## Log of Boring No. BRC-SB-14-A **Basic** Remediation **BMI Site - Hydrogeologic Characterization** Henderson, Nevada Drilling Method: Rotary Sonic Borehole Total Depth: 108.5 ft bgs Drilling Equipment: Rotary Sonic **Borehole Diameter:** 8.5 in Drilling Contractor: Prosonic Corporation Boring Location: Location 14 (Well ID: AA-14) Driller: Gerardo Chavez Depth to Water (ft. bgs): 38 ft bgs $\bigtriangledown$ Sample Type: Split spoon **Monitoring Well Construction** Sample Interval Screen Slot Size: 0.010 in Type of Surface Seal: Bentonite Grout Logged By: Adam Norris Blank Casing Type/Size: 4" Sch 80 PVC Top of Screen (ft. bgs): 38 ft bas Date Started: 6/15/04 Screen Type/Size: 4" Sch 80 PVC Bottom of Screen (ft. bgs): 58 ft bgs Date Completed: 6/15/04 Transition Sand Type: N/A Type of Sand Pack: #2 x 12 **Geophysical Data** Sample Retained for Analysis Sample Recovery Depth Elevation (BGS) E-Log Sample Interval Sample Type

Soil Description

Lithology

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0 1 5/1 5 Grah 0.0 Lockina SM: Silty sand with gravel, grayish brown (10YR 5/2), dry, angular to monument subrounded sand, nonplastic silt, subangular to subrounded, fine to well box 0.0 coarse volcanic gravel (up to 3" long). Approximately 25% gravel, 5% coarse sand, 20% medium sand, 35% fine sand, and 15% silt. with concrete MÍM 0.0 apron and Collected BRC-SB-14-A-0 for chemical analysis. ballards 0.0 0.0 0.0 Silty sand with gravel, grayish brown (10YR 5/2), dry, angular to Cement subrounded sand, nonplastic silt, subangular to subrounded fine to Bentonite coarse volcanic gravel (up to 3" long). Approximately 25% gravel, 10% coarse sand, 20% medium sand, 30% fine sand, and 15% silt. Grout 0.0 Grab 1.5/1.5 0.0 Collected BRC-SB-14-A-7 for chemical analysis. Silty sand with gravel, light yellowish brown (10YR 6/4), dry, subangular 0.0 to subrounded sand, nonplastic silt, subangular to subrounded line to coarse volcanic gravel (up to 2" long). Approximately 20% gravel, 5% 0.0 coarse sand, 20% medium sand, 40% fine sand, and 15% silt. -10 0.0 4" Blank PVC Riser Pipe 0.0 0.0 Silty sand with gravel, grayish brown (10YR 5/2), dry, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volcanic gravel (up to 2" long). Approximately 25% gravel, 10% coarse sand, 20% medium sand, 30% fine sand, and 15% silt. 0.0 0.0 0.0 Silty sand with gravel, light vellowish brown (10YR 6/4), drv, subangular to subrounded sand, nonplastic sitt, subangular to subrounded fine to coarse volcanic gravel (up to 3" long). Trace local volcanic cobbles (up 0.0 to 4" long). Approximately 20% gravel, 5% coarse sand, 20% medium sand, 40% fine sand, and 15% silt. Collected BRC-SB-14-A-17 for chemical analysis. 1.5/1.5 0.0 Grab 0.0 0.0 Gravelly silty sand, pale brown (10YR 6/3), dry, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volcanic gravel (up to 3" long). Trace local volcanic cobbles (up -20 0.0 to 4" long). Approximately 30% gravel, 10% coarse sand, 20% medium sand, 25% fine sand, and 15% silt. 0.0 0.0 0.0 Silty sand with gravel, pale brown (10YR 6/3), dry to moist, subangular to subrounded sand, nonplastic silt, subangular to subrounded fine to coarse volcanic gravel (up to 3" long). Approximately 25% gravel, 10% coarse sand, 20% medium sand, 30% fine sand, and 15% silt. 0.0



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**Well Construction** 

(MHO)

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(MHO)

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(MHO)

<u>"9</u>

Caliper Log

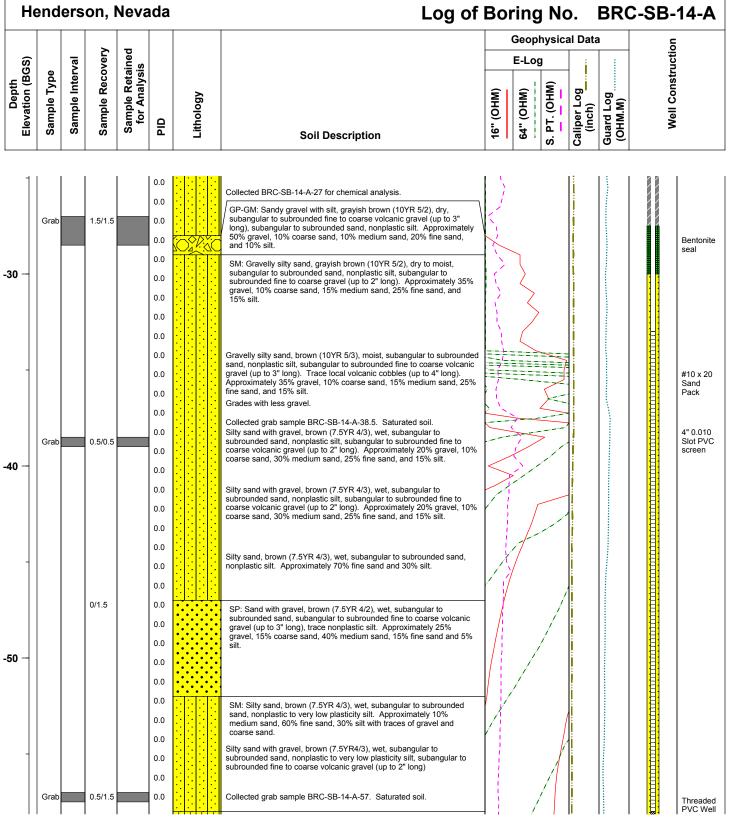
(inch)

Guard Log

(M.MHO)

## **BMI Site - Hydrogeologic Characterization**





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**BMI Site - Hydrogeologic Characterization Basic** Remediation Henderson, Nevada Log of Boring No. BRC-SB-14-A **Geophysical Data** Well Construction Sample Retained for Analysis Sample Recovery E-Log Elevation (BGS) Sample Interval Sample Type Depth (MHO) Caliper Log (MHO) (MHO) Guard Log Lithology (M.MHO) (inch) Е. 뎹 <u>"9</u> . . . Soil Description ю 0.0 Base Cap ML: Silt, pale brown (10YR 6/3), moist, very stiff, nonplastic to low plasticity fines. Approximately 10% fine sand, 90% silt, and a trace of 0.0 clay. -60 0.0 0.0 Silt, light yellowish brown (2.5 Y 6/3), moist, very stiff, nonplastic to low plasticity fines. Approximately 5% fine sand, 90% silt, and 5% clay. 0.0 0.0 0.0 Silt with clay, light olive gray (5Y 6/2), moist, very stiff, nonplastic to low plasticity fines. Approximately 90% silt, 10% clay and a trace of fine 0.0 sand. 0.0 0/1.5 0.0 No recovery on chem sample attempt - all slough. 0.0 Clayey silt, brown (7.5YR 5/4), moist, stiff to very stiff, nonplastic to low plasticity fines. Approximately 5% fine sand, 65% silt, 30% clay and a trace of medium sand. 0.0 Becomes pale yellow (5Y 8/2) at approximately 69.5' bgs. -70 0.0 0.0 Cement Backfill 0.0 Clayey silt, light gray (5Y 7/2), moist, very stiff, nonplastic to low plasticity fines. Approximately 85% silt, 15% clay and a trace of fine 0.0 sand 0.0 0.0 Clayey silt, brown (7.5YR 5/4), moist, very stiff to hard, very low to low plasticity fines. Approximately 65% silt and 35% clay. 0.0 1.5/1.5 Collected BRC-SB-14-A-77 for chemical analysis. Grab 0.0 0.0 0.0 -80 Clayey silt, brown (7.5YR 5/4), moist, very stiff to hard, very low to low 0.0 plasticity fines, trace local gypsum. Approximately 80% silt and 20% 0.0 clay. 0.0 0.0 0.0 Silt with clay, light gray (5Y 7/2), moist, hard, nonplastic to low plsticity fines. Approximately 90% silt and 10% clay. 0.0 0.0 Clayey silt, brown (10YR 5/3) to white (10YR 8/1), moist, stiff to hard, some local gypsum, nonplastic to low plasticity fines. Approximately 5% fine sand, 75% silt, and 20% clay. Collected BRC-SB-14-A-87 for characterized reachers. Grab 1.5/1.5 0.0 0.0 chemical analysis. 0.0 -90 Silt with clay, light gray (7.5Y 9/2), moist, hard, nonplastic to low plasticity fines, trace local gypsum. Approximately 90% silt, 10% clay 0.0 0.0 and a trace of fine sand.

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	Henderson, Nevada Log of Boring No. BRC-SB-14- Geophysical Data _														
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Depth Elevation (BGS)	e	Sample Interval	Sample Recovery	Sample Retained for Analysis	DIA			Soil Description	E-Log		g	- i		truct	
	Sample Type					Lithology				16" (OHM)	64" (OHM)	S. PT. (OHM)	Caliper Log (inch)	Guard Log (OHM.M)	Well Construction
					0.0										
					0.0										
					0.0										
1					0.0				Clayey silt, gray (5Y 6/1), moist, hard, nonplastic to low plasticity fines, some local gypsum. Approximately 80% silt and 20% clay.				ļ		Cemer Backfil
					0.0				Becomes grayish brown (10YR 6/2) at approximately 96.5' bgs.						
					0.0				Sandy silt, pale brown (10YR 6/3), moist, partly indurated to moderately cemented, nonplastic silt, subangular to subrounded sand. Approximately 35% fine sand and 65% silt.						
					0.0 0.0				Approximately 55 % line said and 65 % site.						
> -					0.0								ļ		
					0.0										
					0.0				Clayey silt, grayish brown, (10YR 5/2), moist, hard, partly indurated, nonplastic to low plasticity fines, some local gypsum. Approximately						
					0.0				5% fine sand, 70% silt, and 25% clay.						
					0.0								ļ		
					0.0				Clayey silt, brown (10YR 5/3), moist, hard, nonplastic to low plasticity						
					0.0				fines, some local gypsum. Approximately 70% silt and 30% clay.						
	Grab		1.5/1.5		0.0				Collected BRC-SB-14-A-107 for chemical analysis.						



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