



MACTEC Engineering and Consulting
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FIELD BOREHOLE LOG


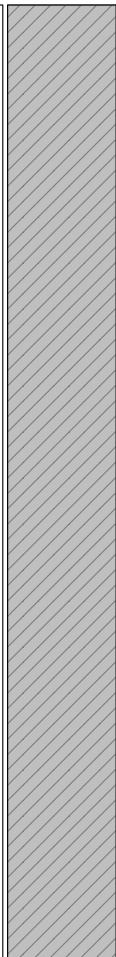
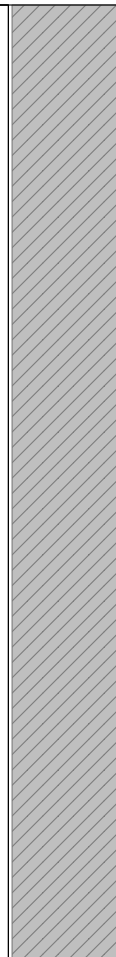

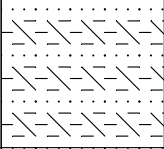
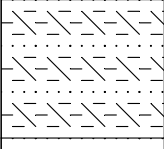
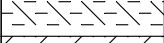
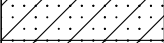
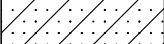
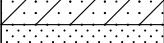
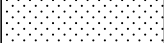
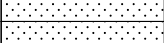
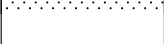

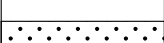
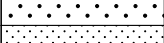
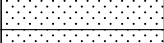
BOREHOLE NO.: **DR1-6A**

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:	293.14'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	293.52'
DATE DRILLED:	6/21/04		

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 111.5ft, 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		Fill CL	Concrete and gravel	NA				Grouted Annulus
-5			brown (7.5YR 4/4) CLAY	NA				
-10		CL	strong brown (7.5YR 5/6) sandy CLAY	NA				
-15		CL	strong brown (7.5YR 5/8) and red (2.5 YR 4/8) and pale red (2.5YR 7/2) very sandy CLAY	NA				
-20		SC	red (10R 4/6) and strong brown (7.5YR 5/8) clayey SAND	NA				
-25		SC	red (10R 4/6), with pinkish gray (7.5YR 7/2) and strong brown (7.5YR 5/8) clayey SAND	NA				
-30		SP-SC	strong brown (7.5YR 5/6) clayey medium grain SAND with some pebbles	NA				
-35		SW	strong brown (7.5YR 5/6) gravelly, medium grain to coarse SAND with some clay	NA				
-40		NR	No recovery	NA				
-45		SW	reddish yellow (7.5YR 6/8) gravelly, well-graded SAND	NA				
-50		SP	brownish yellow (10YR 6/6) fine grain SAND with some gravel	NA				
-55		SW	brownish yellow (10YR 6/6) gravelly, fine grain SAND	NA				
-60		NR	No recovery	NA				
-65				NA				

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-45		SP	very pale brown (10YR 8/3) fine grain SAND	NA		
		SW	very pale brown (10YR 8/3) gravelly, fine grain SAND			
		GC	very pale brown (10YR 8/3) fine grain SAND			
		NR	very pale brown (10YR 8/3) gravelly, fine grain SAND			
-50		SP	very pale brown (10 YR 8/3) clayey GRAVEL			
		SW	No recovery	NA		
			very pale brown (10YR 7/4) very fine grain SAND			
-55			yellowish brown (10YR 5/8) gravelly fine to medium grain SAND	NA		
		NR	No recovery			
-60		SW	yellowish brown (10YR 5/8) gravelly fine to medium grain SAND			
		SP	yellow (10YR 7/8) fine grain SAND with gravel	NA		
		SW	yellow (10YR 7/8) gravelly, fine to medium grain SAND			
		SW	yellow (10YR 7/8) gravelly, fine grain SAND			
-65		SW	yellow (10YR 7/8) gravelly, fine grain SAND			
		SP	strong brown (7.5YR 5/8) medium to coarse grain SAND	NA		
		NR	No recovery			
-70		SP	strong brown (7.5YR 5/8) coarse grain SAND with gravel			
		SP	strong brown (7.5YR 5/8) gravelly, coarse grain SAND	NA		
		SP	strong brown (7.5YR 5/8) gravelly, medium grain SAND			
-75		SP	very pale brown (10YR 8/3) gravelly, fine grain SAND	NA		
		CL	pale red (2.5YR 7/2) CLAY			
		NR	No recovery			
		SW	yellow (10YR 7/8) gravelly/cobbly fine grain SAND	NA		
-80		SW	yellow (10YR 7/8) gravelly/cobbly fine to medium grain SAND			
-85		NR	No recovery	NA		
-90		SW	yellow (10YR 7/4) fine grain SAND with trace of gravel, moist, wet at 95 ft	NA		
-95		NR	No recovery	NA		
-100		SP	very pale brown (10YR 7/4) fine grain SAND with trace of pebbles, wet	NA		
		SP	very pale brown (10YR 7/4) fine grain SAND, wet	NA		
-105		NR	No recovery	NA		
-110		SW	very pale brown (10YR 7/4) gravelly, fine grain SAND, wet	NA		
-115		SW	very pale brown (10YR 7/4) very gravelly, fine grain SAND, wet	NA		
		SW	very pale brown (10YR 7/4) very gravelly, fine grain SAND, with some cobbles, wet	NA		
			Boring Terminated at 116 ft, bgs			