



MACTEC Engineering and Consulting
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FIELD BOREHOLE LOG


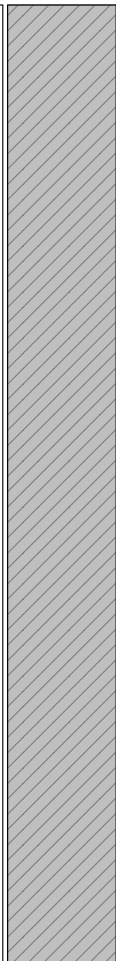


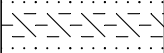


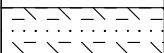
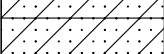
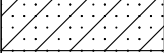
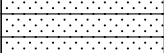


BOREHOLE NO.: MW-142

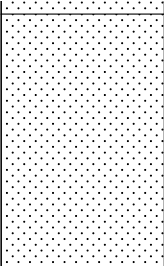


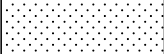
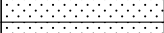
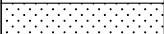

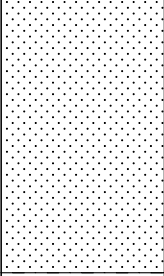
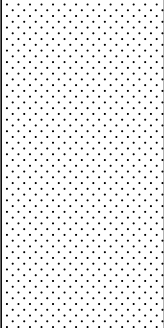
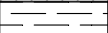
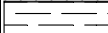
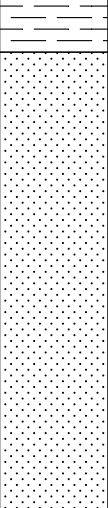
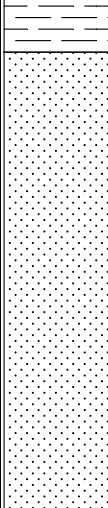





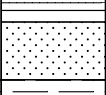

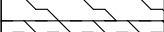
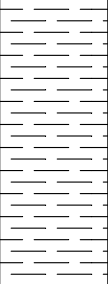
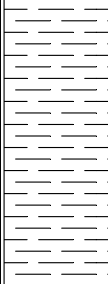

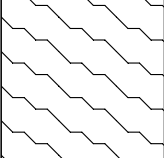
TOTAL DEPTH: 116

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	DDMT	DRILLING CO.:	ProSonic
SITE LOCATION:	Memphis, TN	DRILLER:	David Wilcox
JOB NO.:	6301-04-0002	RIG TYPE:	RotoSonic
LOGGED BY:	Amy Callaway	TOP OF CASING ELEVATION:	291.18'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	291.49'
DATE DRILLED:	5/21/04		

NOTES:

- 1) Drilling technique: 0 to 116 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 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4)  Stabilized water level measured on 6/25/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
0		GC ML	reddish brown (2.5YR 4/4) coarse sandy, clayey, GRAVEL	0.0			Grouted Annulus
-5			brown (7.5YR 4/3) clayey SILT	0.0			
-10		CL	brown (7.5YR 4/4) silty CLAY	0.0			
-15				0.0			
-20				0.0			
-25		CL	brown (7.5YR 4/4) silty CLAY, with trace sand	0.0			
-30		SC	yellowish brown (10YR 5/6) clayey coarse grain SAND	0.0			
-35		SC	red (10R 4/6) medium to coarse grain SAND with some clay	0.0			
-40		SP	strong brown (7.5YR 5/8) fine to medium grain SAND	0.0			
		SP	strong brown (7.5YR 5/8) fine to medium grain SAND, with some gravel	394.5/22.3			
		SP	brownish yellow (10YR 6/6) fine to medium grain SAND with gravel				
		SP	pale brown (10YR 6/3) fine grain SAND				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP	strong brown (7.5YR 5/6) medium grain SAND	3.2			
-50				0.2			
-55		SP	strong brown (7.5YR 5/6) medium grain SAND with gravel and clay	1.6			
-57		SP	brown (7.5 YR 4/4) medium to coarse grain SAND				
-58		SP	light gray (7.5YR 7/1) very fine grain SAND				
-60		SP	brownish yellow (10YR 5/8) medium grain SAND	0.0			
-65				0.7			
-70		SP	brownish yellow (10YR 5/8) medium grain SAND with gravel, some gravel is rounded and coarse grain	0.0			
-75				0.0			
-77			mottled light gray (7.5 7/1) with dark red (10R 3/6) CLAY with sand and gravel	0.0			
-80		CL	yellow (2.5Y 7/6) fine grain SAND	0.4			Bentonite Seal
-85				0.3			Sand Pack / Screened Interval
-90				0.0			
-93		SP	yellow (2.5Y 7/6) fine grain SAND with gravel				
-94		SP	very pale brown (10YR 8/2) fine grain SAND, wet				
-95		SP	very pale brown (10YR 8/2) fine grain SAND, with trace of pebbles, wet	NA			
-97		SP	reddish yellow (7.5YR 6/6) medium grain SAND, wet				
-100		CH	mottled brownish yellow (10YR 6/8) and light gray (10YR 7/1) fat CLAY	NA			
-105		CL	mottled brownish yellow (10YR 6/8) and light gray (10YR 7/1) sandy CLAY	NA			Bentonite Plug
-106		CH	gray (2.5 6/1) fat CLAY				
-110				NA			
-115			Boring Terminated at 116 feet bgs	NA			