

Date: March 2008

Atlantic Richfield  
Company

Project: 134557

**Well B/W-28D  
Construction Details**

# Brown and Caldwell

Carson City, Nevada

## BORING LOG

Project Name: Yerington Second Step Hydrogeologic Framework Assessment

Project Number: 132025

Soil Boring:  Monitoring Well:  Piezometer:

Boring/Well Number: B/W-28D

Sheet **1** of **11**

<b>Boring Location:</b> North side of road, one mile west on Amanett Way		<b>Northing:</b>	<b>Easting:</b>
<b>Drilling Contractor:</b> Boart Longyear	<b>Driller:</b> R. Salois	<b>Top of PVC Elevation:</b> feet amsl	
<b>Drilling Equipment:</b> GP24-300RS	<b>Borehole Diameter:</b> 6-inches	<b>Ground Surface Elevation:</b> feet amsl	
<b>Drilling Method:</b> Sonic	<b>Drilling Fluid:</b> Water	<b>Date Started:</b> 6/15/07	<b>Date Finished:</b> 6/27/07
<b>Sampling Method:</b> Core Barrel		<b>Completed Depth:</b> 199 fbgs	<b>Water Depth:</b> fbmp
<b>Well Seal:</b> Bentonite and Cement		<b>WELL CONSTRUCTION</b>	
<b>Logged By:</b> C. Gardner, P. Spillers and C. Strauss		<b>Type and Diameter of Well Casing:</b> 2-inch Schedule 80 PVC	
		<b>Slot Size:</b> 0.010 inch	<b>Filter Material:</b> #10-20 Silica Sand

Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
5		SP	<b>Poorly Graded Sand with Gravel (0 - 1)</b> Dry, loose, no odor. Primarily medium to coarse sand with ~15% gravel up to 100 mm and ~10% silt and clay. The sand and gravel are angular to subangular.					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.  <b>WELL DESIGN for B/W-28D:</b> PVC Stickup: feet Cement - Bentonite Grout: 0 - 139 feet Bentonite Chips: 139 - 145 feet No. 60 Silica Sand: 145 - 147 feet #10-20 Silica Sand Filter Pack: 147 - 172.8 feet 2-inch Nominal Schedule 80 PVC 0.010 Slotted Screen: 150 - 170 feet Native Collapse: 187 - 199 feet Additional Bentonite Fill: 172.8 - 187 feet
		SP	The fines are nonplastic, and have a strong reaction to HCl. Zone has a few 100 mm pieces of granite at surface.					
				<b>Poorly Graded Sand (1 - 7.5)</b> Dry, loose, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.				
			SP	<b>Poorly Graded Sand with Gravel (7.5 - 9)</b> Dry, loose, no odor. Primarily coarse to fine sand with ~15% gravel to 50 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.				
			SM	<b>Silty Sand (9 - 10)</b> Dry, loose, no odor. Primarily medium to fine sand with ~5% coarse sand and gravel to 5 mm and ~25% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.				
			SW-SM	<b>Well-Graded Sand with Silt and Gravel (10 - 13.5)</b> Dry, loose, no odor. Primarily coarse to fine sand with ~20% gravel to 30 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak to strong reaction to HCl.				
10		SP-SM	<b>Poorly Graded Sand with Silt (13.5 - 15)</b> Dry, loose, no odor. Primarily medium to fine sand with ~5% gravel to 25 mm and ~15% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic,					
							Number of wells at this location: 3 Screen intervals for paired wells are labeled at the installed depths.	

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
		SP-SM	and do not react to HCl. <b>Poorly Graded Sand with Silt (15 - 17.5)</b> Dry, loose, no odor. Primarily medium to fine sand with ~10% gravel to 25 mm and ~10% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SM	<b>Silty Sand (17.5 - 20)</b> Dry, medium dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.					
20		SP	<b>Poorly Graded Sand (20 - 23)</b> Dry, loose, no odor. Primarily medium to fine sand with ~25% gravel to 80 mm and ~5% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
		SP-SM	<b>Poorly Graded Sand with Silt and Gravel (23 - 25)</b> Dry, loose, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
25		SM	<b>Silty Sand (25 - 29.5)</b> Dry, medium dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
		SM	<b>Silty Sand (29.5 - 30.5)</b> Dry, dense, no odor. Primarily medium to fine sand with a maximum grain size of 1 mm and ~30% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
		SM	<b>Silty Sand (30.5 - 32)</b> Dry, dense, no odor. Primarily medium to fine sand with ~5% gravel to 25 mm and ~15% silt and clay. The gravel is angular to subangular and the sand is subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
30		SW	<b>Well-Graded Sand (32 - 34)</b> Dry to moist, dense, no odor. Primarily medium to fine sand with trace coarse sand up to 4 mm and ~10% silt and clay. The sand is subangular to subrounded.					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
35		SM	<p>The fines are nonplastic, and do not react to HCl.</p> <p><b>Silty Sand with Gravel (34 - 38.5)</b>                      Dry to moist, dense, no odor. Primarily medium to coarse sand with ~15% gravel to 40 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a weak reaction to HCl.</p>					
40		SC	<p><b>Clayey Sand (38.5 - 39)</b>                      Dry, dense, no odor. Primarily medium to fine sand with trace coarse sand to 4 mm and ~35% silt and clay. The sand is subangular to subrounded. The fines have medium plasticity and toughness, and do not react to HCl.</p>					
40		SM	<p><b>Silty Sand with Gravel (39 - 49)</b>                      Dry to moist, dense, no odor. Primarily medium to coarse sand with ~15% gravel to 40 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl. Zone is dry from 38-44.5 feet, moist from 44.5-48.5 feet, and saturated at 48.5 feet.</p>					← B/W-28S screened from 40 - 60 feet.
45								
50		SP	<p><b>Poorly Graded Sand (49 - 51.5)</b>                      Saturated, dense, no odor. Primarily medium to coarse sand with ~10% gravel to 15 m and ~5% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>					
			<p><b>No Recovery (51.5 - 55)</b>                      Assumed to be same as 49-51.5 foot zone.</p>	B/W-28D@50-55				

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
55		SM	<p><b>Silty Sand with Gravel (55 - 59)</b> Saturated, dense, no odor. Primarily medium to coarse sand with ~15% gravel to 40 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>		X	X	X	
60		SM	<p><b>Silty Sand with Gravel (59 - 60)</b> Moist to saturated, dense, no odor. Primarily medium to fine sand with ~15% gravel to 15 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>					
65		SM	<p><b>Silty Sand (60 - 63)</b> Moist, dense, no odor. Primarily coarse to fine sand with ~5% gravel to 25 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.</p>					
65		CL	<p><b>Sandy Lean Clay (63 - 65)</b> Dry, very dense, no odor. Primarily silt and clay with trace gravel and coarse sand to 10 mm and ~35% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines have medium plasticity and toughness, have a brown color (7.5YR 5/4), and have no reaction to strong reaction to HCl.</p>					
70		CL	<p><b>Sandy Lean Clay (65 - 71)</b> Moist, dense, no odor. Primarily silt and clay with ~5% gravel to 25 mm and ~45% coarse to fine sand. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.</p>					
		SW	<p><b>Well-Graded Sand (71 - 72.5)</b> Saturated, very dense, no odor. Primarily coarse sand with ~10% gravel to 20 mm and ~10% silt and clay.</p>					

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Soil Boring:

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
75		SM	<p>The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p> <p><b>Silty Sand (72.5 - 75)</b> Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>	BW-28D@70-75	●	●	●	
		SW	<p><b>Well-Graded Sand with Gravel (75 - 77)</b> Moist, dense, no odor. Primarily medium to fine sand with ~15% gravel to 20 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have a strong reaction to HCl.</p>		●	●	●	
		SM	<p><b>Silty Sand (77 - 77.5)</b> Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~20% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.</p>		●	●	●	
		SM	<p><b>Silty Sand (77.5 - 80)</b> Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 25 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>		●	●	●	
80		SM	<p><b>Silty Sand (80 - 81.5)</b> Moist, dense, no odor. Primarily medium to fine sand with ~15% gravel to 25 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>		●	●	●	
		SP-SM	<p><b>Poorly Graded Sand with Silt (81.5 - 86)</b> Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~10 % silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.</p>		●	●	●	
85		CL	<p><b>Sandy Lean Clay (86 - 86.5)</b> Moist, very dense, no odor. Primarily silt and clay with ~5% gravel to 10 mm and ~30% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have a strong reaction to HCl.</p>		●	●	●	
		SM	<p><b>Silty Sand (86.5 - 91)</b> Moist, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 20 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic to low plasticity and toughness, and have a weak reaction to HCl.</p>		●	●	●	
90					●	●	●	

# BORING LOG

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
		SM	<b>Silty Sand (91 - 92.5)</b> Moist, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~15% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.					
		SM	<b>Silty Sand (92.5 - 94.5)</b> Moist, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.					
95		SM	<b>Silty Sand (94.5 - 95)</b> Saturated, dense, no odor. Primarily medium to coarse sand with ~5% gravel to 20 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					← B/W-28I screened from 95 to 115 feet.
		SW-SM						
			<b>Well-Graded Sand with Silt (95 - 98.5)</b> Saturated, dense, no odor. Primarily medium to fine sand with ~10% gravel to 20 mm and ~10% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.					
100		CH	<b>Sandy Fat Clay (98.5 - 100)</b> Dry to moist, dense, no odor. Primarily silt and clay with ~5% gravel to 30 mm and ~15% medium to fine grained sand. The sand and gravel are angular to subangular. The fines have moderate to high plasticity, are moderately tough, and have a strong reaction to HCl.					
		SW	<b>Well-Graded Sand with Gravel (100 - 101.5)</b> Saturated, loose, no odor. Primarily coarse sand with ~20% gravel to 15 mm and ~5% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and do not react to HCl.	B/W-28D@100-105				
		CL						
		SM	<b>Sandy Lean Clay (101.5 - 102.5)</b> Moist, dense, no odor. Primarily silt and clay with ~5% gravel to 10 mm and ~40% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.					
105		ML	<b>Silty Sand (102.5 - 104)</b> Moist, dense, no odor. Primarily medium to fine sand with ~10% gravel to 15 mm and ~25% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.					
		CL						
			<b>Sandy Silt (104 - 105)</b> Dry to moist, dense, no odor. Primarily silt and clay with ~40% fine sand with a maximum grain size of 0.1 mm. The sand is subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.					
		CL	<b>Sandy Lean Clay (105 - 107.5)</b> Dry to moist, dense, no odor. Primarily silt and clay with ~15% medium to fine grained sand with trace gravel sized to 10 mm. The sand and gravel are subangular to subrounded. The fines have moderate to high plasticity, are moderately tough, and do not react to HCl.					
110			<b>Sandy Lean Clay (107.5 - 112)</b> Dry to moist, dense, no odor. Primarily silt and clay with ~5% gravel to 10 mm and ~30% medium to fine					

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
			grained sand. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have a strong reaction to HCl.					
		SM	<b>Silty Sand (112 - 113)</b> Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 5 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic to low plasticity and toughness, and have no reaction to a weak reaction to HCl.					
		SC	<b>Clayey Sand (113 - 116)</b> Moist, very dense, no odor. Primarily medium to fine sand with ~5% coarse sand a gravel to 10 mm and ~35% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.					
115		SM	<b>Silty Sand (116 - 116.5)</b> Moist to saturated, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.					
		SC	<b>Clayey Sand (116.5 - 117.5)</b> Moist, very dense, no odor. Primarily medium to fine sand with ~5% coarse sand a gravel to 10 mm and ~35% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.					
		ML						
		SM						
120		SM	<b>Silty Sand (117.5 - 118.5)</b> Moist to saturated, very dense, no odor. Primarily medium to fine sand with ~5% gravel to 15 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.					
		SM	<b>Sandy Silt (118.5 - 120)</b> Moist, dense, no odor. Primarily silt and clay with ~2% gravel to 5 mm and ~43% medium to fine grained sand. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and have a weak reaction to HCl.					
		SM	<b>Silty Sand (120 - 121.5)</b> Moist, dense, no odor. Primarily medium to fine sand with ~5% gravel to 5 mm and ~40% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic to low plasticity and toughness, and have a strong reaction to HCl.					
125		SM	<b>Silty Sand (121.5 - 122.5)</b> Moist to saturated, dense, no odor. Primarily medium to fine sand with grain size to 2 mm and ~45% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, and have a weak to strong reaction to HCl.					
			<b>Silty Sand (122.5 - 124.5)</b> Moist to saturated, dense, no odor. Primarily fine sand with a maximum grain size of 0.1 mm and ~40% silt and clay. The sand is subangular to subrounded. The fines are nonplastic, and have a strong reaction to HCl.					
			<b>Silty Sand (124.5 - 125)</b> Saturated, dense, no odor. Primarily medium to fine					

B/W-28D@120-125

# BORING LOG

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Soil Boring:

Monitoring Well:

Piezometer:

Boring/Well Number: BW-28D

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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
130		SM	<p>sand with a maximum grain size of 1 mm and ~15% silt and clay. The sand is angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.</p> <p><b>Silty Sand (125 - 130)</b> Moist to saturated, dense, no odor. Primarily fine sand with maximum grain size of 0.5 mm. The sand is subangular to subrounded. The fines have low to medium plasticity and toughness, and have a strong reaction to HCl.</p> <p><b>Silty Sand (130 - 134)</b> Saturated, dense, no odor. Primarily medium to fine sand with a maximum grain size of 1 mm and ~15% silt and clay. The sand is angular to subangular. The fines are nonplastic, and have no reaction to a weak reaction to HCl.</p>					
135		SC	<p><b>Clayey Sand (134 - 139)</b> Moist, dense, no odor. Primarily fine sand with ~40% silt and clay and trace coarse sand and gravel to 15 mm. The sand and gravel are subangular to subrounded. The fines have medium plasticity and toughness, and have a strong reaction to HCl.</p>					
140		CL	<p><b>Sandy Lean Clay (139 - 140)</b> Dry, very dense, no odor. Primarily silt and clay with ~40% medium to fine grained sand and ~5% gravel to 10 mm. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and have a weak reaction to HCl.</p>					
		CL	<p><b>Sandy Lean Clay (140 - 142)</b> Dry to moist, very dense, no odor. Primarily silt and clay with ~5% gravel to 5 mm and ~35% medium to fine grained sand. The sand and gravel are angular to subangular. The fines have medium plasticity and toughness, and do not react to HCl.</p>					
		ML	<p><b>Silt (142 - 145)</b> Saturated, very dense, no odor. Primarily silt and clay with ~15% medium to fine grained sand and ~ 10% coarse sand with a maximum grain size of 1 mm. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
145		SM	<p><b>Silty Sand (145 - 147)</b> Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% coarse grained sand and gravel to 5 mm and ~15% silt and clay. The sand and gravel are subangular to subrounded. The fines are nonplastic, and do not react to HCl.</p>					
		SW	<p><b>Well-Graded Sand (147 - 157)</b> Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 10 mm and ~5% silt and clay. The sand and gravel are subangular to subrounded.</p>	BW-28D@145-150				



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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
170		SC	<p><b>Clayey Sand (168 - 170)</b> Moist to saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 20 mm and ~15% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl.</p>	B/W-28D@168-173				
		SP-SM	<p><b>Poorly Graded Sand with Silt (170 - 171)</b> Saturated, dense, no odor. Primarily medium to fine sand with ~5% gravel to 20 mm and ~ 10% silt and clay. The sand and gravel are subangular to subrounded. The fines have low plasticity and toughness, and do not react to HCl.</p>					
		SC	<p><b>Clayey Sand (171 - 186)</b> Dry to moist, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 90 mm and ~30% silt and clay. The sand and gravel are subangular to subrounded. The fines have low to medium plasticity and toughness, and have a weak to strong reaction to HCl.</p>					
175								
180								
185								
			<b>Silty Sand (186 - 193)</b>					

# BORING LOG

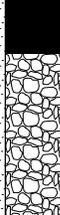
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Depth (ft)	Elevation (ft)	USCS Group Symbol	Material Description	Sample Name	Sample Location	Lithology	Well Construction	Remarks
190		SM	Moist to saturated, very dense, no odor. Primarily medium to fine sand with ~10% gravel to 40 mm and ~20% silt and clay. The sand and gravel are angular to subangular. The fines are nonplastic to low plasticity and toughness, and do not react to HCl. There are some clayey sand seams, up to 6-inches, which are more dense and have higher plasticity.					
195		SC	<b>Clayey Sand (193 - 199)</b> Moist, dense, no odor. Primarily coarse to fine sand with ~10% gravel to 30 mm and ~30% silt and clay. The sand and gravel are angular to subangular. The fines have low plasticity and toughness, and do not react to HCl. There are some thin silty sand seams as above.	B/W-28D@189-194				
			Bottom of Borehole at 199 feet below ground surface.					