



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-273

TOTAL DEPTH (FT BGS): 140

PROJECT INFORMATION

PROJECT: DDMT SRI

PROJECT NO.: 235772

SITE LOCATION: DDMT, Main Installation

PROJECT MANAGER: T. Holmes

FIELD STAFF: J. Bills

BOREHOLE STARTED: 07/17/15

BOREHOLE FINISHED: 07/26/15

DRILLING INFORMATION

DRILLING CO.: Cascade Drilling, L.P.

DRILLER: M. Hansen

DRILLING METHOD/RIG: ProSonic & SuperSonic II

BOREHOLE DIAMETER: 12 in. and 6 in.

GROUND SURFACE ELEVATION (FT MSL): 285.0

WATER DEPTH/ DATE: 114.22 ft, btoc on 7/30/15

BOREHOLE USE: Monitoring Well

NOTES: PID readings collected at 5-foot intervals beginning at 5 ft, bgs; all readings were 0 ppm. 12-in borehole and 8-in surface casing installed to 91 ft, bgs; 6-in borehole from 91 to 140 ft bgs. 100 gallons of potable water used during drilling. Well installed 7/26, well developed 7/30 and well pad constructed 7/27/15.

Depth (ft, bgs)	Soil Symbol	Soil Description	Well Completion	Observations
		ML Clayey silt. Light yellowish brown (10YR 6/4). Moist. Medium dense.	<p>The diagram shows a vertical well completion. A central riser pipe is surrounded by grout. An outer surface casing is also shown. Labels with arrows point to 'GROUT', 'RISER', and 'SURFACE CASING'.</p>	0 ppm
10		ML Clayey silt. Brownish yellow (10YR 6/6). Moist. Medium dense		0 ppm
		CL Silty clay. Light yellowish brown (10YR 6/4). Moist. Dense.		0 ppm
20		CL Silty clay. Strong brown (7.5YR 5/6). Moist. Dense. Trace gravel. Mottles.		0 ppm
		ML Clayey silt. Yellowish red (5YR 5/8). Moist. Dense. Mottles.		0 ppm
30		SW Silty sand with gravel(chert). Reddish yellow (7.5YR 6/6). Moist. Medium dense.		0 ppm
		SW Silty sand with gravel. Strong brown (7.5YR 5/8). Moist. Medium dense		0 ppm
40		CL Silty clay. Brown (7.5YR 4/4). Moist. Medium dense		0 ppm
		SP Silty sand with trace gravel. Reddish yellow (7.5YR 6/8). Moist. Medium dense.		0 ppm
50				0 ppm

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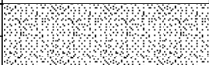
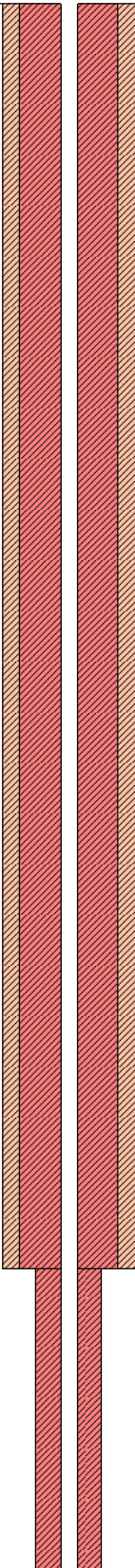
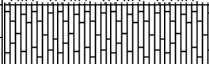

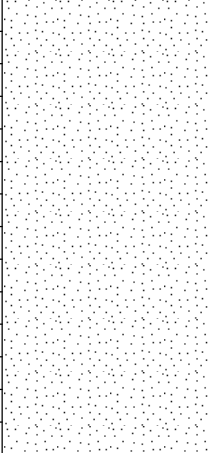

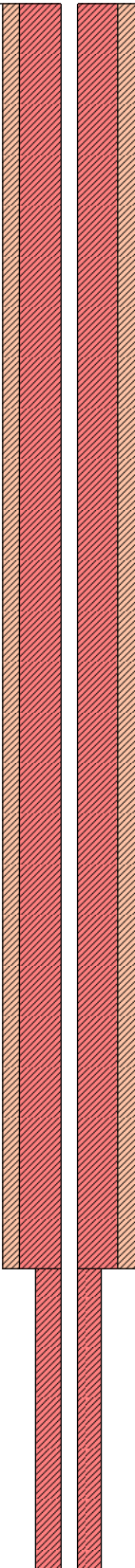
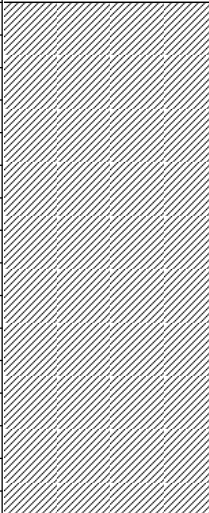
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Depth	Soil Symbol	Soil Description	Well Completion	Observations
		SP Medium sand with trace gravel. brownish yellow (10YR 6/6). Moist. Medium dense.		
		SM Silty sand with trace gravel. Yellowish brown (10YR 5/6). Moist. Medium dense.		0 ppm
		SP Medium sand with trace gravel. Reddish yellow (7.5YR 6/8). Moist. Medium dense.		
60		SW Sand with gravel (rounded chert pebbles <2 in). Reddish yellow (7.5YR 6/8). Moist. Medium dense.		0 ppm
70				0 ppm
		SP Sand with gravel (chert <2 in). Brownish yellow (10YR 6/6). Moist. Medium dense.		0 ppm
		No Recovery		
80				Driller noted clay on core barrel at 82 ft, bgs.
		CL Clay. Gray (2.5Y 5/1). Hard. Moist. Trace lignite.		0 ppm
90				0 ppm
				0 ppm
100				0 ppm

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Depth	Soil Symbol	Soil Description	Well Completion	Observations
110				0 ppm
114.22 ft. btoc				0 ppm
120				0 ppm
		BENTONITE		0 ppm
	SC Interbedded sand and clay. Gray (2.5Y 6/1). Wet. Sand is loose.			0 ppm
	SP Fine sand. Gray (2.5Y 6/1). Wet. Loose.		SAND PACK	0 ppm
130				0 ppm
		SCREEN		0 ppm
			END CAP	
140		End of Log		
150				

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