PROJECT NUMBER 148071.FI.SB BORING NUMBER

SOIL BORING LOG

PROJECT :	ECT : Memphis Depot: Dunn Field Expanded RI LOCATION : Memphis, TN							
ELEVATION : 291.99 feet MSL (TOC)); 289.3 feet MSL (gro					
DRILLING MET				Rotosonic (four and six inch casings)				
WATER LEVEL				10/23/2000 END: 10/23/2000 LOGGEF				
DEPTH BELOW		T)	STANDARD	SOIL DESCRIPTION	COMMENTS			
INTERV	RVAL (FT) RECOVERY (IN) #/TYPE		PENETRATION TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY,	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS,			
			6"-6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.			
			(N)	MINERALOGY.	FID (ppm):			
	42	SL-1	Used rotosonic drilling method no penetration test results	SILT (ML), dark yellowish orange (10YR6/6), dry, soft	(Soil headspace) - 0.0 -			
- I - I 5				CLAY(ML), lean, dark yellowish orange (10YR6/6), dry, stiff, high to medium plasticity				
					-			
	60	SL-2		CLAY (ML), silty, dark yellowish orange(10YR6/6), moist, soft, medium to low plasticity				
					-			
 15	120	SL-3			 0.0			
- _ _ 20				SANDY CLAY (CL-ML), silt, dark, yellowish orange(10YR6/6), moist soft, medium to low plasticity, <5% gravel, chert pebbles up to				
	72	SL-4		1/8 inch rounded to subrounded				
_ 25				CLAYEY SAND (SC) , dark yellowish orange (10YR6/6), moist, soft, medium to low plasticity. <5% gravel chert pebbles 1/8 inch munded	-			
				medium to low plasticity, <5% gravel chert pebbles 1/8 inch rounded to subrounded, bands of moderate red (5R4/6) sand lenses (2-4 inches) Loss of Core	-			
 30	108	SL-5		SAND(SW), well graded, moderate red (5R4/6), <5% gravel, medium sand, loose, moist				
				SAND(SW-SM), well graded, silt and gravel, moderate red(5R4/6) 20-25% gravel, moist, loose, up to 1/2 inch gravel, medium sand SAND(SW), well graded, gravish orange (10YR7/4), fine sand,				
	I I			moist loose	0.0 _			

CH2MHILL

PROJECT NUMBER 148071.FI.SB BORING NUMBER

SOIL BORING LOG

PROJECT :	Memphis	lemphis Depot: Dunn Field Expanded RI LOCATION : Memphis, TN				
ELEVATION :); 289.3 feet MSL (gr			
DRILLING METHOD AND EQUIPMENT USED :				Rotosonic (four and six inch casings) LOGGER: S. Mellon		
WATER LEVELS: 66.00 feet BTOC (01/2001)		STANDARD	SOIL DESCRIPTION	COMMENTS		
			PENETRATION		COMMENTS	
INTERV	RECOVERY (IN) #/TYPE		TEST RESULTS	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY,	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS,	
			6"-6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.	
			(N)	MINERALOGY.	FID (ppm):	
-	60	SL-6			-	
_					_	
10				SAND(SW), well graded, pale yellowish orange (10YR8/6), moist		
40	4			loose, <5% gravel, coarse sand	—	
-	60	SL-7			-	
i _i		027			_	
i i	i			SAND (SW), well graded, moderate reddish brown (10R4/6),		
-i	i			coarse sand, moist, loose, SAND (SW-SM), well graded, with silt and gravel (SW-SM), dark	2.7 _	
45	I			yellowish, orange, (10YR8/6), moist, loose, 25% gravel up to 3/4inch		
7	٦				_	
-	I				-	
	l.					
	60	SL-8				
-					2.4 _	
	1					
-					_	
⁵⁰ — — —	4			SAND (SW-SM), well graded, with silt and gravel, dark yellowish	-	
				orange, (10YR8/6), moist, loose, cobbles up to 1inch and 30% gravel		
_	i i					
-	60	SL-9		SAND (SW), well graded, dark yellowish orange (10YR6/6), moist	-	
l i		OL-5		loose, <10% chert pebbles up to 1/4 inch rounded, medium grained		
	Ì			sand	-	
-	I				1.2 _	
55	I					
_r						
_	ļ				-	
-					-	
-	72	SL-10		@ 58 feet dark lignitic bands	-	
1 1				W 56 leet dark lightic bands	0.0	
_				SAND (SW), well graded, dark yellowish orange (10YR6/6), moist	-	
⁶⁰ —	i			loose, <10% chert pebbles up to 1/4 inch rounded, medium grained sand, pebbles up to 1 inch	-	
l i	i					
	ī			Loss of Core	-	
-i	İ			SANDSTONE, lens, dark reddish brown (10R3/4), moist, hard	-	
	36	SL-11		CLAY (CL-ML), sandy, silt, dark yellowish orange (10YR6/6), moist		
1	I			loose	-	
-!	l.			SILT with sand(ML), dark yellowish brown (10YR4/2) SAND (SW), well graded, pale yellowish orange (10YR4/6), <10%	-	
65	_			gravel chert up to 1/4 inch round, medium sand, moist to wet		
!	7				_	
-!	-				-	
	60	SL-12			-	
├──-┼ ──	1			SAND (SW), well graded, pale yellowish orange (10YR4/6), <10%		
1 .i	i		Used rotosonic	gravel chert up to 1/4 inch round, coarse sand, wet		
l ī	i		drilling method	6 inch gravel layer, 2 inch subrounded pieces	-	
70	-i			CLAY(CL), lean, dark yellowish orange(10R4/2), wet, high plasticity, stiff	—	
			results	Boring terminated at 70 feet 70 to 55 feet 2" screen		
				55 to 52 feet sand pack	-	
				52 to 50 feet bentonite chips	-	
				50 to surface grout		
					-	