JACOBS ENGINEERING

BOREHOLE LOG

Project Name: VANDENBERG AFB IRP: OU 2, Site 20, Landfill 1/Drum Disposal Site 1		
Project Number: 01K78601	**Borehole No.:** 20-MW-17	**Sheet** 1 of 3
Borehole Location: 2100155.52 N, 5802213.53 E		**Elevation and Datum:** 455.54 feet MSL
Drilling Contractor: Tri-County Drilling, Inc.	**Date Started:** 06/01/98	**Date Ended:** 06/01/98
Drilling Equipment: CME-75	**Total Depth:** 90 feet	**Groundwater Depth:** NA
Drilling Method: Hollow Stem Auger	**Sampling Method:** Split Spoon	**Borehole Diameter:** 11 inches
Driller: J. Sauer	**Borehole Abandonment:** Completed as 4" monitoring well	
Hammer Information: Manual Hammer: 140-lb and 30-inch drop	**Logged By:** D. Peeler	**Checked By:** M. Anderson

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
	GRAVELLY SILT, pale brown (10YR 6/3), dry, loose, with some angular shale gravel up to 2".		ML				0	Road base to 2 feet.
	CLAY, pale brown (10YR 6/3), dry, loose, with little sand and trace gravel.		CL					
5	Same as above, brown (10YR 5/3), slightly moist.		CL				0	
10								
	CLAYEY SAND, dark yellowish brown (10YR 4/6), moist, fine to medium grained, loose, soft, nonplastic, with some clay.		SC				0	
15	Same as above, olive brown (2.5Y 4/3), soft, with little clay		SC				0	
20							0	
	CLAYEY SAND/SANDY CLAY, olive brown (2.5Y 4/3), moist, soft, low plasticity.		SC/CL					
25	Same as above, firm.		SC/CL				0	
	CLAYEY SAND, olive brown (2.5Y 4/3), moist, fine to medium grained, firm, low plasticity, with some clay and little, subrounded gravel to 3/4".		SC					
30								

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Project Number: 01K78601 | **Borehole No.:** 20-MW-17 | **Sheet** 2 of 3

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
	Same as above, soft to firm, medium plasticity.		SC				0	
35	SANDY CLAY, olive brown (2.5Y 4/4), moist, soft, medium to high plasticity, with fine to medium sand (35%) and gravel (<5%).		CL				0	
	Same as above, with trace gravel.		CL					
40	Same as above, with angular, shale gravel up to 3/4" (5%).		CL				0	Harder drilling.
45	Same as above, with increasing gravel (20%).		CL				0	Very hard drilling.
50	Same as above, wet, loose, soft, with little sand and rounded chert and shale gravel (<10%).		CL				0	
55	Same as above, soft, high plasticity, with trace gravel.		CL				0	
	ROCK, very dark grayish brown (10YR 3/2), highly fractured, laminated, moist, with fine sand (10%) and trace, fine, angular shale gravel.		RX					Gradational contact with weathered, fractured bedrock.
60							0	Slightly easier drilling.
65	ROCK, very dark grayish brown (10YR 3/2), slightly moist, with coarse, angular, sand-sized shale fragments (<5%) and trace, rounded gravel.		RX				0	
70	Same as above, with increasing sand (<10%) and gravel (<5%).		RX					

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Project Number: 01K78601 | **Borehole No.:** 20-MW-17 | **Sheet** 3 of 3

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
	Same as above, with thin, angular chert fragments/siliceous lenses up to 2" across.		RX				0	
75							0	
								Hard drilling.
80							0	Easier drilling.
85							0	
90							0	
	End of boring at 90 feet below ground surface. Groundwater not encountered. Boring completed as 4" monitoring well.							
95								
100								
105								
110								