



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

# FIELD BOREHOLE LOG

BOREHOLE NO.: **DR2-1**

TOTAL DEPTH: **106**


## PROJECT INFORMATION


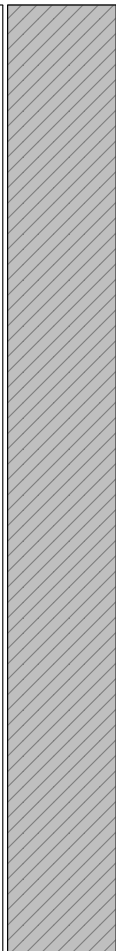


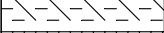

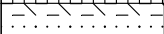
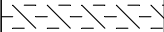
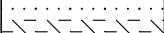
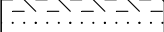
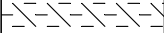

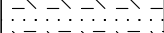
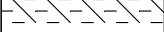
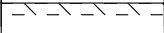
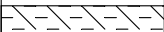


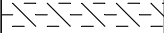

PROJECT: **DDMT**  
SITE LOCATION: **Memphis, TN**  
JOB NO.: **6301-04-0002**  
LOGGED BY: **Amy Callaway**  
PROJECT MANAGER: **Tom Holmes**  
DATE DRILLED: **6/17/04**

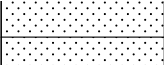



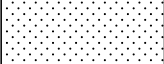
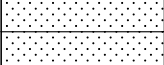


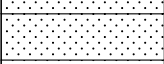

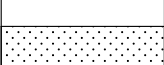
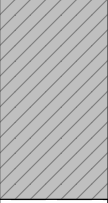

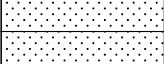
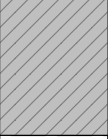

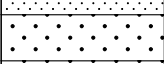
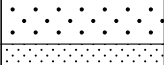
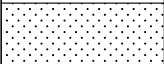


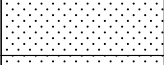

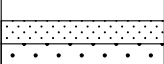
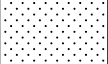



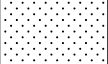
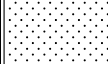
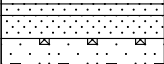

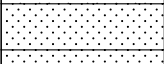


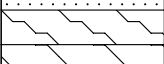


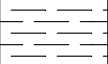
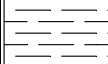










## DRILLING INFORMATION

DRILLING CO.: **ProSonic**  
DRILLER: **David Wilcox**  
RIG TYPE: **RotoSonic**  
TOP OF CASING  
ELEVATION: **304.90'**  
GROUND SURFACE  
ELEVATION: **305.08'**

### 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 94.3 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		FILL	Asphalt, concrete and sand	0.0				Grouted Annulus
		CL	dark gray (7.5YR 4/1) and brown (7.5YR 4/2) CLAY					
		ML	brown (7.5YR 4/3) clayey SILT					
-5		CL	brown (7.5YR 4/4) silty CLAY	0.0				
-10				0.0				
-15				0.0				
		CL	light gray (10YR 7/1) sandy CLAY	0.0				
		NR	No recovery					
		CL	light gray (10YR 7/1) sandy CLAY	0.0				
-20				0.0				
-25		SC	light gray (10YR 7/1) and yellowish brown (10YR 5/8) clayey, coarse grain SAND	0.0				
-30				0.0				
		SC	light brown gray medium grain SAND with some clay					
		SP	red (2.5YR 4/8) medium grain SAND					
-35		SP	yellow (2.5Y 7/6) medium grain SAND	0.0				
		NR	No recovery					
-40		SP	yellow (2.5Y 7/6) fine grain SAND	0.0				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION			WELL DESCRIPTION
-45		SP	yellow (2.5Y 7/6) fine grain SAND, with some gravel	5.4				
		SP	pale yellow (2.5Y 8/2) coarse grain SAND with gravel					
		SP	brown to pale yellow (2.5 Y 8/2) coarse grain SAND with gravel					
-50				4.2				
		SP	dusky red (10R 3/4) medium grain SAND					
		SP	very pale brown (10YR 8/2) fine grain SAND with gravel and pebbles and some subrounded chert cobbles					
-55		SP	very pale brown (10YR 8/2) fine grain SAND	0.0				
		NR	No recovery					
-60		SP	reddish brown (2.5YR 4/4) coarse grain SAND	0.0				
		SP	brown (7.5YR 5/3) coarse grain SAND with well rounded gravel size chert nodules					
		SM	very dark gray (7.5YR 3/1) silty fine grain SAND					
-65		SM	pale yellow silty, fine grain SAND with some gravel	13.5				
		SP	light gray (2.5Y 7/2) fine grain SAND with scattered gravel					
		SP	light gray (2.5Y 7/2) fine grain SAND					
-70				0.0				
		SP	yellow (10YR 7/8) and yellowish red (5YR 4/6) medium to coarse grain SAND with gravel and pebble size rounded chert nodules, moist					
		NR	No recovery					
-80		SP	grayish brown (10YR 5/2) medium grain SAND with some gravel, moist	NA				
		SM	light gray (10YR 7/2) silty fine grain SAND					
		SP	reddish brown (7.5YR 6/8) gravelly coarse grain SAND, wet					
-85		SP	pale yellow (2.5Y 7/4) gravelly medium grain SAND, wet	NA				
		SP	yellowish brown (10YR 5/8) fine grain SAND, wet					
		GP	yellowish brown (10YR 5/8) fine grain SAND, with some clay, wet					
-90		SP	brownish yellow (10YR 6/6) sandy GRAVEL, wet	NA				
		SP	gray (2.5Y 5/1) fine grain SAND, wet					
		CH	gray (2.5Y 5/1) fine grain SAND, with clay, wet					
-95		CH	gray (2.5Y 5/1) fat CLAY	NA				
			gray (2.5Y 5/1) fat CLAY					
		SP	dark gray (2.5Y 4/1) very fine grain SAND					
-105			Boring Terminated at 106 ft, bgs	NA				

Bentonite Seal

Sand Pack /  
Screened Interval

Bentonite Plug