Borehole ID: ***HGL35(24MW12B)***

24-MW-12A

Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: 640110.48

Date: 11/18/2002
Geologist: M. Jackson
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 457.75
Easting: 1768360.579

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
		Sand with silty clay and gravel Pale yellowish brown, 80% medium grained sand, 15% silty clay, 5% gravel, fill	fill	455					
2									
4			SP	453					
6		***Poorly graded sand*** Pale yellowish brown, moist to slightly moist, loose, soft, 98% medium grained sand, 2% gravel	CL		100	4/5/7	3.2		
8				448					
10		***Silty clay*** Dark yellowish brown with dark yellowish orange mottling, moist, plastic, 80% clay, 20% silt	SM		100	15/34/40	4.8		
12									
14									
16		***Sandy silt*** Grayish black with dusky blue green mottling (10%), moist, slightly stiff, 80% silt, 20% medium grained sand	SP	440	100	17/32/34	2.7		
18									
20		***Poorly graded sand*** Pale yellowish brown with a hue of grayish blue green, very moist, soft, 100% medium grained sand with trace clay clayey sand lense from 19.5' to 20.5'	SC	437	100	22/41/50 for 2"	3.6	▼	Normally shallow zone does not exist here.
22			SM						
24									1325 Set shallow temporary well at 25'. (May be infiltration from fire hydrant. Hydrant has been in constant use due to IRP Site 20 construction.)
26		***Silty sand*** Pale yellowish brown, very moist to saturated, soft, 80% medium grained sand, 20% silt clayey sand lense from 25.5' to 26.5'	SC	431	100	21/31/31	2.1		
28			SP						
30					90	21/50/50	1.6		
32		***Poorly graded sand*** Pale yellowish brown with iron oxide staining (5%), very moist, moderately dense, 100% fine grained sand							
34				422				▼	
36			SC	421	100	12/23/33	2.5		Set intermediate temporary well at 36.5'.
38		***Clayey sand*** Pale yellowish brown, moist, dense, 75% fine grained sand, 25% clay	SP						
40					90	19/45/50 for 5"	4.5	▼	

Drilled By: Layne Christensen
Drill Method: Dual Tube Percussion
Drilling Equipment: AP-1000
Sampling Equipment: CA Mod Split Spoon

HydroGeoLogic, Inc.
4600 Northgate Blvd., Suite 207
Sacramento, CA 95834
(916) 614-8770 FAX (916) 614-8775

Boring Diameter: 10"
Total Depth Drilled: 75'
Sheet: 1 of 2

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Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
		Poorly graded sand Pale yellowish brown, saturated, soft, 100% medium grained sand	SP		90				
42									
44									
46					100	16/43/48	1.3		
48		unit becomes 100% medium grained sand with trace small gravel (chert) and very moist to saturated at 50'							
50					30	24/50 for 5"	1.5		
52		unit becomes saturated at 55'							
54									
56					100	15/23/27	2.0		
58		clay with sand lense from 57' to 58.5'	SC	399					
		Clayey silt Pale yellowish brown with 20% iron oxide staining, moist, moderately stiff, low plasticity, 80% silt, 20% clay	ML						
60					100	11/15/20	1.5		
62				395					
64		***Sand with silt*** Pale yellowish brown, moist to very moist, soft, 90% fine grained sand, 10% silt	SM						
66			SC	391	100	15/27/20	1.0		
68		clayey sand lense from 65.5' to 66.5'	SP						
70		***Sand with gravel*** Pale yellowish brown, moist to very moist, loose, 80% coarse sand, 20% gravel (angular to subrounded, variegated, largest 5 mm x 2 mm)			100	16/31/30	1.9		
72									
74		unit becomes very moist to saturated at 68.5'							
76				381	100	21/40/50	2.8		Boring converted to deep well 24MW12B. Well 24MW12A placed adjacent to this boring.
78		minor lense of silty clay at 71' cobble zone from 74'-75' (subrounded)							
80									

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