



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

FIELD BOREHOLE LOG

BOREHOLE NO.: **DR2-5**

TOTAL DEPTH: **106**


PROJECT INFORMATION


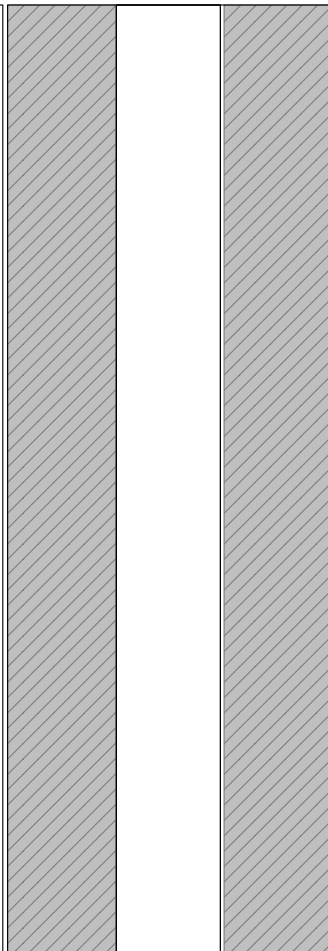
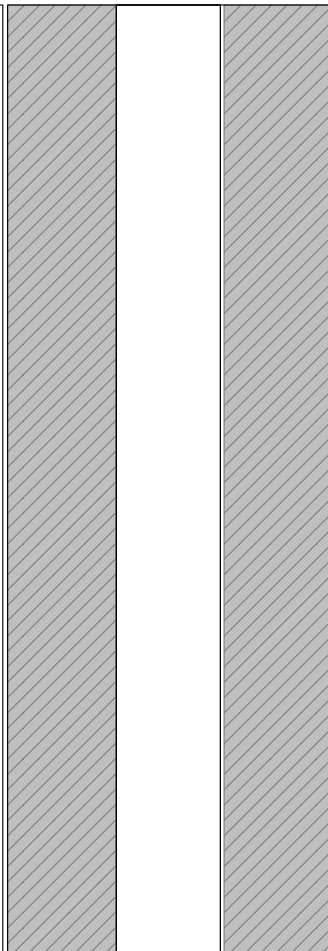
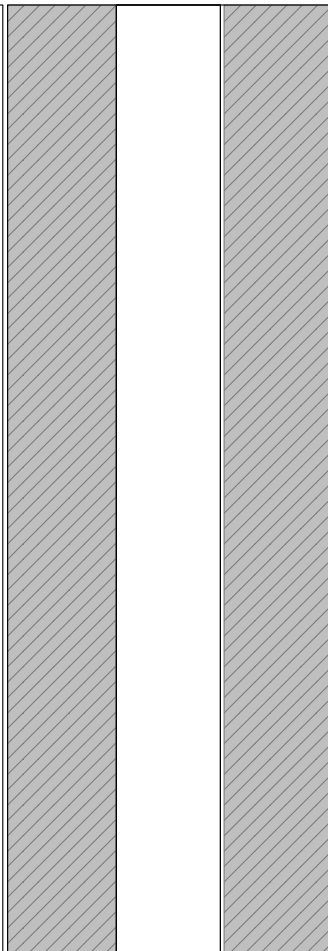


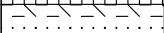
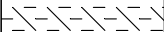
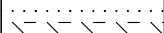
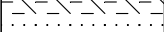
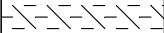
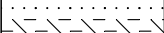
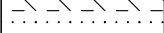
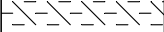
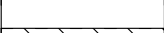

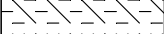
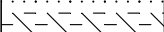
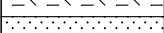
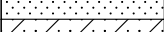
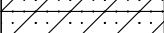
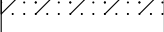

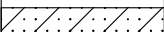
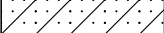
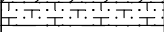
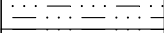
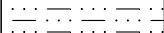
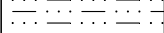
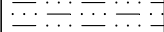
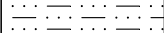
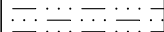
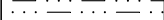
PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Amy Callaway**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **6/6/04**

DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **David Wilcox**
RIG TYPE: **RotoSonic**
TOP OF CASING
ELEVATION: **305.44'**
GROUND SURFACE
ELEVATION: **305.55'**

NOTES:

- 1) Drilling technique: 0 to 106 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 100 ft, bgs with 15 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		Fill	Asphalt	0.0				Grouted Annulus
			black (10YR 2/1) sandy GRAVEL, fill					
-5		ML	dark yellowish brown (10YR 4/4) clayey SILT	0.0				
		CL	dark yellowish brown (10YR 3/6) silty CLAY					
-10				0.0				
-15				0.0				
-20				0.0				
-25		NR	no recovery	0.0				
		CL	brown (7.5YR 4/4) sandy CLAY					
-30				0.0				
-35		SP	brownish yellow (10YR 6/6) fine grain SAND					
		SC	yellowish red (5YR 4/6) clayey fine grain SAND	0.0				
-40		SC	strong brown (7.5YR 5/6) clayey fine grain SAND					
		NR	no recovery					
-45		SC	red (10R 4/6) clayey fine grain SAND	0.0				
-50		SW-SC	red (10R 4/6) clayey fine to coarse grain SAND					
-55		SP-SC	red (2.5YR 5/8) fine grain SAND with some clay	0.0				
-60		SP-SC	red (2.5YR 5/8) fine grain SAND with some clay					
-65				0.0				
-70				0.0				
-75				0.0				
-80				0.0				
-85				0.0				
-90				0.0				
-95				0.0				
-100				0.0				
-105				0.0				
-110				0.0				
-115				0.0				
-120				0.0				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP	brownish yellow (10YR 6/8) very fine grain SAND	0.0			
-50		SP	yellowish brown (10YR 5/8) coarse grain SAND	0.0			
-55		SP	yellowish brown (10YR 5/8) coarse grain SAND with gravel	0.0			
-60		SP	brownish yellow (10YR 6/8) fine grain SAND	0.0			
-65		SP	brownish yellow (10YR 6/8) fine grain SAND with gravel	0.0			
-70		SP	brownish yellow (10YR 6/8) fine to medium grain SAND with gravel	0.0			
-75		SP	light olive gray (5Y 6/2) very fine grain SAND with some gravel	0.0			
-80		SP	reddish yellow (7.5YR 6/8) fine to medium grain SAND	0.0			
-85		SM	reddish yellow (7.5YR 6/8) fine to medium grain SAND with gravel	0.0			
-90		SW	light olive gray (5Y 6/2) silty very fine SAND	0.0			
-95		NR	brownish yellow (10YR 6/8) gravelly fine to medium grain SAND	0.0			
-100		SP	no recovery	0.0			
-105			yellow (2.5Y 7/6) fine grain SAND	0.0			
-110		SW	yellow (2.5Y 7/6) gravelly, fine grain SAND	0.0			
-115		SC-SW	yellowish brown (10YR 5/6) clayey, gravelly very fine SAND, moist	0.0			Bentonite Seal
-120		SC	yellowish brown (10YR 5/6) clayey, fine grain SAND	0.0			Sand Pack / Screened Interval
-125		SW	light brownish gray (10YR 6/2) gravelly fine grain SAND, moist	0.0			
-130		SP	light gray (10YR 7/1) fine grain SAND	0.0			
-135		SP	strong brown (7.5YR 5/6) fine grain SAND	0.0			
-140		SP	light gray (10YR 7/1) fine grain SAND	0.0			
-145		SP	yellow (2.5Y 8/6) fine grain SAND	0.0			
-150		SW	light gray (10YR 7/1) fine grain SAND	NA			
-155		SC	yellowish red (5YR 4/6) gravelly medium grain SAND	NA			
-160		GP	light gray (10YR 7/1) and yellow (10YR 7/8) interbedded clayey fine grain SAND with few pebbles, moist	NA			
-165		CH	yellowish brown (10YR 5/8) sandy GRAVEL, moist	NA			
-170		SP-SC	gray (10YR 6/1) fat CLAY	NA			Bentonite Plug
-175			gray (10YR 5/1) fine grain SAND with some clay	NA			
-180			Boring Terminated at 106 feet bgs				