



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

FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-148**

TOTAL DEPTH: **96**


PROJECT INFORMATION

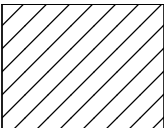
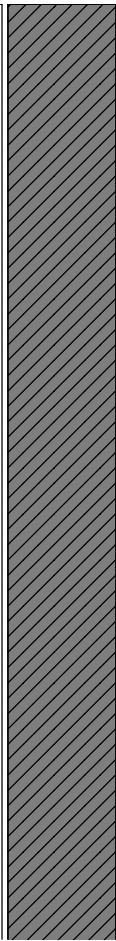
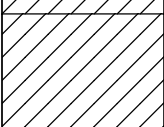
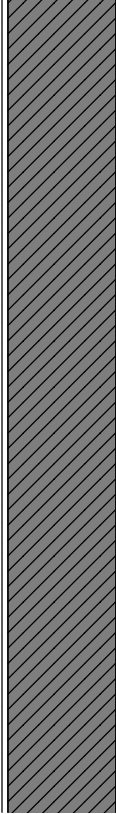

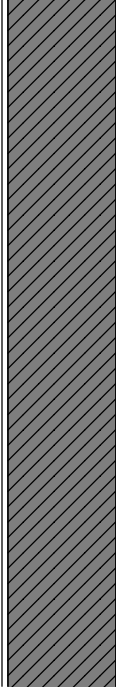
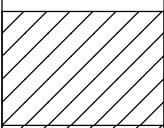
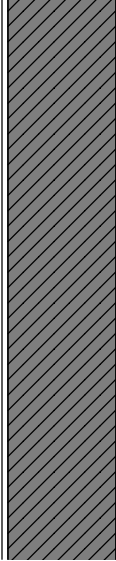

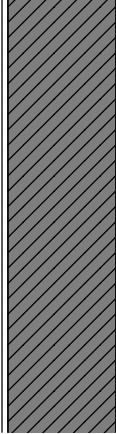
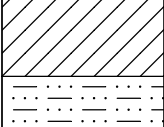
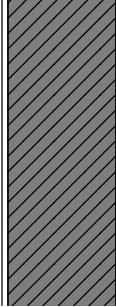
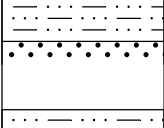
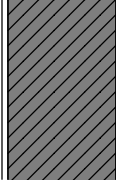
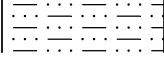

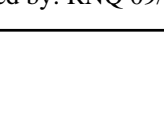

PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Amy Callaway**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **6/5/04**

DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **David Wilcox**
RIG TYPE: **RotoSonic**
TOP OF CASING ELEVATION: **294.71'**
GROUND SURFACE ELEVATION: **294.87'**

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 87.5 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 6/24/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		CL	layered brown and light brown silty CLAY, slightly plastic, soft to medium stiff	NM		Grouted Annulus
-5		CL	brown silty CLAY, moderate to medium plasticity, medium stiff, moist	NM		
-10				NM		
-15		NR	no recovery	NM		
-20		CL	brown, gray silty CLAY, moderately plastic, medium stiff	NM		
-25		CL	brown and gray slightly silty CLAY, medium stiff to soft, medium plasticity	NM		
-30		NR	no recovery	NM		
-35		CL	dark brown, reddish-brown, fine sandy CLAY, stiff, non-plastic	NM		
-40		SC-SP	dark brown, reddish-brown slightly clayey fine grain SAND, soft to medium dense, non-plastic, moist	NM		
-45		SP	reddish-brown, fine grain SAND with rounded to sub-rounded coarse size chert fragments, loose	NM		
-50		NR	no recovery	NM		
-55		SP-SC	reddish-brown, slightly clayey fine grain SAND, non-plastic, medium stiff	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP-SC	brown, light brown slightly clayey fine grain SAND with rounded coarse size chert fragments, loose	0.0			
		CL NR	fine sandy CLAY, non-plastic, with coarse size chert fragments no recovery				
-50		MH SP	light gray SILT with rounded, medium to coarse size chert fragments, well graded	0.6			
-55		NR SP	reddish-brown, fine grain SAND with rounded, medium to cobble size chert fragments, loose, well sorted no recovery	0.0			
-60		SP-SM	light gray silty fine grain SAND with rounded, medium to cobble size chert fragments, well sorted	25.4/12.6			
-65		NR	no recovery	54.8/6.4			Bentonite Seal
-70		SP-SM	light gray and yellow silty, fine grain SAND with medium grain chert fragments	0.0			Sand Pack / Screened Interval
-75		SP-SC	greenish-gray slightly clayey, fine grain SAND, loose	NA			
		NR	no recovery				
-80		ML	light gray, yellow slightly clayey SILT, trace coarse to medium size chert (10%) fragments, loose	NA			
-85		SP	yellowish-orange fine grain SAND, trace coarse size chert fragments (<5%), loose, wet	NA			
-90		CL	light brown CLAY, hard, medium plastic	NA			Bentonite Plug
-95			Boring Terminated at 96 feet bgs	NA			