HYDRO GeoLogic INC.

Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: 640198.345

Borehole ID: HGL39(24MW15B)
24-MW-15A
Date: 12/7/2002
Geologist: M. Jackson
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 459.20
Easting: 1768146.741

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
2, 4		***Silty sand with clay and gravel*** Pale yellowish brown to dark brown, moist, dense, 60% sand, 20% silt, 10% clay, asphalt initial 6", fill	fill	454					
6, 8, 10, 12, 14		***Poorly graded sand*** Pale yellowish brown to dark yellowish orange, moist, soft, 100% medium grained sand with trace gravel	SP	445	50	19/22/6	7.6		
					80	45/50/50 for 3"	3.8		
16, 18, 20		***Sand with clay*** Pale yellowish brown (sand) to medium gray (clay), moist, moderately dense, 95% medium grained sand, 5% clay (white chert sand grains within clay matrix)	SC	443	100	39/50/50 for 3"	3.6		Shallow zone water not encountered.
22, 24, 26, 28, 30, 32, 34, 36, 38, 40		***Poorly graded sand*** Pale yellowish brown, moist, soft, 100% medium grained sand unit contains trace silt and clay and is moderately dense at 25' unit becomes very moist at 35' unit becomes saturated to very moist at 40'	SP	419	60	30/50 for 4"	7.0		
					100	14/38/43	6.5		
					60	26/50 for 4"	3.8		
					100	19/42/50	5.5		
					90	23/27/45	6.7	▼	Set temporary well at 40'.

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: 71'
Sheet: 1 of 2

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SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	Water Level	Remarks
					90				
42		***Sand with clay*** Pale yellowish brown with iron oxide staining (10%), moist, dense, 90% medium grained sand, 10% clay (white chert sand grains within clay matrix)	SC	417					
44			SP						
46					60	22/50 for 5"	3.7		
48		***Poorly graded sand*** Pale yellowish brown, moist to very moist, soft, 100% medium grained sand							
50					70	25/38/50 for 4"	4.2		
52		unit becomes very moist with trace coarse sand (black chert) at 50'							
54		unit becomes very moist to saturated and 100% medium grained sand at 55'							
56					40	18/50 for 5"	5.2		
58									
60		unit becomes saturated at 60'			100	10/45/50 for 3"	4.0	▼	
62		unit contains 5% small gravel (black/red chert, 5 mm x 2 mm, subrounded) at 63'							
64									
66					100	10/16/24	4.1		
68				390					1420 Set temporary well at 69.5', above silty clay unit.
70		***Silty clay*** Olive gray, moist, stiff, low plasticity, 70% clay, 30% silt	CL	388	100	12/25/50 for 3"	4.0		1450 Collect goundwater samples (HGL39-GW70).
72									
74									
76									Boring converted to deep well 24MW15B. Well 24MW15A placed adjacent to this boring.
78									
80									

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