

PROJECT NUMBER	BORING NUMBER
148071.FI.LB	SBLCA-SB-15 (MW-77)

SOIL BORING LOG

PROJECT: LOCATION : Memphis, TN Dunn Field DNAPL Investigation DRILLING CONTRACTOR: Tri-State Testing Services ELEVATION: 304.42 feet MSL (TOC); 304.7 feet MSL (ground) DRILLING METHOD AND EQUIPMENT USED: Hollow Stem Auger 3.25 inch ID

WATER LEVELS: 81.94 feet BTC	OC (01/2001) START:	11/28/2000 END: 11/29/2000 LOGGER:	Bryan Burkingstock
DEPTH BELOW SURFACE (FT)	STANDARD	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)	PENETRATION		
RECOVERY (IN) TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,
#/TYF	PE RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
	6"-6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
	(N)	MINERALOGY.	Corrected FID (ppm):
i i			(Soil headspace)
1 -i i l	Used Continuous CME Sampler	No Recovery	No Sample
l i i l	OME Campion	THE PRODUCTY	No dample
			-
1			_
5			_
60		SILT, brown, dry	0
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1 -!!!!			_
 			
-			_
10			
' -			_
_ 60		SILT, brown, dry	0 _
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1 - i i l			=
l -ii			_
l ī i i			
-i i			-
15			
_ i 60		SILT, brown, dry	0 _
		oier, blown, dry	
1 7 1			
			-
1 ! !			
1 -!!!!			_
20			_
46			0
1 7 1		SILT, brown, dry	_
-i			_
_j i			
-}i]
-i i			_
25			
_ 47		SILT, brown, dry	3.1 _
1 !			-
-}			_
1 ! ! !		SILT, brown, dry	
-! !		5.2., 5.5, 6.,	-
30			_
1 48			10
		SILT, brown transitioning to reddish brown, moist	'' -
<u>-i</u> i			_
1 i i !		Transition begins @ 32 feet bgs SANDY SILT, reddish brown, fine grained	
i		5. 115 . S.E., redulen brown, into granted	-1
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DEPTH BELOW SURFACE (FT)	STANDARD	SOIL DESCRIPTION	COMMENTS
INTERVAL (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"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
	(N)	MINERALOGY.	Corrected FID (ppm):
40		SILTY SAND, brownish red, fine grained SILTY SAND, brownish red, fine grained SAND, reddish yellow to light yellow, fine grained, well sorted	- 0
		@42 feet bgs, with pebbles SAND, light yellow, fine grained, well sorted	- - -
45 - 12 -		With pebbles, subangular SAND, tan transitioning to dark yellow, medium grained Poorly sorted, with pebbles (10%), subangular	0 -
- L 		SAND, dark yellow, fine to medium grained, with pebbles SAND, fine to coarse grained, reddish yellow, poorly sorted	- 0
		With 20% pebbles (< 1/2 inch width), subangular SAND, fine grained, light yellow, well sorted SAND, fine to medium grained, light yellow, well sorted	
55 48 - 48 - - - - - - - - - - - - -		SAND, fine to medium grained, light yellow, well sorted @ 56 feet bgs, three inch GRAVELLY SAND layer SAND, fine to medium grained, yellow, well sorted @ 57 feet bgs, four inch SANDY GRAVEL layer (1/4 to 1 inch width) SAND, fine to medium grained, golden yellow, well sorted SAND, fine to medium grained, light brownish yellow, well sorted With pebbles, subangular	0
60 36		SAND, fine to medium grained, brownish yellow, poorly sorted With pebbles, subangular SAND, fine to coarse grained, light brown / white, poorly sorted	0
-I I 65I I 46I 1 46I		With pebbles, subangular SAND, fine to coarse grained, light brown / white, poorly sorted With pebbles, subangular	4.7
70 44 	Used Continuous CME Sampler	SAND, fine to coarse grained, yellowish red, poorly sorted With pebbles (1/2 to 1 1/2 inch width), subangular SAND, fine to medium grained, reddish yellow to golden Poorly sorted, with pebbles (decreasing with depth), subangular	2.4
- - - 75 _		SAND, fine grained, tan to golden, well sorted	_

LEGEND
FID Flame Ionization Detector
T Time



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WATER L	EVELS :	81.94 fee	et BTOC	(01/2001) START:	11/28/2000 END: 11/29/2000 LOGGER	: Bryan Burkingstock
DEPTH BE	LOW SUR	RFACE (FT)	STANDARD	SOIL DESCRIPTION	COMMENTS
IN	NTERVAL (RECOVER	RY (IN) #/TYPE	PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. Corrected FID (ppm):
i		43		()	SAND, fine grained, brownish red, well sorted	13.2
_I I -I -I 80 _I		24		Decision to 0 feet	SAND, fine grained, brownish red, well sorted ② 80 feet bgs, with pebbles	- - Not Sampled
- _!		24		Begin using 2 foot 2 inch split spoon	SAND, fine to coarse grained, yellow, with pebbles, subangular WATER TABLE @ 81 FEET BGS	No FID below water table
		24		No blow counts were measured.	SAND, fine to coarse grained, brownish yellow With pebbles, subangular	-
85 [i	24			SAND, fine to coarse grained, brownish yellow With pebbles, subangular	-
-[-[-[24			CLAY (@ 87 feet bgs) Light gray with hints of light yellow, stiff, plastic, wet	-
90					BORING TERMINATED @ 88.5 FEET BGS.	_
-						-
95 <u> </u>						-
						-
100						
_						-