

Brown and Caldwell

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds

Project Number: 136742

Soil Boring:

Monitoring Well:

Piezometer:

Boring/Well Name: OU4-LEP-05

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Boring Location: OU4 Lined Evaporation Ponds		Northing: 1555523.6	Easting: 322937.39
Drilling Contractor: WDC		Top of PVC Elevation: Ground Surface Elevation: 4350.12 feet amsl	
Drilling Equipment: Geoprobe		Date Started: 10-07-08	Date Finished: 10-07-08
Drilling Method: Direct-Push		Completed Depth: 25 ft bgs	Water Depth: 16 ft bgs
Sampling Method: Continuous Core		Driller: Rick Smedley	
Well Seal: N/A		Borehole Diameter: 2"	
Logged By: P. Bassett		Drilling Fluid: N/A	
WELL CONSTRUCTION			
		Type and Diameter of Well Casing: N/A	
		Slot Size: N/A	Filter Material: Cement grout

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
5	4350	ML	SILT (Pond Sediments) (0 - 0.5) Moist, yellow.						Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System. Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet. Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line. All depths are below land surface unless stated otherwise. Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples. Type 2 Samples are representative of meteoric water mobility soil samples.
		GW	GRAVEL with sand and silt (VLT Subbase) (0.5 - 1.5) VLT Subbase consists of 3/4"-minus crushed rock. Overlaid by thin, asphalt liner. Saturated.						
		SM	Silty Sand (Native Soil) (1.5 - 7) Dense and compact. Sand is well-graded. Some zones are soft and greasy. Sample: <u>OU4-LEP-05A-SC</u> from 3-7 feet. Sample: <u>OU4-LEP-05A-SG</u> from 8-10 feet. Sample: <u>OU4-LEP-05A-MW</u> from 3-15 feet. Composite sample from 2 boreholes spaced 6 inches apart.	OU4-LEP-05A-SC					
10	4345	CH	Fat CLAY (7 - 10) Hard.						
	4340	SM	Silty SAND (10 - 15) Dense, moist and sand is well-graded. Sample: <u>OU4-LEP-05B-SC</u> from 12-15 feet.	OU4-LEP-05A-SG		OU4-LEP-05A-MW			
				OU4-LEP-05B-SC					

