HYDRO GeoLogic INC.

Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: 640109.334

Borehole ID: HGL34(24MW11B)
Date: 11/18/2002 24-MW-11A
Geologist: M. Jackson 24-PMW-11
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 458.23
Easting: 1768245.497

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
		Sandy silty clay Medium gray (silty clay) and pale yellowish brown (sand), very moist, plastic, 55% silty clay, 40% medium grained sand, 5% cobbles, fill	fill	454					
2									
4			SP						
6		***Poorly graded sand*** Dark yellowish brown, moist, soft, 100% medium grained sand			70	7/7/18	2.3		
8									
10		unit becomes dark yellowish orange and very moist at 5'			90	26/32/34	3.7		
12		lense of clayey sand from 12'-13.5' (medium gray, moist, slightly dense)	SC						
14			SP						
16		unit becomes saturated at 15'			100	25/35/37	2.6	▼	
18									
20		lense of silty clay from 20.5' to 22.5' (brownish gray, moist, moderate plasticity)			100	24/34/21	2.6		
22			CL						1010 Set shallow temporary well at 19.5', above silty clay.
24			SP						
26					100	23/38/50 for 5"	2.4	▼	
28		unit becomes saturated at 26'							
30					100	31/46/35	2.8		
32		lense of sand with clay from 30.5' to 32.5' (pale yellowish brown, moderate dense)	SC						
34			SP						
36		unit becomes saturated at 35'			100	19/31/50 for 5"	3.7	▼	Temporary well set at intermediate zone just below and screened across clayey sand at approximately 40'.
38		lense of clayey sand from 38'-39'	SC						
40			SP	418	80	12/37/50 for 4"	2.4		

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: 66'
Sheet: 1 of 2

Borehole ID: *HGL34(24MW11B)*

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SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
			SP		80				
42									
44									
46					50	32/50 for 4"	0.5		
48									
50					20	49/50 for 5"	0.7		
52									
54									
56		iron oxide staining at 55' (10%)			90	8/20/34	1.8		
58		unit becomes coarse grained sand at 60'							
60		unit becomes medium grained sand at 60.5'			70	9/34/50 for 1"	1.4		Outside of split spoon sampler wet.
62				395					
64		***Clay with silt*** Pale yellowish brown mottled with dark yellowish orange (20%), moist, stiff, low plasticity, 85% clay, 15% silt	CL						Set temporary deep well at 66'.
66				392					
68									
70									Converted boring to deep well 24MW11B. Wells 24PMW11 and 24MW11A placed adjacent to this boring.
72									
74									
76									
78									
80									

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