



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-296

TOTAL DEPTH (FT BGS): 111

## PROJECT INFORMATION

PROJECT: SRI Phase 3

PROJECT NO.: 10058697

SITE LOCATION: DDMT, Main Installation

PROJECT MANAGER: T. Holmes

FIELD STAFF: C. Mokri

BOREHOLE STARTED: 6/29/2018

BOREHOLE FINISHED: 6/30/2018

## DRILLING INFORMATION

DRILLING CO.: Cascade Drilling, L.P.

DRILLER: Jose Asua

DRILLING METHOD/RIG: Sonic, S1159

BOREHOLE DIAMETER: 6 in.

GROUND SURFACE ELEVATION (FT NAVD): 296.74

WATER DEPTH/ DATE(FT BTOC): 91.17 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). No water used during drilling. Well installed 06/30, pad constructed 07/03 and well developed 07/15/18.

Depth (ft, bgs)	Soil Symbol	Soil Description	Well Completion	Comments
		Asphalt and aggregate base		
		<b>CL</b> Silty clay, medium stiff, medium plasticity, 2.5 YR 6/3, light reddish brown		
		<b>ML</b> Clayey silt, medium stiff, medium to low plasticity, 2.5 YR 5/3, reddish brown, moist		
10		<b>CL</b> Silty clay, medium stiff, medium plasticity, moist Clay with trace silt, soft, 2.5 YR 6/2, pale red Clay, medium stiff, high plasticity, 2.5 YR 4/4, reddish brown Stiff, 7.5 YR 5/6, strong brown		
20		Very stiff, 7.5 YR 4/6, strong brown with light gray With fine sand, soft, medium to high plasticity, 5 YR 5/4, reddish brown		
		<b>SC</b> Sandy clay, medium plasticity, 10 YR 5/8, red, dry		
30		<b>SP</b> Sand, medium grained, dense, dry		
		Loose, 2.5 YR 7/6, light red		
40		Medium to fine grained, very loose, 5 YR 7/6, reddish yellow, moist		
		<b>SW/GW</b> Sand and subrounded gravel to 1", 5 YR 6/6, reddish yellow		
		<b>SP</b> Sand with some gravel, fine to medium grained, very loose, 5 YR 6/4, light reddish brown		
50		<b>SP/GP</b> Sand and subangular gravel to 1", 5 YR 5/6, yellowish red		

Well Completion

Comments

GROUT

RISER

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Depth	Soil Symbol	Soil Description	Well Completion	Comments
		No recovery		
		<b>SP</b> Sand with rounded gravel to 1/2", fine to medium grained, very loose, 5 YR 7/6, reddish yellow, dry Trace gravel, fine grained Fine to medium grained, layered 2.5 YR 3/8, light red and 5 YR 7/6 yellowish red		
60		<b>SW/GW</b> Sand and subrounded gravel to 1", very loose, 5 YR 7/4, reddish yellow, dry		
70		<b>SP</b> Sand with rounded gravel to 1", loose, 2.5 YR 7/4, light reddish brown  3" layer, moderate cementation, 5 YR 4/2, dark reddish gray  Sand, stratified colors alternating between dark reddish grey, reddish yellow, and reddish brown, moderate cementation in dark reddish grey layers		
80		<b>SC</b> SC - Clayey sand, medium stiff, medium plasticity, 5 YR 5/8, yellowish red  <b>SP</b> SP - Sand, fine grained, very loose, 5 YR 8/2, pinkish white, moist Trace clay, moderate cementation Fine grained		
90		<b>SC</b> Clayey sand, medium grained, medium plasticity, moist  <b>SP</b> Sand with trace clay, fine grained, medium dense, 5 YR 6/8, reddish yellow, wet  <b>SW</b> Sand with rounded gravel to 1/2", fine to medium grained  <b>SW/GW</b> Sand and rounded gravel to 1", medium grained, very loose, 5 YR 6/8, reddish yellow, wet	91.17 ft. btoc ← BENTONITE ← SAND PACK	
100				

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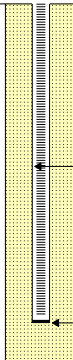
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Depth	Soil Symbol	Soil Description	Well Completion	Comments
		<b>SW</b> Sand with gravel, very loose, 5 YR 6/8, reddish yellow, wet	 SCREEN END CAP	
		<b>SW/GW</b> Sand/gravel, very loose, gravel to 1" rounded, 5 YR 6/8, reddish yellow		
110		<b>GW</b> Gravel with coarse sand, subrounded to 1.5", very loose, wet		
		<b>SP</b> Sand with some gravel, 5 YR 6/8, reddish yellow, wet		
		End of Log		
120				
130				
140				
150				

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