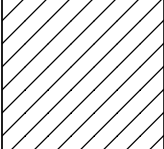

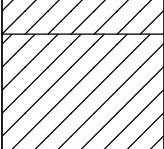



DRILLING INFORMATION

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 roto sonic.
- 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 CL	grass/fill strong brown (7.5 YR 4/6) very fine grain silty CLAY, soft to medium stiff, dry			
-5				0.0		
-10				0.0		
-15		CL SP-SC	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 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 SP-SC	reddish yellow (7.5 YR 7/6) to light gray (7.5 YR 7/1) CLAY, very stiff to stiff 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				0.0		
-40		SP	yellowish red (5 YR 5/8) fine to medium grain SAND with trace pebbles, 45' subangular gravel	0.0		
				0.0		Grouted Annulus

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