



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

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-155

TOTAL DEPTH: 106


PROJECT INFORMATION

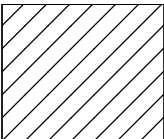
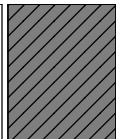

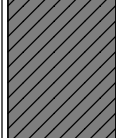

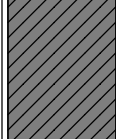
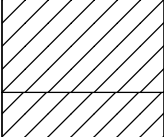
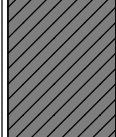
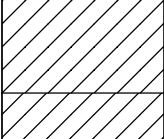
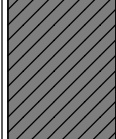
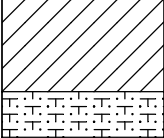
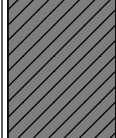
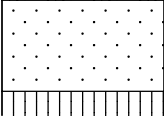
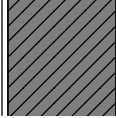
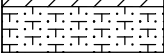


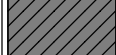
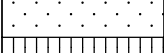

PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Kevin Arnold**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **8/12/04**

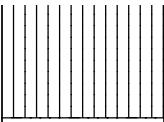
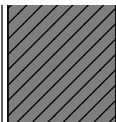
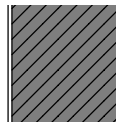
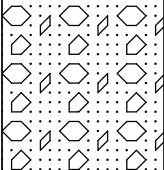
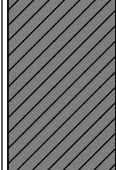
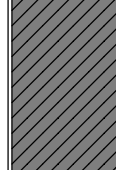
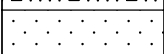







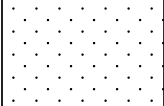
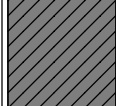
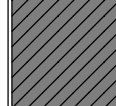
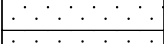


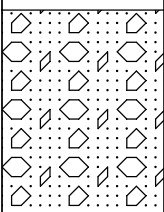
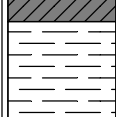
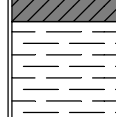
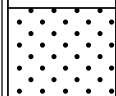
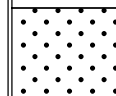
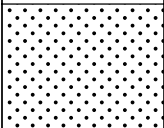
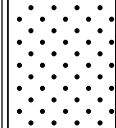
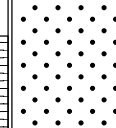
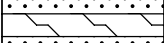


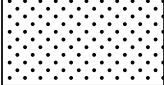
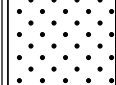
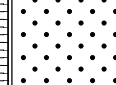
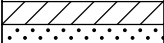


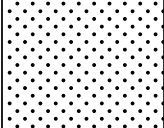
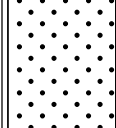
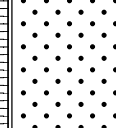




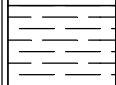
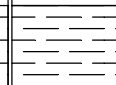
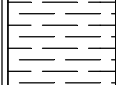
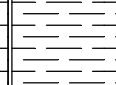
DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **David Wilcox**
RIG TYPE: **RotoSonic**
TOP OF CASING
ELEVATION: **291.65'**
GROUND SURFACE
ELEVATION: **291.84'**

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 97.0 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 8/18/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		CL	light brown and yellowish brown (10 YR 5/4), non-plastic, silty CLAY, soft, dry			Grouted Annulus
-5		CL	brown (10 YR 5/3), low to medium plasticity, silty CLAY, soft, moist			
-10		CL	brown (10 YR 5/3), medium to high plasticity, silty CLAY, very soft, moist	0.0		
-15		CL	brown (10 YR 5/3), medium to high plasticity, silty CLAY, very soft, moist	0.0		
-20		CL	yellowish brown (10 YR 5/6), low to medium plasticity, silty CLAY, medium stiff to stiff, moist	0.0		
-25		CL	yellowish brown (10 YR 5/8), silty CLAY, with trace well sorted, rounded fine gravel	0.0		
-30		CL	yellowish brown (10 YR 5/8), silty CLAY, with trace well sorted, rounded fine gravel	0.0		
-35		SW-SM	reddish brown (5 YR 4/3) silty fine to coarse SAND, with trace well graded, fine gravel, loose	0.0		
		SM	reddish brown (5 YR 4/3), fine grain silty SAND with trace clay and trace rounded fine gravel, loose	0.0		
-40		ML	reddish brown (5 YR 4/3) fine sandy SILT with well	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SM-GW	rounded cobbles, poorly sorted, very loose	0.0			
-50			yellowish red (5 YR 5/8) silty fine grain SAND, with well sorted, well rounded, fine to coarse gravel	0.0			
-55		SM	reddish yellow (5 YR 7/6), silty fine grain SAND, very loose	0.0			
		NR	No Recovery				
-60		ML	fine sandy SILT, with trace clay, loose	0.0			
		SM	silty fine grain SAND, with well sorted, well rounded, fine to coarse gravel	0.0			
-65		SM	yellow (10 YR 8/6), silty fine grained SAND with trace clay	0.0			
-70		SP-GW	yellow (10 YR 8/6), fine grain SAND with trace well sorted, well rounded, fine gravel, loose	0.0			
-75				0.0			Bentonite Seal
-80		SW	reddish yellow (7.5 YR 6/8), fine to coarse grain SAND with trace fine gravel, loose				
-85		CH	0.5' highly plastic, CLAY layer				
		SW	reddish yellow (7.5 YR 6/8), fine to coarse grain SAND, loose, wet				
-90		CL	0.5' CLAY layer				
		SW	very pale brown (10 YR 8/8/3), fine to medium grain SAND, with well sorted, rounded fine gravel, loose				
-95		CL	light bluish gray (GLEY2 7/7/1) and dark bluish gray (GLEY2 4/4/1), silty CLAY, stiff				
		CL	bluish black (GLEY2 2.5/1), medium plastic, CLAY, hard				
-100							Bentonite Plug
-105			Boring Terminated at 106 feet bgs		