

PROJECT NUMBER	BORING NUMBER
148071.FI.LB	SBLCA-SB-2 (VW-1) and MW-73

SOIL BORING LOG

PROJECT: Dunn Field DNAPL Investigation LOCATION : Memphis, TN ELEVATION: 301.2 feet MSL (ground)
DRILLING METHOD AND EQUIPMENT USED: DRILLING CONTRACTOR : Boart-Longyear Hollow Stem Auger 4.25 inch ID

	R LEVELS: None START: 10/16/2000 END: 10/16/2000 LOGGER			Bryan Burkingstock		
			STANDARD	SOIL DESCRIPTION	COMMENTS	
1			PENETRATION			
		RECOVE	RY (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"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
	<u> </u>			(N)	MINERALOGY.	Corrected FID (ppm):
-	 	36		Used Continuous CME Sampler	SILT, brown, dry, compact	(Soil headspace) - 2.5
5	- 	49.5			SILT, brown, moist	- - - 2
- 10	_i 	49.5			SiL1, brown, moist	- - -
-	- - - - 	53			SILT, brown, moist	 - 13.2 - - -
15 - -	_ 	60			SILT, brown, moist	
20		54			SILT, brown, moist	
25 - - -	 	60			SILT, brown until about 28 feet bgs After 28 feet bgs, gradual transition to SANDY SILT Reddish brown, fine grained	93.8
30	 	53			Transition from SANDY SILT to SILTY SAND Reddish brown to red, fine grained	



PROJECT NUMBER	BORING NUMBER
148071.FI.LB	SBLCA-SB-2 (VW-1) and MW-73

SOIL BORING LOG

PROJECT: LOCATION : Memphis, TN Dunn Field DNAPL Investigation ELEVATION: 301.2 feet MSL (ground)
DRILLING METHOD AND EQUIPMENT USED: DRILLING CONTRACTOR : Boart-Longyear Hollow Stem Auger 4.25 inch ID

### Note	DRILLING METHOD A			Hollow Stem Auger 4.2				
NTERVAL (FT)	WATER LEVELS :	None	START:	10/16/2000	END: 10/16/2000	LOGGER :	, ,	
RECOVERY (IN)		E (FT)	STANDARD		SOIL DESCRIPTION		COMMENTS	
(N) MINERALOSY. Corrected FID (ppm): Transition from SILTY SAND to SAND Set, fine grained SAND, medium to coarse, reddish brown (ten) With pebbles (00%), subangular SAND, medium to coarse, reddish brown (ten) With pebbles (10%), subangular SAND, medium, white to yellowish tan 55		OVERY (IN)	TEST RESULTS	MOISTURE CONTENT, F	RELATIVE DENSITY,		DRILLING FLUID LOSS,	
Transition from SULTY SAND to SAND Red, fine grained SAND, medium to coarse, reddish brown (ten) With pebbles (10%), subangular SAND, medium to coarse, reddish brown (ten) With pebbles (10%), subangular SAND, medium, white to yellowish tan SAND, medium, white to yellowish tan SAND, fine to medium. light brown With trace pebbles, subangular SAND, fine to coarse, light brown With trace pebbles, subangular SAND, medium to coarse, light brown With trace pebbles, subangular Used Continuous CME Sampler Used Continuous CME Sampler								
SAND, medium to coarse, reddish brown (tan)	40			Transition from SILTY SAN Red, fine grained SAND, medium to coarse,	reddish brown (tan)			- - -
SAND, medium, white to yellowish tan 55	- - - 45			SAND, medium to coarse,	reddish brown (tan)		376.7	- - -
SAND, medium, white to yellowish tan SAND, medium, white to yellowish tan SAND, fine to medium, light brown 144.7 SAND, fine to coarse, light brown With trace pebbles, subangular SAND, medium to coarse, light brown @ 68 feet bgs, abrupt change from coarse SAND to fine SAND. 226.1 Used Continuous CME Sampler				223332 (1078), 000011	g			- - -
SAND, fine to coarse, light brown With trace pebbles, subangular SAND, fine to coarse, light brown With trace pebbles, subangular SAND, medium to coarse, light brown @ 68 feet bgs, abrupt change from coarse SAND to fine SAND. Used Continuous CME Sampler 271.3	_ - 55 						61.1	-
SAND, fine to coarse, light brown With trace pebbles, subangular SAND, medium to coarse, light brown @ 68 feet bgs, abrupt change from coarse SAND to fine SAND. Used Continuous CME Sampler 271.3	-i i -i i -i i	3		SAND, fine to medium, ligh	t brown		144.7	-
Used Continuous CME Sampler Used Continuous CME Sampler		7		With trace pebbles, subang	ular		194.3	-
70 CME Sampler	1 : :						226.1	_
1 1 1 1 1			CME Sampler	SAND, fine to medium, ligh	t brown		271.3	- - -

EGEND
FID Flame lonization Detector
T Time
Boxed FID results were sampled for analytical results.



PROJECT NUMBER	BORING NUMBER
148071.FI.LB	SBLCA-SB-2 (VW-1) and MW-73

SOIL BORING LOG

PROJECT: Dunn Field DNAPL Investigation LOCATION : Memphis, TN ELEVATION: 301.2 feet MSL (ground)
DRILLING METHOD AND EQUIPMENT USED: DRILLING CONTRACTOR : Boart-Longyear Hollow Stem Auger 4.25 inch ID

WATER	LEVELS	:	None	START:	10/16/2000 END: 10/16/2000 LOGGER	Bryan Burkingstock
DEPTH E	BELOW SU	RFACE (F	Γ)	STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL			PENETRATION		
		RECOVE	RY (IN) #/TYPE	TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS,
			#/117	RESULTS 6"-6"-6"	MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
				(N)	MINERALOGY.	Corrected FID (ppm):
				, ,		
-	i	32			SAND, fine to medium, light brown	-
]	1			or the, fine to mediani, light brown	153.9
					WATER TABLE @ 78 FEET BGS	No FID below water table
_					With those & forcer boo	THO I IS SOLOW WATER TABLE
_		-				-
80		i				_
					No Recovery	
_		0			SAND in shoe of CME sampler	=
_					·	_
						_
-	i — — —	i		Begin using 4 foot		-
85		24		2 inch split spoon	SAND, medium to coarse, wet	_
-		<u>.</u>		No blow counts		_
_		36		were measured.	SAND, medium to coarse, wet	-
		30			onivo, medium to coarse, wet	_
		Ī				
_		ŀ				-
90					SAND, medium to coarse, wet	_
		48				_
		i			CLAY (@ 91.5 feet bgs)	-
		Ī			CLAY (@ 91.5 leet ligs) Light gray with hints of light yellow, stiff, plastic BORING TERMINATED @ 93 FEET BGS.	=
_		ļ			BÔRIÑG TERMINATED @ 93 FEET BGS.	
I						
						1
95						_
_						_
I -						-
-						-
_						_
100						
100 —						_
-						-