

**SOIL BORING LOG**

**CAMP STANLEY STORAGE ACTIVITY**

SITE LOCATION: B13	BORING NUMBER: B13-SB1
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: SWMU CLOSURE	DRILLING CONTRACTOR: CORE TERRA, INC.
LOGGED BY: K. TISCHLER/S. PEARSON	REF. LOGBOOK: 735903
BORING DEPTH (ft-BGL): 12.5	DRILLER: JIMMY MORENO
BORING ELEVATION (ft-MSL): NA	DRILLING RIG: MOBILE B-53
EAST COORDINATE: 538430	DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
NORTH COORDINATE: 3283397	SAMPLING METHOD: 5' SPLIT SPOON
BEGIN DRILLING: 08/27/98 (0910)	END DRILLING: 08/27/98 (1120)

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
0.65/2		X	0	FILL/SILTY CLAY, dark brown (7.5 YR 3/2), plastic, soft, trace of gravel, plant roots and thick piece of string.			Hollow-stem auger and split-spoon sampling to 2'.
2	0/5		0	FILL/CALICHE/LIMESTONE, dark brown (7.5 YR 3/2) and pink (7.5 YR 8/3).			Used drill to punch through.
0.4/1.5			0	FILL/LIMESTONE BOULDER, hard, dry, and wood. No recovery.			Loose fill, minimal recovery.
4			0	FILL/WOOD/LIMESTONE boulder fragments.			
1.1/2			0	FILL/SILTY CLAY/WOOD/LIMESTONE fragments, dry.			
6			0	FILL/CALICHE/WEATHERED LIMESTONE, with some silty clay, dry, friable.			
1.5/2		X	0	WOOD/SILTY CLAY/FILL, wire.			
8			0	CALICHE, pinkish white (7.5YR 8/2), loose, extremely friable, dry, wire embedded in top of caliche.			
1.5/1.5			0	LIMESTONE, white (2.5Y 8/1), hard, brittle, dry, numerous small forams (less than 1/8"). MARL, very pale brown (10YR 8/4), CLAY, damp to moist (at bottom), LIMESTONE GRAVEL, some sand.			Limestone, likely boulder or a ledge.
10	1.9/3		0	LIMESTONE (wackestone/packstone), hard, dry, slight secondary porosity features, pelecypods/bivalves (less than 1/2"), forams (less than 1/8"), gastropods, well preserved (less than 1/2"), no observable replacement to moderate sparry calcite (bivalves) alteration, calcite spar present in voids.			
12		X					
				Total depth = 12.5 feet.			

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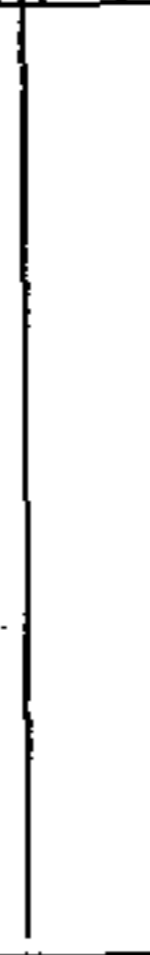
SITE LOCATION: B13	BORING NUMBER: B13-SB2
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: SWMU CLOSURE	DRILLING CONTRACTOR: CORE TERRA, INC.
LOGGED BY: K. TISCHLER/S. PEARSON	REF. LOGBOOK: 735903
BORING DEPTH (ft-BGL): 11.2	DRILLER: JIMMY MORENO
BORING ELEVATION (ft-MSL): NA	DRILLING RIG: MOBILE B-53
EAST COORDINATE: 538391	DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
NORTH COORDINATE: 3283362	SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE
BEGIN DRILLING: 08/27/96 (1305)	END DRILLING: 08/27/96 (1655)

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS GRAPHIC LOG	COMMENTS
		X		FILL		Auger, wingbit used to 1'.
2-0.9/2			0	FILL/SILTY CLAY, caliche, dark grayish brown (10YR 4/2) and very pale brown (10YR 8/2), weak, friable, dry.		Hollow-stem auger and split-spoon sampling to 6.5'.
4-1.5/2			0	FILL/SILTY CLAY, grades into caliche, slightly plastic, expressed in 1-3', at 3-4' the silty clay is slightly more plastic than observed above, dry. FILL/SILTY CLAY, as above, friable, caliche, dry.		
6-0/1.5				FILL, scrap metal (steel) encountered.		Difficulty - auger blocked, coring below.
8-1.9/2.5		X	0	LIMESTONE, powdered, weathered, light brown (7.5YR 6/4), dry.		Air core 6.5-11.2'. Likely powdered by drill bit.
10-2.2/2.2		X		LIMESTONE (wackestone), pink (7.5YR 7/4), conical gastropod (turitella, ~3/4"), bivalves and pelecypods, sparry calcite replacement of some bivalves, vugs, Fe oxide staining along fractures, calcite spar & crystal grown along fractures.		Driller reports difficulties with air circulation - possible voids and/or loose material.
12-				Total depth = 11.2 feet.		

**SOIL BORING LOG**

**CAMP STANLEY STORAGE ACTIVITY**

SITE LOCATION: B13	BORING NUMBER: B13-SB3
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: SWMU CLOSURE	DRILLING CONTRACTOR: CORE TERRA, INC.
LOGGED BY: K. TISCHLER/S. PEARSON	REF. LOGBOOK: 735903
BORING DEPTH (ft-BGL): 9.5	DRILLER: JIMMY MORENO
BORING ELEVATION (ft-MSL): NA	DRILLING RIG: MOBILE B-53
EAST COORDINATE: 538400	DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
NORTH COORDINATE: 3283310	SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE
BEGIN DRILLING: 08/27/98 (1730)	END DRILLING: 08/27/98 (1840)

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
0			0	FILL/SILTY CLAY.		
2-1.5/2	X	X	0	FILL/SILTY CLAY, very dark grayish brown (10YR 3/2) and grayish brown (10YR 5/2), increasing marl content with depth, all marl - weathered limestone at base, plastic at top to brittle at bottom, friable, dry; 2.4' zone appears charred, ashy appearance.		Hollow-stem auger and split-spoon sampling to 4.5'.
4-1.3/1.5			0	SILTY CLAY, as above.		
6-5/5	X	X	0	LIMESTONE (wackestone), pinkish white (7.5YR 8/2), hard, massive, pelecypods/bivalves (< 1/10" to 2"), turitella (~1/2"), small vugs common (< 1/2"), vuggy porosity, occasional dissolution adjacent bivalves - cavities (1-1.5"), sparry calcite fill common, dendritic (3D) feature/fissil in dissolution cavity, Fe oxide staining.		Air core 4.5-8.5'.
10				Total depth = 9.5 feet.		

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**CAMP STANLEY STORAGE ACTIVITY**

SITE LOCATION: B13	BORING NUMBER: B13-SB4
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: SWMU CLOSURE	DRILLING CONTRACTOR: CORE TERRA, INC.
LOGGED BY: K. TISCHLER/S. PEARSON	REF. LOGBOOK: 735903
BORING DEPTH (ft-BGL): 10.4	DRILLER: JIMMY MORENO
BORING ELEVATION (ft-MSL): NA	DRILLING RIG: MOBILE B-53
EAST COORDINATE: 536428	DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
NORTH COORDINATE: 3283282	SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE
BEGIN DRILLING: 08/28/98 (0800)	END DRILLING: 08/28/98 (1540)

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
0	1/1	X	0	CLAY/SILT/GRAVEL, very dark grayish brown, loose, subangular, dry.		Hollow-stem auger and split-spoon sampling to 1'.  HNU inoperative, used FID.
2	0.6/2		37			
4		X		LIMESTONE (wackestone/packstone), very pale brown (10YR 8/2), hard, massive, some Fe oxide staining, no vugs, minor evidence of dissolution, foraminiferas common, calcite spar replacement of shell bivalve (< 1/8"), dry.		Air core 3-10.4'.
6	3.6/5		0			
8				LIMESTONE (wackestone), massive, as above.		
10	2.2/ 2.5	X		LIMESTONE (mudstone), massive, pale yellow (2.5Y 8/2), soft, chalky, forams.		
10.4				Total depth = 10.4 feet.		