

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

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-169

TOTAL DEPTH: 118'

PROJECT INFORMATION		DRILLING INFORMATION		
PROJECT:	DDMT	DRILLING CO.:	ProSonic	
SITE LOCATION:	Memphis, TN	DRILLER:	David Wilcox	
JOB NO.:	6301-04-0019	RIG TYPE:	RotoSonic	
LOGGED BY:	Jaime Piver	TOP OF CASING	261.9'	
PROJECT MANAGER:	Tom Holmes	ELEVATION: GROUND SURFACE		
DATE DRILLED:	12/9/04	ELEVATION:	262.17'	

NOTES:

- 1) Drilling technique: 0 to 118 ft, bgs 6-inch diameter borehole with rotosonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 67.78 ft, bgs with 20 ft of 0.01-inch slot well screen.
- 3) Well screens the fluvial aquifer.
- 4) The Stabilized water level measured on 12/12/04

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
0		FILL	grass, fill			
-5 —		CL CL	gray (7.5 YR 6/1) silty CLAY, very soft, loose, dry pinkish gray (7.5 YR 7/1) sandy, silty, CLAY with trace subrounded gravel (at 9.5' less silt, more gravel)			Grouted Annulus
-10 -		CL	gray (7.5 YR 6/1) silty CLAY, stiff, loose, dry			
	///////	FILL	black (7.5 YR 2.5/1) organic rich layer.			
-15 —		CL	gray (7.5 YR 6/1), SILTY CLAY, stiff, loose, dry			
		SP	strong brown (7.5 YR 5/6) clayey SAND with pebbles			
-20 -		SW	strong brown (7.5 YR 5/6) clayey SAND with gravel, very tight			

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MW-169 Borehole No. WELL **WELL** SOIL FID DEPTH **USCS** SOIL DESCRIPTION **COMPLETION** DESCRIPTION ppm **SYMBOLS** No Recovery 3" strong brown (7.5 YR 5/8) CLAY SP. yellowish red (7.5 YR 6/6) fine grain SAND, loose -30 3" pink (7.5 YR 7/8) stiff CLAY lens ξŀ yellowish red (7.5 YR 6/6) fine grain SAND, loose -35 2" pink (7.5 YR 7/4) stiff CLAY lens SF yellowish red (7.5 YR 6/6) fine grain SAND, loose -40 yellowish red (5 YR 5/6) fine to medium grain clayey SAND SP -45 SP yellowish red (5 YR 5/6) fine grain SAND with trace pebbles, loose $\,$ -50 -55 SM reddish yellow (5 YR 7/6) fine silty SAND with trace SMyellowish red (5 YR 5/6) fine grain silty SAND -60 Bentonite Seal 3" reddish yellow (5 YR 5/6) clay lens SM reddish yellow (5 YR 5/6) fine grain silty SAND with trace clay -65 SMreddish yellow (7.5 YR 7/6) fine silty SAND to gray (7.5 YR 5/1) silty SAND with trace clay strong brown (7.5 YR 5/6) CLAY separated by 6" of sand CLCLSand Pack /

gray (7.5 YR 6/1) very fine silty CLAY

yellowish brown (10 YR 5/6) silty clayey SAND, slight color change at 78' gray (7.5 YR 6/1)

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Screened Interval

Borehole No. **MW-169** WELL WELL SOIL FID DEPTH USCS SOIL DESCRIPTION COMPLETION DESCRIPTION ppm **SYMBOLS** -75 -80 -85 -SC gray (7.5 YR 6/1) very fine clayey SAND -90 Bentonite Plug -95 CL gray (7.5 YR 6/1) stiff, silty CLAY -100 -105 --110 -115 -Boring Terminated at 118 ft, bgs

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