



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-210A

TOTAL DEPTH: 216 ft.

PROJECT INFORMATION

PROJECT: Phase 2 Wells and April LTM Report

PROJECT NO.: 3202-019

SITE LOCATION: MI

PROJECT MANAGER: T. Holmes

FIELD STAFF: J. Anstaett

BOREHOLE STARTED: 4/17/2007 14:00

BOREHOLE FINISHED: 4/18/2007 15:25

DRILLING INFORMATION

DRILLING CO.: Prosonic

DRILLER: J. Asua

DRILLING METHOD/RIG: Sonic


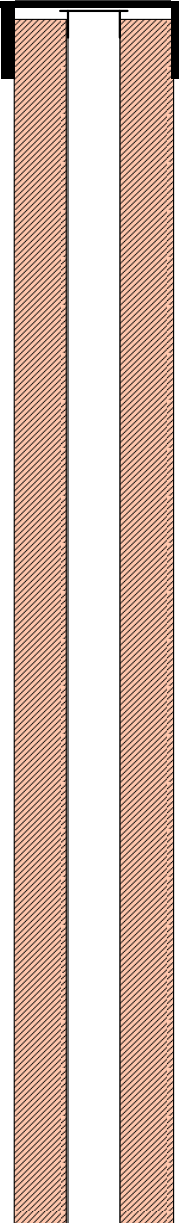




BOREHOLE DIAMETER: 6-in.

GROUND SURFACE ELEVATION: 289.78 (ft, msl)

WATER DEPTH/ DATE: 98.31-ft. toc -5/4/07

BOREHOLE USE: Monitoring Well

NOTES:

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		Grass and roots		Grouted Annulus
		CL Silty clay - dark yellowish brown 10YR (3/6), low plasticity, moist.		
10		CL Silty clay - dark yellowish brown 10YR (5/4), low plasticity, moist.		
20		CH Silty clay - dark yellowish brown 10YR (5/4), medium plasticity, moist.		
30		CL Sandy clay - yellowish red 5YR (4/6), gray mottling, low plasticity, fine grained sand, moist.		

Created By: WTR

Checked By: KMS

PAGE: 1 of 8



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-210A

TOTAL DEPTH: 216 ft.

Depth	Soil Symbol	Soil Description	Well Completion		Well Description
		SP Clayey sand - yellowish red 5YR (5/8), fine grained sand, poorly graded, moist.			
40		SW Silty sand - brown 10YR (4/3) fine to course grained sand, well graded, wet.			
50		SP Silty sand - yellow 10YR (7/8), fine grained sand with trace course grained sand, poorly graded, moist.			
		SP Sand - strong brown 7.5YR (5/8), trace gravel, fine to course grained sand, sub-rounded gravel, poorly graded, moist.			
60		SW Gravely sand - yellowish red 5YR (5/8), fine to course grained sand, sub-rounded to sub-angular gravel, well graded, moist.			

Created By: WTR

Checked By: KMS

PAGE: 2 of 8



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-210A

TOTAL DEPTH: 216 ft.

Depth	Soil Symbol	Soil Description	Well Completion		Well Description
70		SW Gravely sand - brownish yellow 10YR (6/6), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.			
		SP Silty sand - yellow 10YR (7/8), fine grained sand, poorly graded, moist.			
		SP Clayey sand - reddish brown 5YR (5/4), fine grained sand, poorly graded, moist.			
80		SP Silty sand - yellow 2.5Y (7/6), fine grained sand, poorly graded, moist.			
		SP Silty sand - pale yellow 2.5Y (8/4), with some gravel, fine grained sand, sub-rounded to sub-angular gravel, poorly graded, moist.			
90		SW Gravely sand - brownish yellow 10YR (6/8), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.			

Created By: WTR

Checked By: KMS

PAGE: 3 of 8



TOTAL DEPTH: 216 ft.

PAGE: 4 of 8

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-210A

TOTAL DEPTH: 216 ft.

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		SP Silty sand - strong brown 7.5YR (5/8), fine grained sand, poorly graded, wet.		
		GW Sandy gravel, light brown 7.5YR (6/4), sub-rounded to sub-angular gravel, coarse grained sand, well graded, wet.		
130		SW Gravely sand - reddish yellow 7.5YR (6/8), fine to coarse grained sand, sub-rounded gravel, trace cobbles, sub-rounded cobbles, well graded, wet.		
		SW Silty sand with gravel - light gray 2.5Y (7/2), trace cobbles, fine to medium grained sand, sub-rounded to sub-angular gravel, sub-rounded to sub-angular cobbles, well graded, wet.		
140		CL Silty clay - light gray 2.5Y (7/1), low plasticity, brown mottling, moist.		
		CH Clay - light brownish gray 2.5Y (6/2), high plasticity, moist.		
		CL Silty clay - dark gray 2.5Y (4/1), medium plasticity, moist.		
150				

Created By: WTR

Checked By: KMS



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-210A

TOTAL DEPTH: 216 ft.

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
160		CH Silty clay - light gray 2.5Y (7/1), with brown mottling, medium plasticity, moist.		
		CH Clay - light gray 2.5Y (7/1), high plasticity, moist.		
		MH Sandy silt - pale yellow 2.5Y (7/3), fine grained sand, poorly graded, moist.		
170		SP Silty sand - pale yellow 2.5Y (7/3), fine grained sand, poorly graded, moist.		Bentonite Plug
		SW Gravely sand - light brown 7.5YR (6/4), fine to coarse grained sand, sub-rounded gravel, well graded, wet.		
		SW Gravely sand - strong brown 7.5YR (5/6), fine to coarse grained sand, sub-rounded to sub-angular gravel, well graded, wet.		
180				Screened Interval

Created By: WTR

Checked By: KMS

PAGE: 6 of 8

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-210A

TOTAL DEPTH: 216 ft.

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
190		SP Silty sand - light gray 7.5YR (7/1), with some clay, fine grained sand, poorly graded, moist.		
		CH Silty clay - light gray 7.5YR (7/1), high plasticity, moist.		
		SW Gravely sand - light brownish yellow 2.5Y (6/3), fine to coarse grained sand, sub-rounded gravel, well graded, moist.		
200		CL Silty clay - pale yellow 2.5Y (7/3), medium plasticity, moist.		
		ML Clayey silt - very pale brown 10YR (7/3), moist.		
		CL Silty clay - light gray 2.5Y (7/2), medium plasticity, moist.		
210				

Created By: WTR

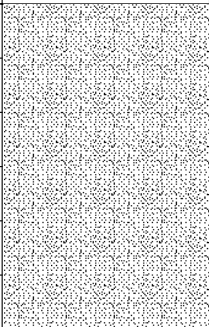
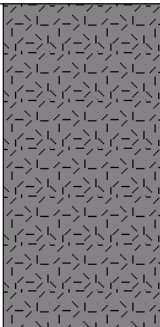
Checked By: KMS



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-210A

TOTAL DEPTH: 216 ft.

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		SP Silty sand - yellow 2.5Y (8/6), fine grained sand, poorly graded, moist.		
220		End of Log		
230				
240				

Created By: WTR

Checked By: KMS

PAGE: 8 of 8