



## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-279

TOTAL DEPTH (FT BGS): 129

### PROJECT INFORMATION

PROJECT: SRI Phase 2

PROJECT NO.: 10021503

SITE LOCATION: DDMT, Main Installation

PROJECT MANAGER: T. Holmes

FIELD STAFF: J. Bills

BOREHOLE STARTED: 11/12/2016

BOREHOLE FINISHED: 11/14/2016

### DRILLING INFORMATION

DRILLING CO.: Cascade Drilling, L.P.

DRILLER: Steve Lacey

DRILLING METHOD/RIG: Sonic/TSI 150CC

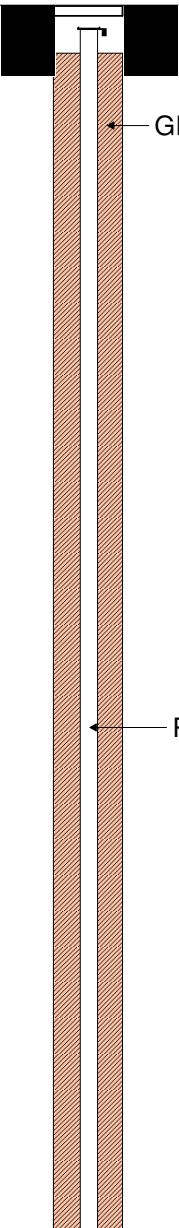
BOREHOLE DIAMETER: 6 in.

GROUND SURFACE ELEVATION (FT NAVD): 300.17

WATER DEPTH/ DATE(FT BTOC): 90.37 (12/8/16)

BOREHOLE USE: Monitoring Well

NOTES: PID readings collected at 5 foot intervals beginning at 5 ft, bgs; all readings were 0 parts per million (ppm). 500 gallons of potable water used during drilling because of heaving sands (see comment at 122 ft, bgs). Soil collapse to 125 ft, bgs; boring backfilled with bentonite to 123 ft, bgs prior to well installation. Well installed 11/14, pad constructed 11/15 and well developed 12/8/16.

Depth (ft, bgs)	Soil Symbol	Soil Description	Well Completion	Comments
10	CL	Clay, low plasticity, 10YR 5/8, yellowish brown, moist.		0 ppm
				0 ppm
				0 ppm
20	ML	Silty clay, low plasticity, 7.5YR, 7/6, reddish yellow, moist.		0 ppm
	CL	Clay, low plasticity, mottled, 2.5YR 4/6, dark red, mottles are 7.5YR 6/8, reddish yellow, moist.		0 ppm
	ML	Silty clay, medium to low plasticity, mottled, 2.5YR 4/6, dark red, mottles are 7.5YR 6/8, reddish yellow, moist.		0 ppm
30	SM	Silty sand, mottled, 2.5YR 4/6, dark red, mottles are 7.5YR 6/8, reddish yellow moist.		0 ppm
				0 ppm
40	SM	Silty sand, mottled, 10YR 6/8, brownish yellow, mottles are grey 8/10Y greenish black, moist.		0 ppm
	SM	Silty sand, trace gravel rounded <1", moist.		0 ppm
	SP	Fine sand, trace gravel rounded <1", 10YR 7/6, yellow, moist.		0 ppm
50				0 ppm

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Created Date: 5/10/2017

Checked By: TCH

Checked Date: 8/2/2017



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Depth	Soil Symbol	Soil Description	Well Completion	Comments
		<b>SP</b> Silty fine to coarse sand, coarsening with depth, trace gravel rounded <2", 7.5YR 5/8, strong brown, moist.		0 ppm
60		<b>SP</b> Coarse sand, trace gravel rounded <2", 2.5Y 8/6, yellow, moist.		0 ppm
		<b>SC</b> Clayey sand, 2.5Y 8/1, white, moist.		0 ppm
70		<b>SW</b> Fine sand with gravel, rounded <3", 2.5Y 7/8, yellow, moist.		0 ppm
				0 ppm
80		<b>SP</b> Fine sand, trace gravel rounded <1", 10YR 6/8, brownish yellow, moist.		0 ppm
		<b>SW</b> Fine sand, trace gravel rounded <2", 10YR 6/8 brownish yellow, moist.		0 ppm
		<b>SW</b> Fine sand with gravel, rounded <2", 5Y 8/2, pale yellow, dry.		0 ppm
90		<b>SP</b> Coarse sand, 5Y 7/4, pale yellow, wet.		0 ppm
		<b>SP</b> Fine to medium sand, gravel rounded <1", 7.5YR 5/8, strong brown, wet.		0 ppm
100				0 ppm

90.37 ft. bloc

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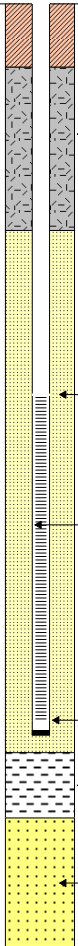
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Depth	Soil Symbol	Soil Description	Well Completion	Comments
110	SP	Medium sand, trace gravel rounded <1", 10YR 6/8, brownish yellow, wet.		0 ppm
	SP	Fine to medium sand, trace gravel rounded <1", 2.5Y 7/3, pale yellow, wet.		0 ppm
120	CL	Clay, medium plasticity, 10YR 6/6, brownish yellow, wet.		0 ppm
	CL	Clay, high plasticity, gley, 4/N, dark gray, wet.		0 ppm
130		End of Log		Heaving sand flowing into casing required clean-out runs prior to well installation.
140				
150				

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