



## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-199B

TOTAL DEPTH: 118 ft.

### PROJECT INFORMATION

PROJECT: DDMT - Main Installation, New Plume Wells

PROJECT NO.: 3202-019

SITE LOCATION: MI

PROJECT MANAGER: T. Holmes

FIELD STAFF: E. Van Schaik

BOREHOLE STARTED: 8/8/2006 12:00:00 PM

BOREHOLE FINISHED: 8/8/2006 3:20:00 PM

### DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: A. Marshall

DRILLING METHOD/RIG: Sonic

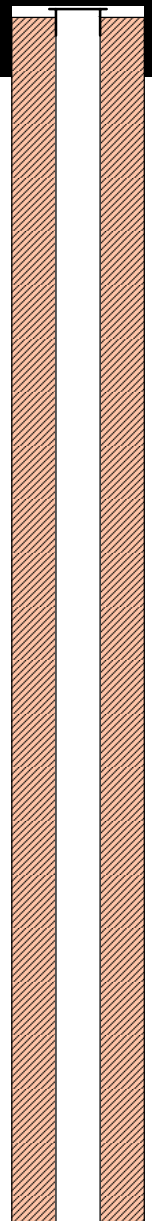
BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 302.07 (ft, msl)

WATER DEPTH/ DATE: 104.5 ft.toc - 8/14/06

BOREHOLE USE: Monitoring Well

NOTES: Measured well depth was 117.8 feet beet below top of casing (118.1 bgs) on 12/12/06. Field notes state well set at 117 feet bgs.

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
10		<b>CL</b> Clay - red (2.5YR 4/6) medium plasticity, dry		Grouted Annulus
20		<b>CL</b> Clay - red (2.5YR 4/6) medium plasticity, dry		
		<b>CL</b> Clay - strong brown (7.5YR 4/6) medium plasticity, silty, dry		
30		<b>CL</b> Silty Clay - strong brown (7.5YR 6/6) silty, dry		

Created By: WTR

Checked By: EVS

PAGE: 1 of 4



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-199B

TOTAL DEPTH: 118 ft.

Depth	Soil Symbol	Soil Description	Well Completion		Well Description
		<b>CL</b> Sandy clay - reddish yellow (5YR 6/8) fine grained, dry			
		<b>SC</b> Clayey sand - red (10YR 5/8) very fine grained, dry			
40		<b>SC</b> Clayey sand - red (2.5YR 5/8) very fine grained, fine gravel, sub angular to sub rounded, dry			
		<b>SC</b> Clayey sand - brown (7.5YR 4/4) very fine grained, fine to medium gravel, A/A, dry			
50		<b>SW</b> Gravelly sand - reddish yellow (5YR 6/8) fine grained, fine to coarse gravel, dry			
		<b>SP</b> Sand - reddish yellow (5YR 6/8) fine grained, dry			
		<b>SC</b> Silty sand - strong brown (7.5YR 5/8) very fine grained sand, dry			
60					

Created By: WTR

Checked By: EVS

PAGE: 2 of 4



## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-199B

TOTAL DEPTH: 118 ft.

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		<b>SW</b> Gravelly sand - reddish yellow (7.5YR 6/8) fine grained, fine to coarse gravel, sub angular, dry		
		<b>SW</b> Gravelly sand - yellow (10YR 7/6) fine grained, dry		
		<b>SW</b> Gravelly sand - strong brown (7.5YR 5/6) fine grained, fine gravel, dry		
70		<b>SW</b> Gravelly sand - reddish yellow (7.5YR 6/8) fine grained, fine to coarse gravel, sub angular to sub rounded, dry		
		<b>SW</b> Gravelly sand - strong brown (7.5YR 5/8) very fine grained, fine to coarse gravel, dry		
80		<b>SW</b> Gravelly sand - strong brown (7.5YR 4/6) very fine grained, fine to coarse gravel, A/A, dry		
		<b>SW</b> Gravelly sand - reddish yellow (7.5YR 7/8) very fine grained, fine to coarse gravel, silty, dry		
		<b>SW</b> Gravelly sand - brownish yellow (10YR 6/8) very fine grained, fine to coarse gravel, silty, dry		
90				

Created By: WTR

Checked By: EVS

PAGE: 3 of 4



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-199B

TOTAL DEPTH: 118 ft.

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
100		<b>CL</b> Clayey sand - pinkish gray (5YR 7/2) medium plasticity, dry		Bentonite Plug
		<b>SP</b> Sand - reddish yellow (7.5YR 6/8) fine grained, dry		
		<b>SW</b> Gravelly sand - reddish yellow (7.5YR 6/8) fine to medium gravel, A/A , dry		
		<b>CL</b> Clay - pinkish gray (5YR 7/2) medium plasticity, moist		
		<b>SC</b> Clayey sand - light brown (7.5YR 6/3) moist		
110		<b>SW</b> Gravelly sand - yellow (10YR 7/6) fine grained, fine to medium gravel, A/A, moist		Screened Interval
		<b>SW</b> Gravelly sand - brownish yellow (10YR 6/8) fine grained, fine to medium gravel, sub rounded to sub angular, moist		
		<b>SW</b> Gravelly sand - brownish yellow (10YR 6/8) medium grained, fine to medium gravel, A/A, moist		
		<b>SW</b> Gravelly sand - dark yellowish brown (10YR 4/6) fine to medium grained, fine to coarse gravel, sub angular to sub rounded, moist		
120		End of Log		

Created By: WTR

Checked By: EVS