



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

FIELD BOREHOLE LOG

BOREHOLE NO.: **MW-147**

TOTAL DEPTH: **86**


PROJECT INFORMATION

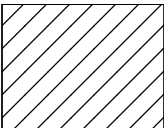
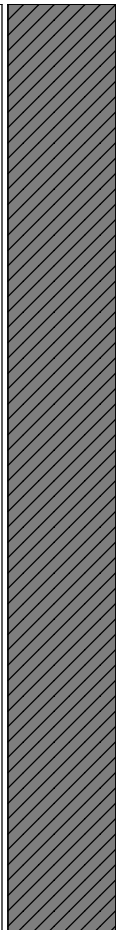

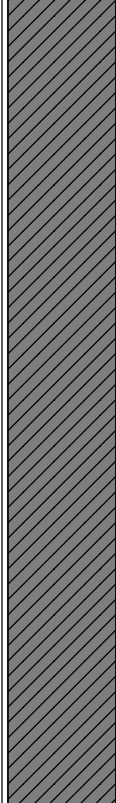

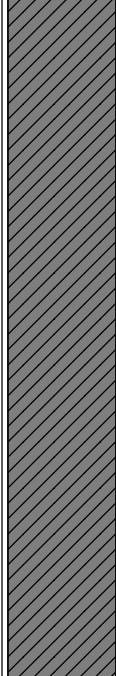
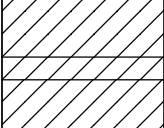
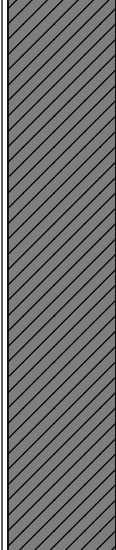
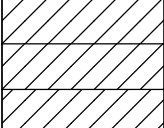
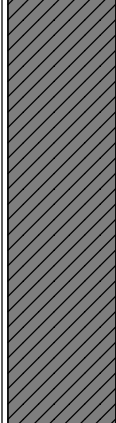
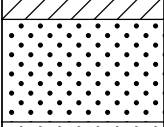
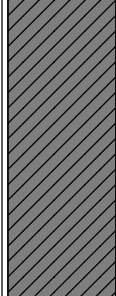
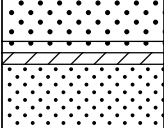
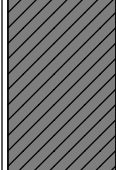
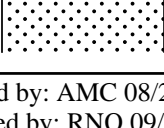

PROJECT: **DDMT**
SITE LOCATION: **Memphis, TN**
JOB NO.: **6301-04-0002**
LOGGED BY: **Amy Callaway**
PROJECT MANAGER: **Tom Holmes**
DATE DRILLED: **6/4/04**

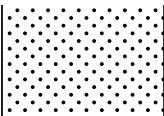
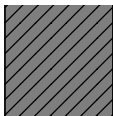
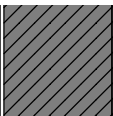
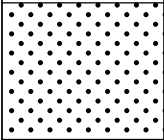
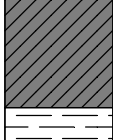
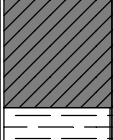
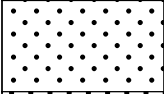
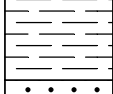
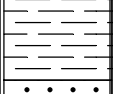



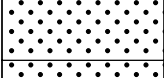


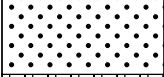


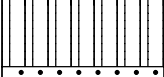


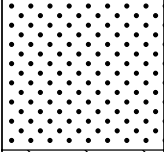
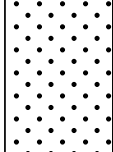
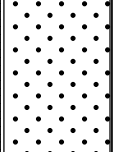
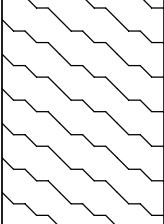
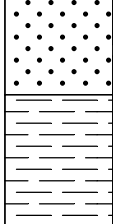
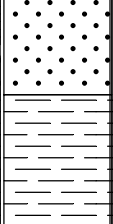
DRILLING INFORMATION

DRILLING CO.: **ProSonic**
DRILLER: **David Wilcox**
RIG TYPE: **RotoSonic**
TOP OF CASING
ELEVATION: **289.72'**
GROUND SURFACE
ELEVATION: **289.97'**

NOTES:

- 1) Drilling technique: 0 to 86.0 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 78.0 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 6/24/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		CL	dark brown and light brown silty CLAY, brittle, non-plastic, medium stiff, dry	0.0		Grouted Annulus
-5		CL	reddish-brown, gray, silty CLAY, hard, very stiff, dry	0.0		
-10		CL	brown, silty CLAY, slightly plastic, medium stiff, dry	0.0		
-15		CL	brown and light brown, silty CLAY, non-plastic, medium stiff	0.0		
-20		CL CL	silty CLAY, non-plastic, very stiff brown to light brown, silty CLAY, stiff, slightly plastic	0.0		
-25		CL	light brown and dark brown, silty fine sandy CLAY, slightly plastic	0.0		
-30		SP	reddish-brown, fine sandy CLAY, stiff, non-plastic, with trace rounded chert nodules	0.0		
-35		SP SP SW	fine and medium grain SAND, trace clay, some coarse size rounded chert (10%) fragments, poorly graded reddish-brown, fine grain SAND, trace medium grain sand, loose fine grain SAND with coarse to cobble size rounded chert fine sandy CLAY, very stiff	0.0		
-40			fine grain SAND with rounded to very rounded medium to cobble size chert fragments	0.0		

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP		14.6/2.6			
-50			yellow, light brown, fine grain SAND and rounded coarse size chert fragments	10			
-55		SP-SM	light gray, silty fine grain SAND, rounded, very loose coarse size chert fragments	39.6			Bentonite Seal
-60		SP	reddish-brown fine grain SAND, trace medium grain sand, rounded coarse size chert fragments	0.0			Sand Pack / Screened Interval
-65		SP	brown, fine to medium grain SAND, trace clay, wet				
-70		SP	light brown fine grain SAND with coarse to cobble size chert fragments, moist	46.9			▼
-75		MH	light gray SILT, very loose with coarse size chert				
-80		SP	reddish-orange, gray, fine grain SAND, trace clay, trace coarse size chert fragments, poorly graded	NA			Bentonite Plug
-85		CH	gray, CLAY, hard, plastic	NA			
			Boring Terminated at 86 feet bgs	NA			