



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


FIELD BOREHOLE LOG

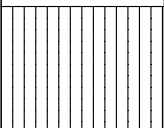


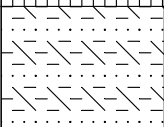
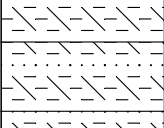
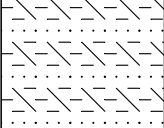
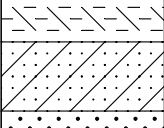
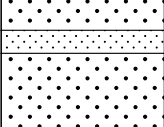
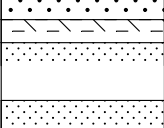
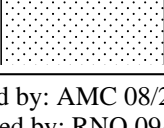
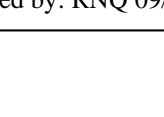
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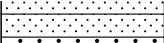


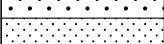
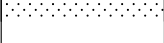
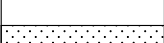
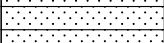
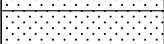
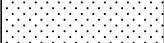
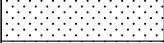
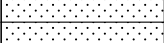
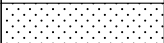
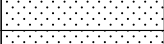

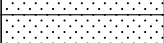
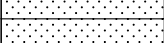
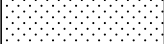
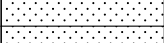
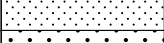





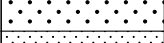
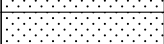
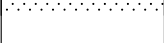
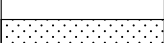
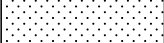
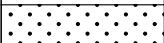




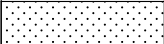
TOTAL DEPTH: **121**

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:	290.02'
PROJECT MANAGER:	Tom Holmes	GROUND SURFACE ELEVATION:	290.37'
DATE DRILLED:	6/20/04		

NOTES:

- 1) Drilling technique: 0 to 121 ft, bgs 6-inch diameter borehole with roto sonic.
- 2) Well construction: 2-inch diameter schedule 40 PVC casing set to 112.3ft, 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	Asphalt and fill material	0.0			Grouted Annulus
			brown (7.5YR 4/4) SILT with some clay				
-5		CL	brown (7.5YR 4/3) silty CLAY	0.0			
-10		CL	brown (7.5YR 4/3) silty CLAY, with trace of sand	0.0			
-15		CL	strong brown (7.5YR 5/6) and pinkish gray (7.5YR 7/2) and brown (7.5YR 4/3) sandy CLAY	0.0			
-20				0.0			
-25		SC	dark red (10YR 3/6) and reddish yellow (7.5YR 6/6) clayey fine grain SAND	0.0			
-30		SW	red (2.5YR 4/8) gravelly fine grain SAND with some clay				
		SP	yellowish red (5YR 5/8) very fine grain SAND with trace of gravel	0.1			
		SW	yellowish red (5YR 5/8) gravelly, fine to medium grain SAND				
-35		CL	brownish yellow (10YR 6/8) and yellowish red 5YR 5/6 sandy CLAY	0.0			
		SP	reddish yellow (7.5YR 6/8) fine grain SAND				
-40		NR	no recovery				
		SP	strong brown (7.5YR 4/6) fine grain SAND, with trace of gravel	6.8			

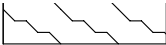
DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION		WELL DESCRIPTION
-45		SP	yellow (10YR 7/8) fine grain SAND with some gravel	3.0			
		SW	brownish yellow (10YR 6/8) well graded SAND				
		SP	yellow (10YR 7/8) fine grain SAND				
		NR	no recovery	0.1			
-50		SP	yellow (10YR 7/8) fine grain SAND with gravel				
		SP	yellow (10YR 7/8) fine grain SAND				
		SP	yellow (10YR 7/8) fine grain SAND with gravel				
-55			yellow (10YR 7/8) very fine grain SAND with gravel	.04			
		SP	brownish yellow (10YR 6/8) medium grain SAND with trace gravel				
		SP	brownish yellow (10YR 6/8) gravelly, medium grain SAND with some cobbles				
-60		SP	brownish yellow (10YR 6/8) medium grain SAND with trace of gravel	0.8			
		SP	strong brown (7.5YR 5/8) medium grain SAND				
-65		SP	strong brown (7.5YR 5/8) gravelly, medium grain SAND with cobbles	0.0			
		SP	strong brown (7.5YR 5/8) coarse grain SAND				
-70				1.0			
		SP	strong brown (7.5YR 5/8) gravelly coarse grain SAND				
-75		SW	yellow (10YR 7/6) gravelly fine grain SAND	0.0			
		SW	yellow (10YR 7/6) gravelly medium grain SAND				
-80				0.0			
		SP	yellow (10YR 7/6) fine grain SAND				
-85		SP	yellow (10YR 7/6) fine grain SAND with cobbles	0.0			
		NR	no recovery				
-90		SP	very pale brown (10YR 8/4) fine grain SAND with some gravel, damp	0.0			
		SW	yellow (10YR 7/6) gravelly fine grain SAND, moist, wet at 95 ft				
-95		NR	no recovery	NA			
		NR	no recovery				
-100		SP	very pale brown (10YR 7/4) fine grain SAND with gravel, wet	NA			
		SW	very pale brown (10YR 7/4) gravelly, fine grain SAND, wet				
-105		NR	no recovery	NA			
		SP	very pale brown (10YR 7/4) gravelly, fine grain SAND, wet				
-110		CH	very pale brown (10YR 7/4) gravelly, medium to coarse grain SAND	NA			
		CH	yellowish brown (10YR 5/8) and pale brown (10YR 6/3) fat CLAY				
-115		CH	gray (10YR 5/1) fat CLAY	NA			

Bentonite Seal

▼

Sand Pack / Screened Interval

Bentonite Plug

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	FID ppm	WELL COMPLETION	WELL DESCRIPTION
-120			Boring Terminated at 121 ft, bgs	NA		

Created by: AMC 08/21/04

Checked by: RNQ 09/02/04

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