

SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-1			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches	
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth 5' BSG		Comments	
				Start Date 8/20/2009		Well Name N/A			
				Completion Date 8/20/2009		Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS	
	16"		0	<u>0-3" TOP SOIL</u>					
			-	<u>3-16" COAL</u> Black coal with ash and debris.					
			-	1					
			-	-					
	35"		2						
			-						
			-	3					
			-	-					
			-	4	<u>0-5" COAL</u> Black coal with debris				
			-	-	<u>5-35" POORLY GRADED SAND</u> Fine grained sand, wet, gray.		SP		
			-	5					Wet @ 5' BSG
			-	-					
		-	6						
		-	-						
		-	7						
		-	-						
		-	8	EOB					
		-	-						
		-	-						
		-	9						
		-	-						
		-	10						
		-	-						
		-	11						
		-	-						
		-	12						
		-	-						

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-2		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth N/A		Comments
				Start Date 8/20/2009		Well Name N/A		
				Completion Date 8/20/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
			0					
			-					
			-	EOB				Refusal at 6" concrete
			-					
			1					
			-					
			-					
			2					
			-					
			-					
			3					
			-					
			-					
			4					
			-					
			-					
			5					
			-					
			-					
			6					
			-					
			-					
			7					
			-					
			-					
			8					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-3		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4' BSG	Comments		
				Start Date 8/20/2009	Well Name N/A			
				Completion Date 8/20/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	28"		0	<u>0-2" TOP SOIL</u>				
			-	<u>2-25" COAL</u>				
				-	Black coal with ash and debris.			
				-				
				1				
				-				
				-				
				2				
				-	<u>25-28" WELL GRADED SAND</u>	SW		
				-	Fine grained sand, gray.			
				-				
				3				
			-					
			-					
			4	EOB				Moist at 4' BSG
			-					
			-					
			-					
			5					
			-					
			-					
			6					
			-					
			-					
			7					
			-					
			-					
			8					
			-					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-4	
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches	
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 6'5" BSG	Comments	
				Start Date 8/20/2009	Well Name N/A		
				Completion Date 8/20/2009	Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS
36"			0	0-4" WELL GRADED SAND Medium grained sand, dark brown.	SW		
			-	4-30" COAL Black coal with ash and debris.			
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			2				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			3	30-36" TAR Dark brown.		45.4	
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			4	0-29" COAL Black coal with ash and wood debris.			
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			5				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			6	29-36" WELL GRADED SAND Fine grained sand, gray.	SW		
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			7				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			8	EOB			
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			9				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			10				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			11				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
36"			12				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				
			-				

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-5		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth 4' BSG		Comments
				Start Date 8/20/2009		Well Name N/A		
				Completion Date 8/20/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	18"		0 - - - - 1 - - - 2 - - 3 - -	<u>0-2" TOP SOIL</u> <u>2-18" COAL</u> Black coal, ash and debris.				
	36"		4 - - - 5 - - - 6 - - 7 - - -	<u>0-36" WELL GRADED SAND</u> Medium grained sand, gray.		SW		Wet @ 4' BSG
			8 - - - 9 - - - 10 - - - 11 - - 12	EOB				

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-6			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 "	
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth 4' BSG		Comments	
				Start Date 8/20/2009		Well Name N/A			
				Completion Date 8/20/2009		Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS	
	34"		0	<u>0-27" COAL</u> Black coal, ash, wood debris.					
				-					
				-					
				-					
				1					
				-					
				-					
				2					
				-					
				-	<u>27-34" WELL GRADED SAND</u> Medium grained sand, gray.		SW		
				3					
				-					
			-						
			4	EOB				Wet @ 4' BSG	
			-						
			-						
			-						
			5						
			-						
			-						
			6						
			-						
			-						
			7						
			-						
			-						
			8						
			-						
			-						
			9						
			-						
			-						
			10						
			-						
			-						
			11						
			-						
			-						
			12						

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-6b			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches			
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4'6" BSG	Comments			
				Start Date 8/20/2009	Well Name N/A				
				Completion Date 8/20/2009	Grid Location				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS	
	26"		0	0-2" TOP SOIL					
			-	2-19" COAL					
				-	Black coal, ash, wood debris.				
				-					
				-					
				1					
				-					
				-					
				-					
				2	19-21" WELL GRADED SAND	SW			
				-	Fine grained sand, brown.				
				-	21-26" PEAT				
				-					
			3						
			-						
			-						
	37"		4	0-8" PEAT					
			-	8-37" WELL GRADED SAND	SW				
				-	Fine grained sand, gray.				
				-					
				5					
				-					
				-					
				6					
				-					
				-					
				7					
				-					
				-					
			8	EOB					
			-						
			-						
			9						
			-						
			-						
			10						
			-						
			-						
			11						
			-						
			-						
			12						

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-7			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches			
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4'6" BSG	Comments			
				Start Date 8/20/2009	Well Name N/A				
				Completion Date 8/20/2009	Grid Location				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS	
	28"		0	0-8" WELL GRADED SAND Medium grained sand with gravel, brown.		SW		Fill-non-native material	
			-						
			-						
			-						
			-						
			-						
	29"			1	8-28" COAL Black coal, ash, wood debris.				Wet @ 4'6" BSG
				-					
				-					
				-					
				-					
				-					
			2	0-3" COAL Black coal, ash, wood debris.		SW			
			-						
			-						
			-						
			-						
			-						
			3	3-29" WELL GRADED SAND Fine grained sand, wet, grayish-brown.					
			-						
			-						
			-						
			-						
			-						
			4	EOB					
			-						
			-						
			-						
			-						
			-						
			5						
			-						
			-						
			-						
			-						
			-						
			6						
			-						
			-						
			-						
			-						
			-						
			7						
			-						
			-						
			-						
			-						
			-						
			8						
			-						
			-						
			-						
			-						
			-						
			9						
			-						
			-						
			-						
			-						
			-						
			10						
			-						
			-						
			-						
			-						
			-						
			11						
			-						
			-						
			-						
			-						
			-						
			12						
			-						
			-						
			-						
			-						
			-						

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-8		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 5' BSG	Comments		
				Start Date 8/20/2009	Well Name N/A			
				Completion Date 8/20/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	24"		0	<u>0-2" WELL GRADED GRAVEL</u>		GW		
			-	<u>2-24" COAL</u>				
			-	Black coal, ash, wood debris.				
			-					
			1					
			-					
			-					
			2					
			-					
			-					
			3					
			-					
			-					
			4	<u>0-8" WOOD DEBRIS</u>				
			-					
			-					
	38"		5	<u>8-38" WELL GRADED SAND</u>		SW		Wet @ 5' BSG
			-	Fine grained sand, gray, wet.				
			-					
			-					
			-					
			-					
			-					
			-					
			8	EOB				
			-					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number		
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-9		
Site Address/Location				Technician	Drilling Method	Borehole Diameter		
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches		
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments		
City of Marquette				99-059	4'6" BSG			
				Start Date	Well Name			
				8/20/2009	N/A			
				Completion Date	Grid Location			
				8/20/2009				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	29"		0	<u>0-3" GRAVEL</u>				
			-	<u>3-5" ROCK</u>				
			-	<u>5-27" COAL</u>				
			-	Black coal, ash, debris.				
			-	1				
			-	-				
			-	-				
			-	-				
			-	2				
			-	-				
			-	-	<u>27-29" TAR</u>			
			-	-				
			-	3				
		-	-					
		-	-					
	22"		4	<u>0-3" WOOD DEBRIS</u>				Wet @ 4'6" BSG
			-	<u>3-22" WELL GRADED SAND</u>		SW		
			-	Fine grained sand, wet, gray.				
			-	5				
			-	-				
			-	-				
			-	6				
		-	-	EOB				
		-	-					
		-	-					
		-	-					
		-	8					
		-	-					
		-	-					
		-	-					
		-	9					
		-	-					
		-	-					
		-	-					
		-	10					
		-	-					
		-	-					
		-	-					
		-	11					
		-	-					
		-	-					
		-	-					
		-	12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-11			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches	
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth N/A		Comments	
				Start Date 8/20/2009		Well Name N/A			
				Completion Date 8/20/2009		Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH				USCS	PID	REMARKS
			0 - - - - 1 - - - - 2 - - - - 3 - - - - - 4 - - - - 5 - - - - 6 - - - - 7 - - - - 8 - - - - 9 - - - - 10 - - - - 11 - - - - 12	Refusal at 6" EOB					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-13		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth 5' BSG		Comments
				Start Date 8/20/2009		Well Name N/A		
				Completion Date 8/20/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	12"		0	0-12" COAL Black coal, wood debris.				
			1					
			2					
			3					
	14"		4	0-4" WOOD DEBRIS				
			5	4-14" WELL GRADED SAND Fine grained sand, wet, gray.		SW		Wet @ 5' BSG
			6	EOB				
			7					
			8					
			9					
			10					
			11					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-15		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 5' BSG	Comments		
				Start Date 8/20/2009	Well Name N/A			
				Completion Date 8/20/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS	
	24"		0	<u>0-12" WELL GRADED SAND</u> Fine grained sand, brown.	SW			
			1	<u>12-24" COAL</u> Black coal, ash, debris.				
			2					
			3					
			4					
			5					
	10"			4	<u>0-7" COAL</u> Black coal, debris.			
				5	<u>7-10" WELL GRADED SAND</u> Fine grained sand, gray.	SW		Wet @ 5' BSG
				6				
				7				
				8				
				9				
			10					
			11					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number		
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-16		
Site Address/Location				Technician	Drilling Method	Borehole Diameter		
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches		
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments		
City of Marquette				99-059	5' BSG			
				Start Date	Well Name			
				8/20/2009	N/A			
				Completion Date	Grid Location			
				8/20/2009				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
28"			0	0-5" WELL GRADED SAND		SW		
			-	Fine grained sand, dark brown.				
			-	5-14" WELL GRADED SAND		SW		
			-	Medium grained sand, reddish-brown.				
			-	14-20" COAL				
			-	Black coal, ash, debris.				
			-	20-28" WELL GRADED SAND		SW		
			-	Fine grained sand, dark brown.				
			-					
			-					
			-					
			12"			4	0-5" WOOD DEBRIS	
-								
-	5-12" WELL GRADED SAND					SW		
-	Fine grained sand, gray.							
-								
-								
			8	EOB				
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-17			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches			
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 5' BSG	Comments			
				Start Date 8/20/2009	Well Name N/A				
				Completion Date 8/20/2009	Grid Location				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS	
	14"		0	<u>0-4" WELL GRADED SAND</u> Fine grained sand, black.		SW			
			-	<u>4-6" ROCK</u>					
			-	<u>6-7" WELL GRADED SAND</u> Fine grained sand, black.		SW			
			-	<u>7-14" WELL GRADED SAND</u> Fine grained sand, dark brown.		SW			
			-	1					
			-	-					
			-	-					
			-	-					
			-	-					
			-	2					
			-	-					
			-	-					
			-	-					
			-	-					
	22"		4	<u>0-4" WELL GRADED SAND</u> Fine grained sand, dark brown.		SW			
			-	<u>4-22" WELL GRADED SAND</u> Fine grained sand, gray.		SW			
			-	-					
			-	-					
			-	5					Wet @ 5' BSG
			-	-					
			-	-					
			-	-					
			-	-					
			-	6					
		-	-	EOB					
		-	-						
		-	-						
		-	-						
		-	8						
		-	-						
		-	-						
		-	-						
		-	9						
		-	-						
		-	-						
		-	-						
		-	10						
		-	-						
		-	-						
		-	-						
		-	11						
		-	-						
		-	-						
		-	-						
		-	12						

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-19		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth N/A	Comments		
				Start Date 8/21/2009	Well Name N/A			
				Completion Date 8/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	27"		0	0-9" WELL GRADED SAND Medium grained sand with rocks, brown.		SW		
			1	9-27" COAL Black coal, debris.				
			2					
			3					
			4	0-8" ROCKS AND COAL Tar on rocks.				
		8"		5				
				6				
					EOB			
				7				
				8				
				9				
				10				
			11					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-27		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth N/A		Comments
				Start Date 8/21/2009		Well Name N/A		
				Completion Date 8/21/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
			0 - - - - 1 - - - 2	No characterization				
			- - - 3 - - - - - - 4	EOB				Refusal at 2' BSG
			- - - 5 - - - - - - 6 - - - - - 7 - - - - 8					
			- - - 9 - - - - - 10 - - - - - 11 - - - - 12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number		
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-29		
Site Address/Location				Technician	Drilling Method	Borehole Diameter		
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches		
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments		
City of Marquette				99-059	N/A			
				Start Date	Well Name			
				8/21/2009	N/A			
				Completion Date	Grid Location			
				8/21/2009				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	24"		0	0-10" POORLY GRADED SAND Medium grained sand, brown.		SP		
			1	10-24" BRICK Broken brick, red-orange.				
			2	EOB				
			3					
			4					
			5					
			6					
			7					
			8					
			9					
			10					
			11					
		12						
DDM		Geologist/Technician						
TAG		Reviewed						



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number		
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-30		
Site Address/Location				Technician	Drilling Method	Borehole Diameter		
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches		
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments		
City of Marquette				99-059	4'4" BSG			
				Start Date	Well Name			
				8/21/2009	N/A			
				Completion Date	Grid Location			
				8/21/2009				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	20"		0	0-9" POORLY GRADED SAND		SP		
			-	Medium grained sand, brown.				
			-					
			-					
			-					
			1	9-15" SILTY SAND		ML		
			-	Medium grained sand and silt, dark gray.				
			-					
			-					
			-					
			-					
			-					
	19"		2					
			-					
			-					
			-					
			-					
			3					
			-					
			-					
			-					
			-					
			-					
			-					
			4	0-4" DEBRIS				Saturated at 4'4" BSG
			-	Gravel and woody debris, brown.				
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			5	4-19" POORLY GRADED SAND		SP		
			-	Medium grained sand, saturated, brownish-gray.				
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			6					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			7					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			8					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			9					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			10					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			11					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
						12		
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-32		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4'6" BSG	Comments		
				Start Date 8/21/2009	Well Name N/A			
				Completion Date 8/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS	
	26"		0	0-4" POORLY GRADED SAND Medium grained sand, dark brown.	SP		Tar odor.	
			-	4-16" POORLY GRADED SAND Medium grained sand and gravel, brown.	SP			
			-					
			-					
			1					
			-					
			-		16-26" POORLY GRADED SAND Silty sand and gravel, black.	SP		
			-					
			2					
			-					
	23"		4	0-6" POORLY GRADED SAND Medium grained sand, organic material, black.	SP		Tar odor.	
			-					
			-		6-23" POORLY GRADED SAND Medium grained sand, saturated, dark gray.	SP		Saturated at 4'6" BSG Tar odor.
			5					
			-					
			-					
			6					
		-		EOB				
			-					
			-					
			8					
			-					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-33		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4'5" BSG	Comments		
				Start Date 8/21/2009	Well Name N/A			
				Completion Date 8/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	26"		0	0-6" POORLY GRADED SAND Medium grained sand, gravel, brown.	SP		Saturated at 4'5" BSG	
			-					
			-	6-26" SILTY SAND Silty sand and gravel, black.	ML			
			-					
			1					
			-					
	20"			2				
				-				
				-				
				3				
				-				
				-				
				4	0-5" SILTY SAND Silty sand, poorly graded, gravel, dark brown.	ML		
-								
-				5-16" SILTY SAND Silty sand, poorly graded, gravel, saturated, dark brown.	ML			
-								
5								
-								
			6	16-20" POORLY GRADED SAND Medium grained sand, saturated, dark gray.	SP			
			-					
			-					
			-					
			-					
			-					
			7	EOB				
			-					
			-					
			-					
			-					
			-					
			-					
			8					
			-					
			-					
			-					
			9					
			-					
			10					
			-					
			-					
			-					
			11					
			-					
			-					
			12					
			-					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number		
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-35		
Site Address/Location				Technician	Drilling Method	Borehole Diameter		
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches		
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments		
City of Marquette				99-059	4' BSG			
				Start Date	Well Name			
				8/21/2009	N/A			
				Completion Date	Grid Location			
				8/21/2009				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	23"		0	0-18" WELL GRADED SAND		SW		
			-	Medium grained sand, brown.				
			-					
			-					
			-					
			1					
			-					
			-					
			-					
			-					
	21"		4	0-16" SILTY SAND		ML		Saturated at 4' BSG Tar odor.
			-	Silty sand, saturated, black.				
			-					
			-					
			-					
			5					
			-					
			-					
			-					
			-					
			6	16-21" POORLY GRADED SAND		SP		Tar odor.
			-	Medium grained sand, saturated, black.				
			-					
			-					
			-					
			7					
			-					
			-					
			-					
			-					
			8	EOB				
			-					
			-					
			-					
			-					
			9					
			-					
			-					
			-					
			-					
			10					
			-					
			-					
			-					
			-					
			11					
			-					
			-					
			-					
			-					
			12					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					
			-					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-36		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 2' BSG	Comments		
				Start Date 8/21/2009	Well Name N/A			
				Completion Date 8/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	25"		0	0-11" POORLY GRADED SAND Medium grained sand, trace gravel, brown.		SP		Saturated at 2' BSG
			1	11-22" POORLY GRADED SAND Medium grained sand and gravel, brown.		SP		
			2	22-25" SILTY SAND Silty sand and gravel, saturated, black.		ML		
			3					
			4	EOB				
			5					
			6					
			7					
			8					
			9					
			10					
			11					
		12						

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-38				
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches				
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4' BSG	Comments				
				Start Date 8/21/2009	Well Name N/A					
				Completion Date 8/21/2009	Grid Location					
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS		
	32"		0	0-10" POORLY GRADED SAND Medium grained sand and gravel, reddish-brown.		SP				
			1	10-27" POORLY GRADED SAND Medium grained sand and gravel, charcoal, black.		SP				
			2	27-32" SILTY SAND Silty sand, brownish-black.		SM				
			3							
			4	0-20" POORLY GRADED SAND Medium grained sand, dark gray.		SP			Saturated at 4' BSG.	
		20"		5						
				6						
				7	EOB					
				8						
				9						
			10							
		11								
		12								

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-40		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4'2" BSG	Comments		
				Start Date 8/21/2009	Well Name N/A			
				Completion Date 8/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS	
	27"		0	0-7" POORLY GRADED SAND Medium grained sand, gravel, reddish-brown.	SP			
			-					
				-	7-20" SILTY SAND Silty sand, gravel, charcoal, black.	SM		
				-				
				1				
				-				
				-				
				-	20-27" TAR Tar, hard.			
				2				
				-				
				-				
				-				
	8"		4	0-2" TAR Tar, hard.				
			-					
				-	2-8" POORLY GRADED SAND Medium grained sand, saturated, black.	SP		Saturated at 4'2" BSG
				-				
				5				
				-				
				-				
				-				
				-				
				6	EOB			
				-				
				-				
			8					
			-					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-41		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 5'1" BSG	Comments		
				Start Date 8/21/2009	Well Name N/A			
				Completion Date 8/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS	
	24"		0	0-9" POORLY GRADED SAND Medium grained sand, trace gravel.	SP			
			-					
			-					
			-		9-21" SILTY SAND Silty sand, gravel, charcoal, black.	SM		
			-	1				
			-	-				
		22"		21-24" BROKEN CONCRETE				
			-					
			-	2				
			-	-				
			-	-				
			-	3				
			4	0-4" POORLY GRADED SAND Medium grained sand, broken concrete.	SP			
			-	4-13" POORLY GRADED SAND Medium grained sand, gravel, very dark purple.	SP	Strong petroleum odor.		
			-					
			5	13-22" POORLY GRADED SAND Medium grained sand, saturated, dark gray.	SP	Saturated at 5'1"		
			-					
			6					
			-					
			-					
			7					
			-					
			-					
			8	EOB				
			-					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-42		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth N/A		Comments
				Start Date 8/24/2009		Well Name N/A		
				Completion Date 8/24/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	19"		0	0-11" SILTY SAND Silty sand, trace gravel, poorly graded, brown.		SM		
			1	11-19" SILTY SAND Silty sand, charcoal and gravel, poorly graded, brown.		SM		
			2					
			3					
			4					
			5					
			6					
			7					
			8					
			9					
	8"		4	0-8" POORLY GRADED SAND Medium grained sand, charcoal, saturated, black.		SP		Saturated at 4' BSG
			5					
			6	EOB				Refusal at 6' BSG
			7					
			8					
			9					
			10					
			11					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-43		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth N/A	Comments		
				Start Date 8/24/2009	Well Name N/A			
				Completion Date 8/24/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS	
	18"		0	0-10" POORLY GRADED SAND Medium grained sand, trace gravel, brown.	SP			
			-					
				-				
				-				
				-				
				1	10-13" BROKEN CONCRETE Broken concrete and gravel.			
				-				
				-				
				-				
				2	EOB			Refusal at 2' BSG
				-				
				-				
			-					
			3					
			-					
			-					
			4					
			-					
			-					
			-					
			5					
			-					
			-					
			-					
			6					
			-					
			-					
			7					
			-					
			-					
			8					
			-					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number		
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-44		
Site Address/Location				Technician	Drilling Method	Borehole Diameter		
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches		
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments		
City of Marquette				99-059	4'11" BSG			
				Start Date	Well Name			
				8/20/2009	N/A			
				Completion Date	Grid Location			
				8/20/2009				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
			0	0-9" POORLY GRADED SAND		SP		
			-	Medium grained sand and gravel, brown.				
			-					
			-					
			-					
			1	9-11" CONCRETE				
			-	11-19" POORLY GRADED SAND		SP		
			-	Medium grained sand, gravel, brown.				
			-					
			-					
			2					
			-					
			-					
			3					
			-					
			-					
			4	0-5" POORLY GRAINED SAND		SP		
			-	Medium grained sand, dark brown.				
			-					
			-	5-11" POORLY GRADED SAND		SP		
			-	Medium grained sand, saturated, black.				
			5					Refusal at 5' BSG
			-	EOB				
			-					
			-					
			6					
			-					
			-					
			7					
			-					
			-					
			8					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-50		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth N/A		Comments
				Start Date 8/24/2009		Well Name N/A		
				Completion Date 8/24/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
			0 - - - - 1					Refusal at 16" BSG
			- - - - - 2 - - - - - 3 - - - - - 4	EOB				
			- - - - - 5 - - - - - 6 - - - - - 7 - - - - - 8					
			- - - - - 9 - - - - - 10 - - - - - 11 - - - - 12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-51		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth N/A	Comments		
				Start Date 8/20/2009	Well Name N/A			
				Completion Date 8/20/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	14"		0	0-14" POORLY GRADED SAND Medium grained sand, trace gravel, brown.		SP		
			1					
			2	EOB				Refusal at 2' BSG
			3					
			4					
			5					
			6					
			7					
			8					
			9					
			10					
			11					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-53		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth N/A	Comments		
				Start Date 8/24/2009	Well Name N/A			
				Completion Date 8/24/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS	
	31"		0	0-11" SILTY SAND Silty medium grained sand, trace gravel, brown.	SM			
				1	11-31" ORGANIC SOIL Organic material, black.	OL		
				2				
				3				
				4	0-10" ORGANIC SOIL Organic material, woody debris, black.	OL		
				5	10-24" POORLY GRADED SAND Medium grained sand, saturated, gray.	SP		Saturated at 4'10" BSG
				6	EOB			Refusal at 6' BSG
				7				
				8				
				9				
				10				
				11				
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-58			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches	
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth 4'10" BSG		Comments	
				Start Date 8/24/2009		Well Name N/A			
				Completion Date 8/24/2009		Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS		
	30"		0	0-20" POORLY GRADED SAND Medium grained sand, gravel, brown to reddish-brown.	SP				
			-						
			-						
			-						
			-						
			1						
			-						
			-						
			-						
			-						
	42"		2	20-30" SILTY SAND Silty sand, charcoal and gravel, poorly graded, black.	SM		Tar odor. Saturated at 4'10" BSG		
			-						
			-						
			-						
			-						
			3						
			-						
			-						
			-						
			-						
			4	0-10" SILTY SAND Silty sand, charcoal and gravel, poorly graded, black.	SM				
			-						
			-						
			-						
			-						
			5			10-28" SILTY SAND Silty sand, gravel, saturated, black.		SM	
			-						
			-						
			-						
			-						
			6	28-31" ORGANIC SOIL Organic material, black.	OL				
			-						
			-						
			-						
			-						
			7			31-42" POORLY GRADED SAND Medium grained sand, saturated, grayish-brown.		SP	
			-						
			-						
			-						
			-						
			8	EOB					
			-						
			-						
			-						
			-						
			9						
			-						
			-						
			-						
			-						
			10						
			-						
			-						
			-						
			-						
			11						
			-						
			-						
			-						
			-						
DDM		Geologist/Technician							
TAG		Reviewed							



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number		
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-59		
Site Address/Location				Technician	Drilling Method	Borehole Diameter		
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches		
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments		
City of Marquette				99-059	N/A			
				Start Date	Well Name			
				8/24/2009	N/A			
				Completion Date	Grid Location			
				8/24/2009				
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	28"		0	0-13" POORLY GRADED SAND	SP			
			-	Medium grained sand, trace gravel, reddish-brown.				
			-					
			-					
			-					
			-					
	-	1	13-28" SILTY SAND	SM		Mild tar odor.		
	-	Silty sand, charcoal, gravel, black.						
	-							
	-							
	-							
	-							
	-	2		SM				
-								
-								
-								
-								
-								
-	3		SM					
-								
-								
-								
-								
-								
-	4	0-2" SILTY SAND	SM					
-	Silty sand, charcoal, gravel, black.							
-	2-28" POORLY GRADED SAND	SP						
-	Medium grained sand, impacted, black.							
-								
-								
-								
-								
-	5		SP					
-								
-								
-								
-								
-								
-	6	28-33" POORLY GRADED SAND	SP					
-	Medium grained sand, grayish-black.							
-								
-								
-								
-								
-	7							
-								
-								
-								
-								
-								
-	8	EOB						
-								
-								
-								
-								
-								
-	9							
-								
-								
-								
-								
-								
-	10							
-								
-								
-								
-								
-								
-	11							
-								
-								
-								
-								
-								
-	12							
-								
-								
-								
-								
-								

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name				Driller/Drill Rig		Boring Number				
Former Cliffs-Dow Plant Site, Marquette, MI				TriMedia/Geo Probe		SS-62				
Site Address/Location				Technician	Drilling Method	Borehole Diameter				
Wright St & Lakeshore Blvd, Marquette, MI				DDM	Direct Push	2.25 inches				
Site Owner (If different than above.)				Project Number	Groundwater Depth	Comments				
City of Marquette				99-059	N/A					
				Start Date	Well Name					
				8/24/2009	N/A					
				Completion Date	Grid Location					
				8/24/2009						
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS		
39"			0	0-12" POORLY GRADED SAND		SP				
			-	Medium grained sand and gravel, dark brown.						
			-							
			-							
			-							
			-							
			1	12-22" SILTY SAND					SM	
			-	Silty sand and gravel, poorly graded, brown and black.						
			-							
			-							
			-							
			-							
2	22-24" BROKEN GRANITE		SM							
-	24-39" SILTY SAND									
-	Silty sand, charcoal and gravel, poorly graded, black.									
-										
-										
-										
-										
-										
-										
-										
-										
26"					4	0-4" BROKEN ROCK AND GRAVEL		SM		
			-	4-20" SILTY SAND						
			-	Silty sand, charcoal and gravel, poorly graded, black.						
			-							
			-							
			-							
			5			SM				
			-							
			-							
			-							
			-							
			-							
-										
-										
-										
-										
-										
6			SM							
-	20-24" SILTY SAND									
-	Silty medium sand and gravel, poorly graded, black.									
-										
-										
-										
-										
-										
-										
-										
-										
8										
-										
-										
-										
-										
-										
-										
-										
-										
-										
-										
9										
-										
-										
-										
-										
-										
-										
-										
-										
-										
-										
10										
-										
-										
-										
-										
-										
-										
-										
-										
-										
-										
11										
-										
-										
-										
-										
-										
-										
-										
-										
-										
-										
12										
-										
-										
-										
-										
-										
-										
-										
-										
-										
-										

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-64		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2.25 inches
Site Owner (If different than above.) City of Marquette				Project Number 99-059		Groundwater Depth N/A		Comments
				Start Date 8/24/2009		Well Name N/A		
				Completion Date 8/24/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
			0	No characterization.				
			-					Refusal
			-	EOB				
			-					
			1					
			-					
			-					
			2					
			-					
			-					
			3					
			-					
			-					
			4					
			-					
			-					
			5					
			-					
			-					
			6					
			-					
			-					
			7					
			-					
			-					
			8					
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name Former Cliffs-Dow Plant Site, Marquette, MI				Driller/Drill Rig TriMedia/Geo Probe		Boring Number SS-67		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2.25 inches		
Site Owner (If different than above.) City of Marquette				Project Number 99-059	Groundwater Depth 4'6" BSG	Comments		
				Start Date 8/25/2009	Well Name N/A			
				Completion Date 8/25/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS	
	30"		0	0-9" SILTY SAND Silty medium grained sand, gravel, poorly graded, dark brown.	SM			
				-				
				-				
				-				
				-				
				1	9-25" POORLY GRADED SAND Medium grained sand, gravel, reddish brown.	SP		
				-				
				-				
				-				
				-				
				2	25-30" ORGANIC SOIL Organic material, very dark brown.	OL		
				-				
			-					
			3					
			-					
			-					
	24"		4	0-6" ORGANIC SOIL Organic material, wood debris, very dark brown.	OL		Saturated at 4'6" BSG	
				-				
				-				
				-				
				-				
				5	6-24" POORLY GRADED SAND Medium grained sand, saturated, gray.	SP		
				-				
				-				
				-				
				-				
				6	EOB			
				-				
			-					
			-					
			-					
			7					
			-					
			-					
			-					
			-					
			8					
			-					
			-					
			-					
			-					
			9					
			-					
			-					
			-					
			10					
			-					
			-					
			-					
			11					
			-					
			-					
			-					
			12					

DDM	Geologist/Technician
TAG	Reviewed



