Brown and Caldwell

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds **Project Number:** 136742

Soil Boring: [X] Monitoring Well: [ ] Piezometer: [ ] **Boring/Well Name:** OU4-FEP-17 **Sheet** 1 **of** 2

Boring Location: OU4 Finger Evaporation Ponds	**Northing:** 1552612.19 **Easting:** 321131.72
Drilling Contractor: Cascade	**Top of PVC Elevation:** **Ground Surface Elevation:** 4395.07 feet amsl
Drilling Equipment: CME-75 Auger	**Date Started:** 10-28-08 **Date Finished:** 10-29-08
Drilling Method: Hollow Stem Auger	**Completed Depth:** 70 ft bgs **Water Depth:** N/A ft bgs
Sampling Method: Split Spoon **Driller:** Tori	WELL CONSTRUCTION
Well Seal: N/A **Borehole Diameter:** 8"	**Type and Diameter of Well Casing:** N/A
Logged By: C. Haley **Drilling Fluid:** 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
		ML	**SILT (Pond Sediments) (0 - 0.5)** Dry, yellow. Becomes moist at 0.3 feet.						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.
		SM	**Silty SAND (Native Soil) (0.5 - 25)** Sample: OU4-FEP-17A-SC from 2-3.5 feet.	OU4-FEP-17A-SC	X				Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.
5	4390								Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.
10	4385								All depths are below land surface unless stated otherwise.
15	4380								Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples.
20	4375								Type 2 Samples are representative of meteoric water mobility soil samples.
25	4370	SM	**Silty SAND with gravel (25 - 70)** Increasing gravel content with gravel up to 1 inch diameter from 25-30 feet. At 70 feet, refusal due to very hard ground (unable to penetrate). No deep soil sample collected and no groundwater sample.						
30	4365								
35	4360								

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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
45	4350								
50	4345								
55	4340								
60	4335								
65	4330								
70	4325		Bottom of Borehole at 70 feet below ground surface.						
75	4320								
80	4315								
85	4310								
90	4305								