

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-04

Sheet 1 of 2

Boring Location: OU4 Lined Evaporation Ponds		Northing: 1556403.84	Easting: 323641.1
Drilling Contractor: WDC		Top of PVC Elevation: Ground Surface Elevation: 4359.14 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: 17 ft bgs
Sampling Method: Continuous Core		WELL CONSTRUCTION	
Driller: Rick Smedley		Type and Diameter of Well Casing: N/A	
Well Seal: N/A		Borehole Diameter: 2"	Filter Material: Cement grout
Logged By: P. Bassett		Drilling Fluid: N/A	Slot Size: N/A

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	4355	ML	SILT (Pond Sediments) (0 - 0.5) Dry, yellow.						<p>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.</p> <p>Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.</p> <p>Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.</p> <p>All depths are below land surface unless stated otherwise.</p> <p>Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples.</p> <p>Type 2 Samples are representative of meteoric water mobility soil samples.</p>
		GW	GRAVEL with sand and silt (VLT Subbase) (0.5 - 1.5) VLT Subbase is 3/4"-minus crushed rock. Overlaid by thin, asphalt liner. Saturated.						
		SM	Silty Sand (Native Soil) (1.5 - 10) Sample: <u>OU4-LEP-04A-SC</u> from 3-8 feet. Sample: <u>OU4-LEP-04A-SC-FD</u> from 3-8 feet (Duplicate).						
		SP	SAND (10 - 12) Loose, medium- to coarse-grained sand and poorly graded. Sample: <u>OU4-LEP-04B-SC</u> from 11-16 feet.						
10	4350	SM	Sample: <u>OU4-LEP-04B-SC-FD</u> from 11-16 feet (Duplicate). Silty SAND (12 - 16)						
		SP	SAND (16 - 19) Loose, medium-grained and poorly graded. Saturated at 17 feet.						
15	4345	SM	Silty SAND (19 - 22)						
		SP							
	4340								

