

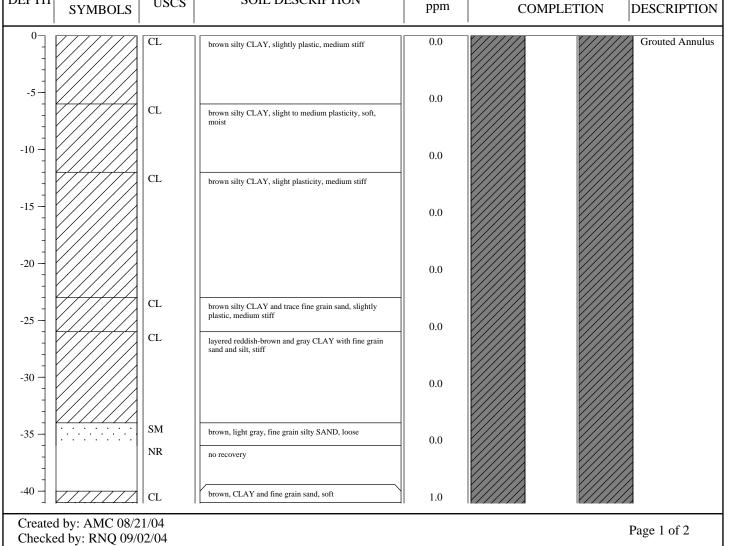
MACTEC Engineering and Consulting 3200 Town Point Dr, Suite 100 Kennesaw, GA 30144

## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-145

TOTAL DEPTH: 106

PROJE	MATION	DRILLING INFORMATION								
PROJECT:	DE	OMT	DRILLING CO.:		ProSonic	ProSonic				
SITE LOCATION	: <b>M</b> e	emphis, TN	DRILLER:		David Wilc	David Wilcox				
JOB NO.:	63	01-04-0002	RIG TYPE:		RotoSonic	RotoSonic				
LOGGED BY:	An	ny Callaway	TOP OF CASING ELEVATION: GROUND SURFACE ELEVATION:		G 284 72'	284.72'				
PROJECT MANA	GER: To	m Holmes				284.86'				
DATE DRILLED:	6/3	/04								
<ul> <li>NOTES:</li> <li>1) Drilling technique: 0 to 106.0 ft, bgs 6-inch diameter borehole with rotosonic.</li> <li>2) Well construction: 2-inch diameter schedule 40 PVC casing set to 96.8 ft, bgs with 20 ft of 0.01-inch slot well screen.</li> <li>3) Well screens the fluvial aquifer.</li> <li>4)   Stabilized water level measured on 6/24/04</li> </ul>										
DEPTH SOIL	USCS	SOIL DESCRIPTIO	ON	FID	WELL COMPLETION	WELL				



## Borehole No. MW-145

-45 -	SYMBOLS		SOIL DESCRIPTION	FID	WELL COMPLETION	WELL
-45 -				ppm	COMPLETION	DESCRIPTIO
-45 -  .		SP	gray, reddish-brown, yellow, fine grain SAND, trace medium grain sand, some rounded cobble size chert fragments			
- 1	•••••••••••••••	NR	no recovery	4.4		
-50 -		SP	gray, reddish-brown, yellow, fine grain SAND, trace medium grain sand	0.1		
-55 -		SP	yellowish-orange, light gray, fine grain SAND with clay lenses (<10%), loose	324.6/45.4		
-		NR	no recovery			
-60 -		SP	yellowish-orange, fine grain SAND, trace clay lenses (<5%), trace very rounded cobble size chert nodules (<2%), loose	1.2		
-65 -		NR	no recovery	5.0		Bentonite Seal
-70 -		SP	yellowish-orange and brown, fine grain SAND, trace silt and gray clay, loose	NA		
		SP	yellowish-orange, fine to medium grain SAND, poorly graded, loose, some clay lenses (<10%)			
-75 -	·····	SP NR	yellowish-orange, fine grain SAND, loose, with clay lenses no recovery	NA		Sand Pack / Screened Interva
-80 -		SP	yellowish-orange fine grain SAND, trace (<5%) very rounded chert nodules, loose	NA		
-85 -		SP	yellowish-orange, fine grain SAND with trace very rounded coarse size chert fragments (<5%), poorly	NA		
-90 -			graded, loose, wet	NA		
-95 -		СН	gray, brown very hard CLAY	NA		•
-100 -				NA		Bentonite Plug
-105 -			Boring Terminated at 106 feet bgs	NA		