



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

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-160

TOTAL DEPTH: 96'


PROJECT INFORMATION

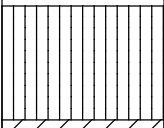
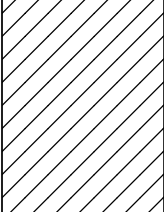
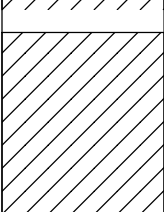
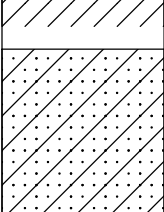
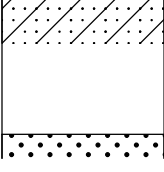
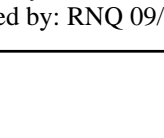
PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0019**
LOGGED BY: **Kevin Arnold**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **10/11/04**


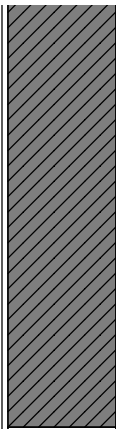
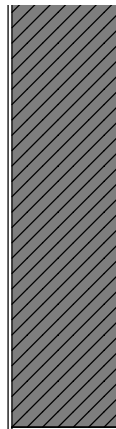
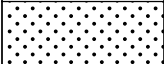
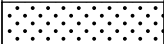
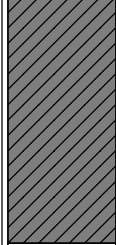
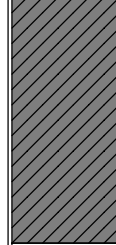
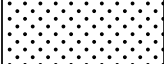
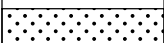
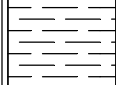
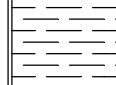
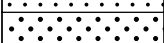

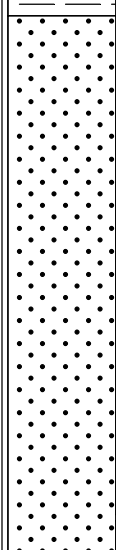
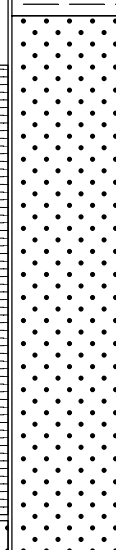


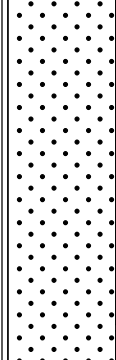
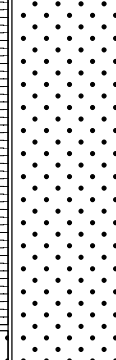


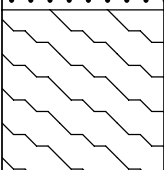

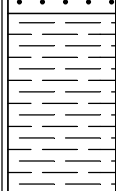

DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **David Wilcox**
RIG TYPE: **RotoSonic**
TOP OF CASING
ELEVATION: **294.00**
GROUND SURFACE
ELEVATION: **294.11**

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 86.17ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 10/11/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		FILL ML	asphalt, coarse grain SAND, loose and stiff			
-5		CL	brown (7.5YR 5/4) and brown (7.5 5/2) clayey SILT, soft	0.0		Grouted Annulus
-10		CL	brown (7.5YR 5/3) silty CLAY, medium stiff, medium plasticity, moist	0.0		
-15		CL	No Recovery	0.0		
-20		CL	strong brown (7.5YR 5/8) silty CLAY, medium plasticity, stiff	0.0		
-25		CL	No Recovery	0.0		
-30		SC	yellowish red (5YR 5/8) and reddish gray (5YR 5/2) slightly fine gravelly, clayey, fine grain SAND, stiff	0.0		
-35		SC	No Recovery	0.0		
-40		SP	yellowish red (5YR 5/8) and dark reddish brown (5YR	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45		SW	3/4) slightly clayey, fine grain SAND, with some well sorted, very rounded fine gravel, loose	0.0		
			light reddish brown (5YR 6/4) well rounded to subrounded, coarse gravelly, fine grain SAND, very loose			
			No Recovery			
-50		SW	light reddish brown (5YR 6/4) well rounded to subrounded, coarse gravelly, fine grain SAND, very loose	0.0		
						
-55			No Recovery	1.5		
-60		SW	light reddish brown (5YR 6/4) well rounded to subrounded, coarse gravelly, fine grain SAND, very loose	3.0		 Bentonite Seal
		SP	brown (7.5YR 5/4) slightly clayey, slightly fine gravelly, fine grain SAND, loose			
-65		ML	pinkish gray (7.5YR 7/2) SILT, very loose	0.0		 Sand Pack / Screened Interval
		SP	reddish yellow (7.5YR 6/8) slightly fine gravelly, fine grain SAND, loose			
			No Recovery	0.0		
-70				0.0		
-75		SP	reddish yellow (7.5YR 6/8) slightly fine gravelly, fine grain SAND, very loose	8.6		
			No Recovery			
-80		SP	reddish yellow (7.5YR 6/8) fine to medium grain SAND, loose, wet			
-85						
-90		CH	strong brown (7.5YR 5/8) slightly silty CLAY, highly plastic, hard			
-95		CL	strong brown (7.5YR 4/6) and dark gray (7.5YR 4/1) CLAY, highly plastic, hard			 Bentonite Plug
			Boring Terminated at 96 feet bgs			