



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-302

TOTAL DEPTH (FT BGS): 171

## PROJECT INFORMATION

PROJECT: SRI Phase 3

PROJECT NO.: 10058697

SITE LOCATION: DDMT, Main Installation

PROJECT MANAGER: T. Holmes

FIELD STAFF: J. Ruffing / C. Mokri

BOREHOLE STARTED: 6/28/2017

BOREHOLE FINISHED: 8/4/2018

## DRILLING INFORMATION

DRILLING CO.: Cascade Drilling, L.P.

DRILLER: Thesius Taylor and Larry Yancey

DRILLING METHOD/RIG: SR-20/SuperSonic II

BOREHOLE DIAMETER: 12 in., 6 in.

GROUND SURFACE ELEVATION (FT NAVD): 291.92

WATER DEPTH/ DATE(FT BTOC): 90.79 on 8/11/18

BOREHOLE USE: Monitoring Well

NOTES: PID readings collected from at least 5 foot intervals beginning at ground surface; all readings were 0 parts per million (ppm) except for 3.9 ppm at 127 ft. bgs. No water used during drilling. Well installed 08/04, pad constructed 08/05 and well developed 08/06/18.

Depth (ft, bgs)	Soil Symbol	Soil Description	Well Completion	Comments
0		Concrete		
0	CL	Clay, soft, nonplastic, 10 YR 5/6, yellowish brown, dry		
10				
20	SP	Sandy clay, fine to medium grained, medium stiff, low plasticity, 5 YR 4/6, yellowish red, dry		
30				
40	SW	Sand with gravel, fine to coarse grained sand, fine gravel, loose, 10 YR 6/6, brownish yellow, dry		
40	SP	Sand, fine to medium grained, loose, medium dense, 7.5 YR 5/6, strong brown, dry		
50	SW	Sand with gravel up to 1.5", fine to coarse grained, loose, 10 YR 6/6, brownish yellow, dry		

The well completion diagram shows a vertical riser pipe (red) extending from the surface down to the bottom of the borehole. The riser is surrounded by grout (orange) in two sections: from the surface down to approximately 10 feet, and from approximately 20 feet down to the bottom. The surface casing (yellow) is shown as a vertical line on the right side of the riser, extending from the surface down to the bottom.

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Depth	Soil Symbol	Soil Description	Well Completion	Comments
60		Strong brown 7.5 YR 5/6  10 YR 6/6, brownish yellow		
70		<b>CL</b> Clay, medium stiff, high plasticity, 10 YR 5/6, yellowish brown, moist  <b>SW</b> Sand with gravel up to 1.5", fine to coarse grained, loose, 10 YR 6/6, brownish yellow, dry Cobbles up to 3"		
80				
90		<b>SP</b> Sand, fine grained, loose, 10 YR 8/3, very pale brown, moist to wet		
		No recovery		
100				

90.79 ft. btoc

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Depth	Soil Symbol	Soil Description	Well Completion	Comments
110				
120		<b>SW</b> Sand with gravel up to 2", fine to coarse grained, medium dense, 10 YR 5/6, yellowish brown, wet		
130		<b>GW</b> Gravel with sand, fine to coarse grained, trace cobbles to 3.25", dense, 10 YR 4/3, dark yellowish brown, wet		3.9 ppm
		<b>GP</b> Gravel with some sand, fine to coarse grained sand, mostly coarse grained gravel, trace cobbles to 3.25", dense, 10 YR 2/1, black, wet		
		<b>GW</b> Gravel with sand, fine to coarse grained, dense, 10 YR 5/6, yellowish brown, wet		
140		<b>CL</b> Clay, stiff, medium to high plasticity, 10 YR 4/1, dark gray, moist		
150				

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Depth	Soil Symbol	Soil Description	Well Completion	Comments
			BENTONITE	
	SP	Sand, fine to medium grained, loose, 10 YR 6/6, brownish yellow, wet		
		Sand, medium grained, very loose, 5 YR 8/4, pink	SAND PACK	
160			SCREEN	
	CL	Clay, medium stiff, high plasticity, Gley 1 7/N, light gray		
	SP	Sand, fine/medium grained, very loose, 10 YR 7/6, yellow, wet		
	CL	Clay, medium stiff, high plasticity, Gley 1 7/N, light gray		
170	SP	Sand, fine/medium grained, very loose, 10 YR 7/6, yellow, wet	END CAP	
		End of Log		
180				
190				
200				

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