



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-198

TOTAL DEPTH: 116 ft.

## PROJECT INFORMATION

PROJECT: DDMT - Main Installation, New Plume Wells

PROJECT NO.: 3202-019

SITE LOCATION: MI

PROJECT MANAGER: T. Holmes

FIELD STAFF: D. Whitesides

BOREHOLE STARTED: 8/23/2006

BOREHOLE FINISHED: 8/23/2006 11:30:00 AM

## DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: A. Marshall

DRILLING METHOD/RIG: Sonic

BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 291.8 (ft, msl)

WATER DEPTH/ DATE: 93.9 ft.toc - 8/24/06

BOREHOLE USE: Monitoring Well

## NOTES:

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
	Asphalt	No Recovery		Grouted Annulus
	CL	Clay - dark gray (7.2YR 4/1) massive, plastic		
10	CL	Clay - brown (7.5YR 4/4) massive, plastic,		
20	CL	Clay - brown (7.5YR 4/4) soft moist		
	CL	Clay - brown (7.5YR 4/4) stiffer than above		
	CL	Clay - brown (7.5YR 4/4) less than 10% sand		
30				

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Depth	Soil Symbol	Soil Description	Well Completion		Well Description
		<b>SP</b> Sand - red (2.5YR 4/8) fine grained, clayey			
		<b>SP</b> Sand - yellowish red (5YR 5/6) fine grained			
		<b>GW</b> Gravel - reddish yellow (5YR 6/6) sandy, moist			
		<b>SP</b> Sand - reddish yellow (7.5YR 6/8) gravelly, cobbles up to 3-in., moist			
40		<b>SP</b> Sand - reddish yellow (7.5YR 7/8) fine to very fine grain,			
		<b>SP</b> Sand - reddish yellow (7.5YR 7/8) fine grained, moist			
50		<b>SW</b> Sand - reddish yellow (7.5YR 6/8) gravelly up to 50%, dry			
		<b>SP</b> Sand - white (7.5YR 8/1) fine grain, dry			
		<b>SP</b> Sand - strong brown (7.5YR 5/6) gravelly, dry			
60					

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		<b>SP</b> Sand - white (7.5YR 8/1) gravelly,		
		<b>SP</b> Sand - yellowish red (5YR 4/6) gravelly, clayey, moist		
		<b>SW</b> Sand - yellowish red (5YR 4/6) gravelly, medium to fine, wet		
		<b>SW</b> Sand - yellowish red (5YR 7/6) gravelly, medium to fine, moist		
70		<b>SW</b> Sand - strong brown (7.5YR 5/6) gravelly, medium to fine, moist		
		<b>SP</b> Sand - pinkish white (7.5YR 8/2) fine to very fine grain, moist		
		<b>SC</b> Sand - light gray (7.5YR 7/1) fine grain, clayey, dry		
80		<b>SP</b> Sand - (7.5YR 8/1) fine to very fine grain, dry		
		<b>SP</b> Sand - pinkish white (7.5YR 8/2) fine to very fine grain, dry		
		<b>SP</b> Sand - gray (5YR 6/1) very fine		
		<b>SP</b> Sand - pink (7.5YR 7/3) fine to very fine, moist		
90				

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
100		<b>SP</b> Sand – white (7.5YR8/1) gravelly, fine to very fine		Sand Pack  Screened Interval
		<b>SP</b> Sand – white (7.5YR8/1) fine to very fine		
		<b>SC</b> Sand – reddish yellow (7.5YR7/8) clayey, fine grain, wet		
		<b>SC</b> Sand – strong brown (7.5YR5/6) clayey, fine grain, wet		
		<b>SW</b> Sand – reddish yellow (7.5YR6/6) gravelly, coarse to fine grain, wet		
110		<b>CL</b> Clay – strong brown (7.5YR5/8) sandy		Bentonite Backfill
		<b>CL</b> Clay – strong brown (7.5YR5/8) massive, very plastic		
		<b>CL</b> Clay – very dark gray (7.5YR3/1) massive, dense, plastic		
120		End of Log		

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