



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

# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-156

TOTAL DEPTH: 76


## PROJECT INFORMATION

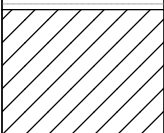
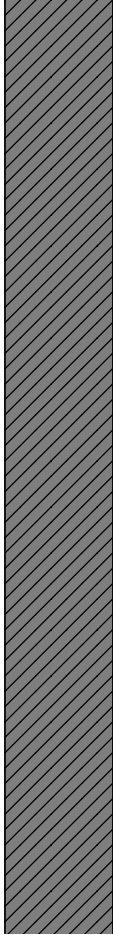

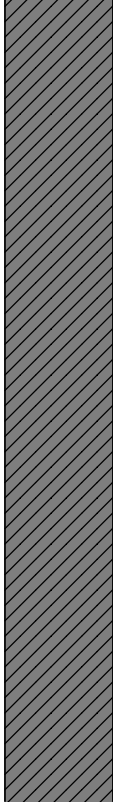

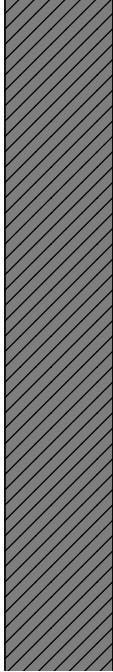
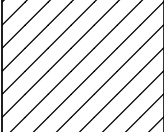
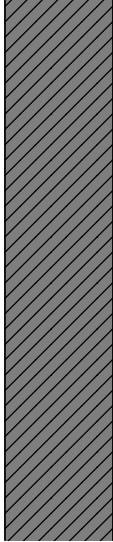
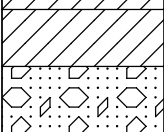
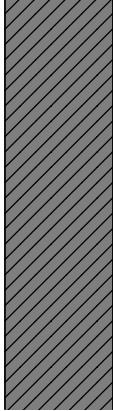
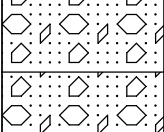
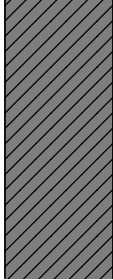
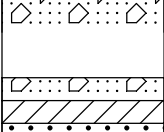
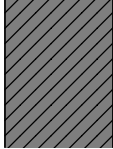
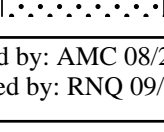



PROJECT: **DDMT**  
SITE LOCATION: **Memphis, TN**  
JOB NO.: **6301-04-0002**  
LOGGED BY: **Kevin Arnold**  
PROJECT MANAGER: **Tom Holmes**  
DATE DRILLED: **8/17/04**

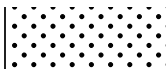

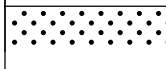
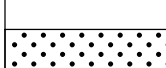
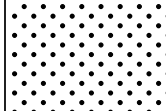
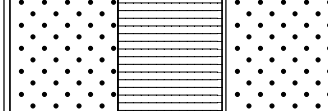
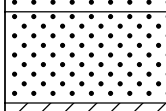

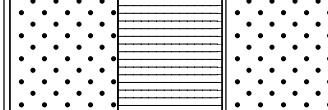
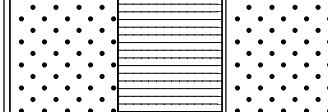
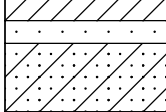
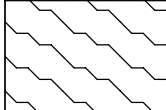
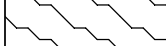
## DRILLING INFORMATION

DRILLING CO.: **ProSonic**  
DRILLER: **David Wilcox**  
RIG TYPE: **RotoSonic**  
TOP OF CASING ELEVATION: **269.15'**  
GROUND SURFACE ELEVATION: **269.21'**

### NOTES:

- 1) Drilling technique: 0 to 76.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 69.0 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 8/20/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		CL	asphalt brown (7.5YR 5/4) silty CLAY, non-plastic, soft, dry	0.0		Grouted Annulus
-5		CL	brown (7.5YR 5/4), silty CLAY, slight to medium plasticity, medium stiff, moist	0.0		
-10		CL	light brown (7.5YR 6/3), silty CLAY, slightly plastic, medium stiff, slightly moist	0.0		
-15		CL	reddish brown (2.5YR 5/4), highly plastic, slightly silty, CLAY, moist	0.0		
-20		CL	red (2.5YR 5/8), silty fine sandy CLAY, stiff, slightly plastic, with trace fine gravel	1.1		
-25		CL	reddish yellow (7.5YR 6/8), fine sandy CLAY, non-plastic, medium dense, trace fine and coarse gravel	0.0		
-30		CL-GP	reddish yellow (7.5YR 6/6), fine sandy CLAY, and fine GRAVEL with trace coarse gravel, non-plastic, medium dense, moist	0.0		
-35		SP-GP	reddish yellow (7.5YR 6/8), fine grain SAND and well sorted, round to well rounded fine GRAVEL, trace coarse gravel, loose, moist	0.0		
-40		NR	No Recovery	0.0		
		SP-GP CL SP	reddish yellow (7.5YR 6/8), fine grain SAND and well sorted rounded to well rounded fine GRAVEL, trace coarse gravel, loose, moist	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
		SP	reddish yellow (7.5YR 6/6), slightly sandy CLAY, highly plastic, moist	1.3		Bentonite Seal
-45		NR	slightly clayey, fine grain SAND with trace well sorted, rounded, fine gravel, moist			
		SP	fine grain SAND, trace well sorted, rounded, fine gravel, loose, moist			
-50		SP	No Recovery	0.0		Sand Pack / Screened Interval
		SP	brownish yellow (10YR 6/8), slightly clayey, fine and medium grain SAND, moist, loose			
-55		SP	yellow (10YR 8/8), fine grain SAND, with well sorted, rounded fine gravel, wet	0.0		
-60		CL	CLAY with well rounded, fine gravel, trace coarse gravel, poorly sorted	NA		
		CL	yellowish brown (10YR 5/4), slightly fine sandy, silty CLAY, highly plastic, dense			
-65		SM	grayish brown (10YR 5/2), slightly clayey silty fine grain SAND, medium dense, moist	NA		
		SC	grayish brown (10YR 5/2), clayey fine grain SAND, moist	NA		
-70		CH	grayish brown (10YR 5/1), slightly silty CLAY, highly plastic, dense	NA		Bentonite Plug
-75			Boring terminated at 76 feet, bgs	NA		