



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

FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-153**

TOTAL DEPTH: **106**


PROJECT INFORMATION

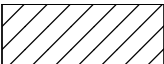
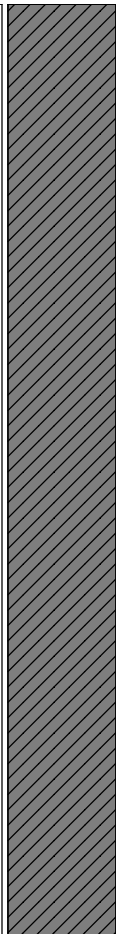


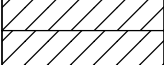

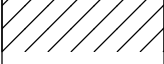
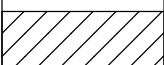
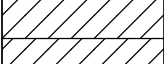





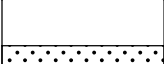
PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Kevin Arnold**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **8/16/04**

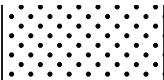
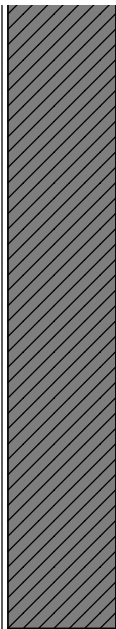
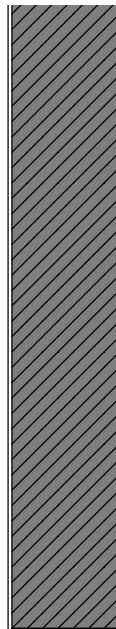
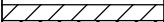

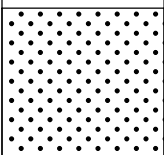
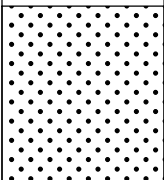
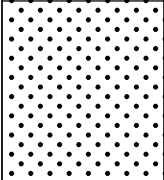
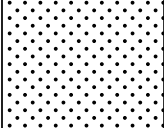
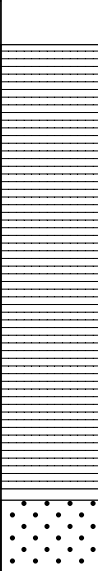
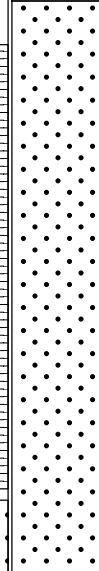
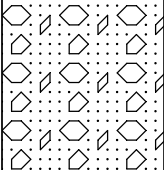
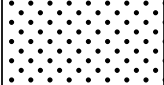


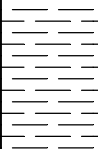

DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **David Wilcox**
RIG TYPE: **RotoSonic**
TOP OF CASING
ELEVATION: **279.17'**
GROUND SURFACE
ELEVATION: **279.26'**

NOTES:

- 1) Drilling technique: 0 to 106.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 96.0 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 8/19/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		CL	yellowish brown (10 YR 5/8), non-plastic, silty CLAY, soft, dry			Grouted Annulus
-5		CL	slightly plastic, silty CLAY, medium stiff, slightly moist			
-10		CL	yellowish brown (10 YR 5/6), medium to low plasticity, slightly silty CLAY, soft, moist			
-15		CL	yellowish brown (10 YR 5/6), silty CLAY, medium stiff, dry			
-20		CL	yellowish brown (10 YR 5/6), slightly plastic, silty CLAY, soft to medium stiff			
-25		NR	No Recovery			
-30		CL	red (2.5 YR 5/6), slightly plastic, silty CLAY, moist			
-35		CL	red (2.5 YR 5/6) non-plastic, silty CLAY with trace rounded fine gravel, well sorted			
-40		SP-GP	well rounded, fine grain SAND and fine GRAVEL with trace clay, well sorted, moist			
-45		NR	No Recovery			
-50		SP	yellowish red (5 YR 5/8), fine grain SAND with fine gravel and trace coarse gravel, trace clay, loose, moist			
-55		NR	No Recovery			
-60		NR	No Recovery			
-65		SW	reddish yellow (7.5 YR 6/8) fine to coarse grain SAND with trace fine gravel, well graded			

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP	reddish yellow (10 YR 6/8), fine grain SAND with trace coarse gravel, loose, moist	0.0			
		CL	thin CLAY lens				
		SP	reddish yellow (10 YR 6/8), fine grain SAND with trace coarse gravel, loose, moist				
		NR	No Recovery				
-50		SP	reddish yellow (7.5 YR 7/8), fine grain SAND, loose, moist				
-55		NR	No Recovery				
-60		SP	reddish yellow (7.5 YR 6/6), fine grain SAND with trace fine gravel, loose, moist				
-65		NR	No Recovery				
-70		SP	reddish yellow (7.5 YR 6/6) fine grain SAND with well sorted, well rounded fine gravel, loose, wet				
-75		NR	No Recovery				
-80		SW	reddish yellow (7.5 YR 6/8), fine to coarse grain SAND with trace coarse gravel, well sorted, loose, wet				Bentonite Seal
-85		SP-GP	reddish yellow (7.5 YR 6/8) medium grain SAND and rounded fine GRAVEL, well sorted, wet				
-90							
-95		SP	reddish yellow (7.5 YR 6/8), fine to medium grain SAND, loose, wet				
-100		CH	yellowish red (7.5 YR 6/8) highly plastic, slightly silty CLAY, hard				
-105		CH	dark gray (7.5 YR 4/1) highly plastic CLAY, hard				Bentonite Plug
			Boring Terminated at 106 feet bgs				