HYDRO GeoLogic INC.

Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: 640085.062

Borehole ID: HGL27(24MW9B)
Date: 10/31/2002
Geologist: M. Jackson
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 460.29
Easting: 1768121.187

24-PMW-9
24-MW-9A

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
2, 4, 6		***Sand*** Moderate yellowish brown, moist, soft, 80% Medium fine grained sand with sand , 20% gravel (angular)	Fill	453	5	32/24/26	1.6		Appear to have pushed rock in 5'-6.5' sample.
8, 10, 12, 14		***Poorly graded sand*** Dark yellowish orange with pale yellowish brown mottling, moist, soft, 100% fine grained sand	SP	445	60	50/50 for 4"	1.5		
16, 18		***Sand with silt*** Pale yellowish brown, moist, medium dense, 90% fine grained sand, 10% silt minor lenses (thin) of clayey sand to approximately 18'	SM	441	90	43/39/50 for 5"	1.6		
20			SP	439	90	27/41/39	1.9		
22, 24		***Poorly graded sand*** Pale yellowish brown with dark yellowish orange mottling, moist, soft, 100% fine grained sand, trace silt minor lense of clayey sand at 19.5'-19.7'	SC	435					10/31/02 1540 Set temporary well at 21'. Insufficient water to sample shallow zone.
26			SP		100	33/50/50 for 5"	1.3		
28, 30		***Sand with clay*** Pale yellowish brown to pale brown, moist, medium dense, 85% fine grained sand, 15% clay			100	41/41/48	1.6		
32, 34, 36, 38		***Poorly graded sand*** Pale yellowish brown, very moist, dense, 85% medium grained sand, 15% clay (clay in small lenses, medium plasticity, medium dark gray, unit becomes 95% medium grained sand and 5% clay at 35'		422	80	24/30/40	1.0		
40			SC		80	30/50 for 4"	2.1		11/1/02 0840 Temporary well set at 39'. Near top of sand with clay.

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: 65'
Sheet: 1 of 2

Borehole ID: ***HGL27(24MW9B)***

Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: 640085.062

Date: 10/31/2002
Geologist: M. Jackson
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 460.29
Easting: 1768121.187

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
		Clayey sand Pale yellowish brown mottled with dark yellowish orange, moist, hard, 80% medium grained sand, 20% clay	SC	419	80				
42			SP						
44									
46		***Poorly graded sand*** Pale yellowish brown, moist to very moist, soft, 100% coarse sand			90	50/50 for 4"	4.1		
48									
50		unit became medium sand and saturated at 45'			90	29/48/50 for 3"	3.5		
52									
54		seam of variegated gravel (0.4 mm x 0.3 mm) at 48'							
56		unit became 95% fine grained sand with 5% gravel (variegated, 4 mm x 2 mm) at 50'			100	25/42/50 for 5"	3.9		
58									
60					100	20/40/50 for 5"	3.5		
62		unit became 100% medium sand at 60'							
64				395					
66		***Clay with silt*** Olive gray, moist, stiff, low plasticity, nodules of carbon in clay, 95% clay, 5% silt	CL		100	17/25/50 for 3"	2.1		1005 Set temporary well at 65', above clay unit.
68									
70									
72									Boring converted to deep well 24MW9B. Permanent monitoring wells 24PMW9 and 24MW9A placed adjacent to this boring.
74									
76									
78									
80									

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: 65'
Sheet: 2 of 2