

## **Appendix 2.5DD    Boring Logs, Monitoring Well Logs, Piezometer Logs, and Test Pit Logs**

This appendix contains geotechnical boring logs that are the basis for discussion in [Section 2.5](#). The logs are of soil and rock borings and represent a record of subsurface conditions at the Fermi 3 site.

### Log Terminology and Symbols

See ASTM D2487 & D2488 for details on standard practice for description and identification of soils.

#### General

Date Started	- Date boring was started
Date Finished	- Date boring was completed to depth
SPT	- Split Spoon Sample / Standard Penetration Test
TW	- Thin Wall Sample
CA	- California Sample
S	- Sonic Sample
GP	- Geoprobe Sample
NSF	- National Sanitation Foundation
PP	- Pocket Penetrometer Readings
TV	- Torvane Readings
NQ	- Wireline Diamond Core Drill Bit Size
HQ	- Wireline Diamond Core Drill Bit Size
PQ	- Wireline Diamond Core Drill Bit Size
N Value	- Number of blows to drive a standard split spoon sampler 12 inches with a 140-pound weight falling 30 inches
RQD Recovery	- A modified core run recovery in which all pieces of sound core over 4 inches in length are summed
RQD	- The RQD Recovery expressed as a percentage of the total length of the core run
-----	- Approximate or gradational material change in classification column
@	- At
w/	- With
&	- And
WOR	- Weight of rods

WOH	- Weight of hammer
ID	- Inside diameter
OD	- Outside diameter
NR	- Not Recorded
Indurated	- Rock hardened by heat, pressure, or cementation
Healed	- Rock cemented by mineral precipitation, can be either induration or filling of fractures
Poorly Indurated	- Rock that is not hardened into solid rock
Broken	- Rock that is fractured and not recemented, sandy/gravelly in recovered core

#### Weathering

Fresh	- Rock shows no dissolution, loss of strength, or other effects due to weathering (unweathered rock).
Slightly Weathered	- Rock is slightly discolored with a slightly lower strength than unweathered rock.
Moderately Weathered	- Rock is considerably discolored with a slightly lower strength than unweathered rock.
Highly Weathered	- Rock is discolored and weakened so intensely that 2-inch diameter rock cores can be broken readily by hand. Wet strength is usually much lower than dry strength.

#### Bedding








Laminated	- Less than 0.02 feet (0.25 inch)
Thin Bedded	- 0.21 to 0.5 feet (2.5 to 6 inches) in rock
Medium Bedded	- 0.5 to 1.0 foot (6 to 12 inches) in rock
Thick Bedded	- 1.0 to 2.0 feet (12 to 24 inches) in rock
Massive	- Greater than 2.0 feet (24 inches) in rock
Parting	- Less than 0.021 feet (less than 0.25 inch) in rock
Band(ed)	- 0.021 to 0.21 feet (0.25 to 2.5 inches) in rock
Intermingled	- Two lithologies or material types that are mixed in a non-layered manner
Convolut ed	- Bedding that is wavy
Contorted	- Bedding that is wavy and/or twisted
Nodule	- Small rounded mass or lump of a mineral within a sedimentary sequence



### Discontinuity

Angle in degrees	- Represents the angle in degrees measured from a plane perpendicular to the longitudinal axis of the sample
J, V, B	- Represents the type of the discontinuity [J = Joint, V = Vein, B = Bedding]
W, MW, N, VN, T	- Represents the aperture of the discontinuity [W = Wide (0.5 to 2.0 inches), MW = Moderately Wide (0.1 to 0.5 inches), N = Narrow (0.05 to 0.1 inches), VN = Very Narrow (<0.05 inches), T = Tight (0 inches)]
Cl, Ca, Ch, Fe, Gy, H, No, Qz, Sd, UK	- Represents the type of infilling in the discontinuity [Cl = Clay, Ca = Calcite, Ch = Chlorite, Fe = Iron Oxide, Gy = Gypsum/Talc, H = Healed, No = None, Qz = Quartz, Sd = Sand, UK = Unknown]
Su, Sp, Pa, Fi, No	- Represents the amount of infilling in the discontinuity [Su = Surface Stain, Sp = Spotty, Pa = Partially Filled, Fi = Filled, No = None]
WA, PI, St, Ir	- Represents the planarity of the discontinuity [WA = Wavy, PI = Planar, St = Stepped, Ir = Irregular]
Slk, S, SR, R, VR	- Represents the roughness of the surface of the discontinuity [Slk = Slickensided (surface has smooth, glassy finish with visual evidence of striations), S = Smooth (surface appears and feels smooth to the touch), SR = Slightly Rough (asperities on the discontinuity surfaces are distinguishable and can be felt), R = Rough (some ridges and side-angle steps are evident; asperities are clearly visible, and discontinuity surface feels very abrasive), VR = Very Rough (near-vertical steps and ridges occur on the discontinuity surface)]
Solutioned	- A chemical weathering process in which soluble minerals have been dissolved along a discontinuity. The fracture surface has rounded mineral particles and can be pitted. The rock surface may have a porous appearance. The walls of the fracture no longer match. The surface is discolored and may have evidence of water movement such as small rounded channels and grooves. The fracture surface and the rock mass are discolored and the degree of discoloration decreases away from the fracture. The discolored rock mass is softer than the fresh rock mass. The fracture opening may have clay infilling.

### Symbols Legend

	Sonic Sampler
	Bulk/Discrete sample
	Standard penetration test
	Undisturbed thin walled tube
	Rock core
	Geoprobe
	California sampler

The appendix contains the following logs:

Boring Logs

MW-381D  
MW-381S  
MW-383D  
MW-383S  
MW-384D  
MW-384S  
MW-386D  
MW-386S  
MW-387D  
MW-387S  
MW-388S  
MW-390S  
MW-391D  
MW-391S  
MW-391Sa  
MW-393D  
MW-393S  
MW-395D  
MW-395S  
P-382S  
P-385D  
P-385S  
P-389S  
P-392S  
P-396S  
P-397S  
P-398D  
P-398S  
P-399D  
P-399P  
CB-C1  
CB-C2  
CB-C3  
CB-C4  
CB-C5  
CST-AB1  
CT-E1  
EB/TSC-C2  
EB/TSC-E3  
FO-E1  
FWS/ACB-C1  
FWS/ACB-C1a  
HM-E1  
PS-E1

RB-C1  
RB-C2  
RB-C3  
RB-C4  
RB-C4a  
RB-C5  
RB-C6  
RB-C7  
RB-C8  
RB-C9  
RB-C10  
RB-C11  
RB-C12  
RW-C1  
RW-C2  
RW-C3  
RW-C4  
TB-C1  
TB-C2  
TB-C3  
TB-C4  
TB-C5  
TB-C6  
WT-E1

Monitoring Wells Logs

MW-381D  
MW-381S  
MW-383D  
MW-383S  
MW-384D  
MW-384S  
MW-386D  
MW-386S  
MW-387D  
MW-387S  
MW-388S  
MW-390S  
MW-391D  
MW-391S  
MW-393D  
MW-393S  
MW-395D  
MW-395S

Piezometers Logs

P-382S  
P-385D  
P-385S  
P-389S  
P-392S  
P-396S  
P-397S  
P-398D  
P-398S  
P-399D  
CB-C5  
EB/TSC-C2

Test Pit Logs

TP-1

CLIENT										PROJECT										PROJECT NO.																			
Detroit Edison										Fermi 3 COL Application										147483																			
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																								
Monroe, Michigan					N 5304.6'					E 1843.0'					579.8 ft (NAVD 88)		99.0 (feet)																						
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																						
Grass covered area adjacent to woods										Plant					05/19/07		05/21/07																						
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																			
										Grainger/Deeken					Dogbey/Meyer					Meyer																			
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE										RUN NUMBER					RUN LENGTH					RUN RECOVERY					RQD RECOVERY					PERCENT RECOVERY					RQD				
SPT										1					3					9					15					24					1.3				
TW										2																				0.3									
SPT										3					10					22					22					44					1.4				
SPT										4					16					17					10/0					27					0.5				

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-381D

SHEET 2 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5304.6' E 1843.0'										GROUND ELEVATION (DATUM) 579.8 ft (NAVD 88)		TOTAL DEPTH 99.0 (feet)	
SURFACE CONDITIONS Grass covered area adjacent to woods										COORDINATE SYSTEM Plant										DATE START 05/19/07		DATE FINISHED 05/21/07	
SAMPLING										LOGGED BY <i>for Grainger/Deeken</i>										CHECKED BY <i>for Dogbey/Meyer</i>		APPROVED BY <i>for Meyer</i>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																	
CORING																							
PQ	2	5.0	5.0	3.4	100	68		15		564		90°, J, VN, No, PI, R @ 15.4-16.0'				No drill water return @ 17.8'							
							16		563	fractured @ 16.8-17.3'													
							17		562	0°, B, N, CI, Pa, PI, SR @ 15.9', 16.8', 17.3', 17.6'													
							18		561	90°, J, VN, No, PI, R @ 18.4-19.6'													
			19.0				19		560	0°, B, N, CI, Pa, PI, SR @ 19.4', 19.9'													
							20		559	90°, J, VN, No, PI, R @ 20.2-21.2'													
PQ	3	5.0	5.0	2.3	100	46		21		558		0°, B, N, CI, Pa, PI, SR @ 20.6', 20.8', 21.0'											
							22		557	80°, J, N, CI, Pa, PI, SR @ 21.3'													
							23		556	0°, B, N, CI, Pa, PI, SR @ 21.7'													
							24		555	0°, B, N, CI, Pa, PI, SR @ 23.5'													
			24.0				25		554	0°, B, N, CI, Pa, PI, SR @ 24.0'													
							26		553	30°, J, N, CI, Pa, PI, SR @ 24.8', 25.2', 25.8'													
PQ	4	5.0	5.0	2.1	100	42		27		552		DOLOMITE; argillaceous; very fine grained; moderately weathered; strong; moderately hard; thin bedded; (Bass Islands Group). highly fractured @ 25.8-26.4'				Core box #2 starts @ 21.7'							
							28		551	30°, J, N, CI, Pa, PI, SR @ 26.4', 27.0', 27.5'													
							29		550	0°, B, N, CI, Pa, PI, SR @ 28.2'													
			29.0				30		550	vugs to 3/4" @ 29.5'													
												30°, J, N, CI, Pa, PI, SR @ 30.0'											

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, Michigan		N 5304.6' E 1843.0'		579.8 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Grass covered area adjacent to woods		Plant		05/19/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainder/Deeken		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Meyer		05/2	





## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-381D

SHEET 5 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5304.6' E 1843.0'										GROUND ELEVATION (DATUM) 579.8 ft (NAVD 88)										TOTAL DEPTH 99.0 (feet)																																																															
SURFACE CONDITIONS Grass covered area adjacent to woods										COORDINATE SYSTEM Plant										DATE START 05/19/07										DATE FINISHED 05/21/07																																																															
SAMPLING										LOGGED BY Grainger/Deeken										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	CORING								CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																						
CORING																																																																																													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																																																						
PQ 11 5.0 5.0 2.1 100 42								60																														0°, B, N, No, No, PI, R @ 60.4', 60.9'										Core box #7 starts @ 69.0'																																													
								61										519																				0°, B, N, No, No, PI, R @ 61.2'																																																							
								62										518																				80°, J, N, H, Pa @ 61.5-62.0'																																																							
								63										517																				0°, B, N, No, No, PI, R @ 62.0'																																																							
								64										516																				80°, J, N, H, Pa @ 62.3-63.0'																																																							
								65										515																				highly fractured @ 63.4-63.9'																																																							
								66										514																				0°, B, N, No, No, PI, R @ 63.4'-63.9'																																																							
								67										513																				1/2" black shale band @ 63.9'																																																							
								68										512																				90°, J, N, Cl, Sp, PI @ 64.1-66.0'																																																							
								69										511																				5°, B, N, Cl, Sp, PI @ 64.5'																																																							
								70										510																				5°, B, N, Cl, Sp, PI @ 65.3'																																																							
								71										509																				2" black shale band @ 67.5'																																																							
								72										508																				grades brown, pitted to 1/4" @ 67.0'																																																							
								73										507																				5°, B, N, Cl, Sp, PI @ 67.2', 67.5'																																																							
								74										506																				highly fractured @ 67.5'-69.0'																																																							
								75										505																				90°, J, N, Cl, Sp, PI @ 67.7-69.0'																																																							
																																						5°, B, N, Cl, Su, PI/Ir, Sr @ 69.5', 69.7'																																																							
																																						65°, J, N, No, No, PI @ 69.9'																																																							
																																						5°, B, N, Cl, Su, PI/Ir, Sr @ 70.2', 70.6'																																																							
																																						1/8" black shale parting @ 71.1'																																																							
																																						5°, B, N, Cl, Su, PI/Ir, Sr @ 71.1'																																																							
																																						highly fractured @ 71.2-73.0'																																																							
																																						1/8" black shale parting @ 72.2'																																																							
																																						5°, B, N, Cl, Su, PI/Ir, Sr @ 73.6'																																																							
																																						grades brown, brecciated @ 74.0'																																																							
																																						75°, J, N, Cl, Su, PI @ 74.3-75.4'																																																							
																																						grades oolitic @ 74.5'																																																							

**BLACK & VEATCH**

## BORING LOG

**BORING NO. MW-381D**

**SHEET 6 OF 7**

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, Michigan				N 5304.6'				E 1843.0'				579.8 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Grass covered area adjacent to woods						Plant				05/19/07		05/21/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Grainger/Decker				Dogbey/Meyer		Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	14	5.0	5.0	1.0	100	20	75				highly fractured @ 75.9-78.4'	Core box #8 starts @ 79.0'	
							76				DOLOMITE; argillaceous; light to dark gray; very fine grained; moderately weathered; moderately strong; moderately hard; (Bass Islands Group). 90°, J,N,Ci,Su,PI @ 76.1-77.5' gray clay band @ 77.0-77.4'		
							77						
							78						
							79						
							80						
							81						
							82						
							83						
							84						
PQ	15	5.0	5.0	3.1	100	62	79				0°, B,N,Ci,Sp,PI @ 79.3' fissile @ 79.7-80.6' 0°, B,N,Ci,Sp,PI @ 79.8' 0°, B,N,Ci,Sp,PI @ 80.3', 80.6'	Core box #9 starts @ 89.0'	
							80						
							81						
							82						
							83						
							84						
							85						
							86						
							87						
							88						
PQ	16	5.0	5.0	2.8	100	56	84				DOLOMITE; light gray; very fine grained; slightly weathered; strong; hard; (Bass Islands Group). 0°, B,N,Ci,Sp,PI,SR @ 84.6' 0°, B,N,Ci,Sp,PI,SR @ 85.2', 85.8'	Core box #9 starts @ 89.0'	
							85						
							86						
							87						
							88						
							89						
							90						
							91						
							92						
							93						

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-381D

SHEET 7 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5304.6' E 1843.0' 579.8 ft (NAVD 88)										TOTAL DEPTH 99.0 (feet)																			
SURFACE CONDITIONS Grass covered area adjacent to woods										COORDINATE SYSTEM Plant										DATE START 05/19/07										DATE FINISHED 05/21/07									
SAMPLING										LOGGED BY <i>EOB</i> Grainger/Deekery										CHECKED BY <i>EM</i> Dogbey/Meyer										APPROVED BY <i>EM</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																										
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																										
PQ	17	5.0	5.0	2.7	100	54		90				90°, J, N, No, No, PI, R @ 89.7-90.8'																											
								91		489		0°, B, N, Cl, Sp, PI, SR @ 90.2', 90.7'																											
								92		488		0°, B, N, Cl, Sp, PI, SR @ 91.3'																											
								93		487		90°, J, N, No, No, PI, R @ 92.3-93.1'																											
								94		486		highly fractured @ 92.8-93.1'																											
								95		485		0°, B, N, Cl, Sp, PI, SR @ 92.8', 92.9'																											
								96		484		0°, B, N, Cl, Sp, PI, SR @ 93.3'																											
PQ	18	5.0	5.0	4.6	100	92		97		483		0°, J, MW, Qz Pa, PI, R @ 94.0'																											
								98		482		0°, B, N, Cl, Sp, PI, SR @ 94.3'																											
								99		481		grades vuggy to 1/2" @ 95.0'																											
								100		480		0°, J, MW, Qz Pa, PI, R @ 97.5'																											
								101		479		0°, J, MW, Qz Pa, PI, R @ 98.6'																											
								102		478																													
								103		477																													
								104		476																													
								105		475																													
													Bottom of boring @ 99.0'. Water level not recorded @ completion of drilling. Monitoring well installed 06/04/07.																										

**BLACK & VEATCH**

# BORING LOG

BORING NO. MW-381S

**SHEET 1 OF 1**

CLIENT						PROJECT				PROJECT NO.		
Detroit Edison						Fermi 3 COL Application				147483		
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH			
Monroe, Michigan			N 5306.7'			E 1838.4'			579.9 ft (NAVD 88) 9.5 (feet)			
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED		
Grassy area next to Fermi Drive						Plant		05/19/07		05/29/07		
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY		
						Onlmacher/Deeken		Emfa Dogbey		Meyer Em		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
											Undifferentiated Overburden (see log for MW-381D)	Boring advanced w/vacuum excavation.
							0					
							1		579			
							2		578			
							3		577			
							4		576			
							5		575			
							6		574			
							7		573			Below 6.0' continued w/4 1/4" ID, 8" OD hollow stem augers.
							8		572			
							9		571			
							10		570			Bottom of boring @ 9.5'. Water level not recorded. Monitoring well installed on 05/29/07.
							11		569			
							12		568			
							13		567			
							14		566			
							15		565			



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-383D

SHEET 1 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 5805.4'		GROUND ELEVATION (DATUM) E 3435.7'		582.3 ft (NAVD 88)		TOTAL DEPTH 101.0 (feet)		
SURFACE CONDITIONS Grassy field				COORDINATE SYSTEM Plant		DATE START 05/09/07		DATE FINISHED 05/15/07				
SAMPLING				LOGGED BY <i>GCO</i> Grainger/Ohlmacher		CHECKED BY <i>GCO</i> Dogbey/Ohlmacher		APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY					
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG		CLASSIFICATION OF MATERIALS			REMARKS				
0	S	1		5.0			3.0	0	582		Lean CLAY (CL) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; olive black; very soft; moist; no reaction w/HCl; homogeneous; (Topsoil-Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
1								581	Lean CLAY (CL) - About 95% low plasticity, medium toughness; no dilatancy, medium to high dry strength fines; about 5% fine to coarse, subrounded, hard sand; dark yellowish brown; firm; moist; strong reaction w/ HCl; homogeneous; (Fill).			
2								580				
3								579				
4								578				
5								5	577		Discrete sample collected from S1 @ 4.6-5.0'.	
6	S	2					4.3	6	576			
7								575				
8								574				
9								573				
10								572				
11	S	3		10.0			5	11	571		1/4" thick layer of wood @ 11.6'	
12								570	Lean CLAY (CL) - About 90% high plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine, rounded, hard sand; medium gray; firm; moist; swampy odor; strong reaction w/HCl; homogeneous.			
13								569				
14								568				
15								568				
15								15	568		Lean CLAY (CL) - About 100% medium plasticity, low toughness, no dilatancy, high dry strength fines; dark gray; firm; moist; swampy odor; strong reaction w/HCl;	Discrete sample collected from S3 @ 14.7-15.0'.

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-383D

SHEET 2 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, Michigan				COORDINATES N 5805.4'		GROUND ELEVATION (DATUM) E 3435.7'		582.3 ft (NAVD 88)		TOTAL DEPTH 101.0 (feet)	
SURFACE CONDITIONS Grassy field				COORDINATE SYSTEM Plant		DATE START 05/09/07		DATE FINISHED 05/15/07			
SAMPLING				LOGGED BY <i>600</i> Grainger/Ohlmacher		CHECKED BY <i>600</i> Dogbey/Ohlmacher		APPROVED BY <i>Em</i> Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY					
CORING											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG		CLASSIFICATION OF MATERIALS			REMARKS			
15	S	4	15.0			5.0	15		567	homogeneous; (Lacustrine Deposit).	Discrete sample collected from S4 @ 17.7-18.1'.
16							566			Lean CLAY (CL) - About 95% low plasticity, high toughness, no dilatancy, medium to high dry strength fines; about 5% fine to coarse, subrounded, hard sand; yellowish brown & brownish yellow mottled; firm; moist; strong reaction w/HCl; lensed/laminated; (Glacial Till).	
17							565				
18	S	5	20.0			5.0	18		564	Lean CLAY with Gravel (CL) - About 85% low plasticity, high toughness, no dilatancy, medium to high dry strength fines; about 10% fine to coarse, subrounded, hard gravel; about 5% fine to coarse sand; yellowish brown & brownish yellow mottled; firm; moist; strong reaction w/HCl; lensed/ laminated; (Glacial Till).	Discrete sample collected from S5 @ 22.8-23.2'.
19							563				
20							562				
21	S	6	25.0			NR	21		561	Lean CLAY with Sand (CL) - About 80% medium plasticity, medium toughness, no dilatancy, very high dry strength fines; about 10% fine to coarse, subrounded to angular, hard gravel; about 10% fine to coarse, rounded to angular sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Sampling from 28.0-29.0' is unknown
22							560				
23							559				
24			29.0				24		558	Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy, very high dry strength fines; about 15% fine to coarse, subrounded to angular, hard gravel; about 10% fine to coarse, rounded to angular sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Set nominal 6" temporary steel casing to 28'. Below 29' continued w/triple tube wire line core barrel w/
25							557				
26							556				
27							27		555	DOLOMITE; vuggy; gray; micritic; slightly weathered; strong; moderately hard; banded; 10% vugs; close joints; (Bass Islands Group).	
28							28		554	highly fractured @ 29.0-29.4'	
29							29		553	15°, J, VN, T, No, No, St, R @ 29.7'	
30											



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-383D

SHEET 3 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5805.4' E 3435.7'										GROUND ELEVATION (DATUM) 582.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Grassy field										COORDINATE SYSTEM Plant										DATE START 05/09/07										DATE FINISHED 05/15/07									
SAMPLING										LOGGED BY <i>GEO</i> Grainger/Ohlmacher										CHECKED BY <i>GEO</i> Dogbey/Ohlmacher										APPROVED BY <i>EM</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
PQ	1	2.0	1.8	0.7	90	35	30		552		highly fractured @ 30.0-30.1'										diamond bit using water as drilling fluid. Core box #1 starts @ 29.0'																		
			31.0				31		551		0°, J, W, No, No, PI, R @ 31.3'																												
							32		550		calcite in vugs, partial filling @ 31.4-31.6'																												
							33		549		0°, J, VN, No, No, PI, SR @ 32.6'																												
PQ	2	5	5	4.8	100	96	34		548																														
							35		547		0°, J, VN, No, No, PI, SR @ 35.1'										about 35% drill water return around 35'																		
							36		546		0°, J, VN, No, No, PI, R @ 35.4'																												
			36.0				37		545		brown weathering of dolomite near joint																												
							38		544		grades brownish gray @ 37.6'																												
PQ	3	5	4.2	3.9	84	78	39		543		25°, J, VN, No, No, St, R @ 38.4-38.6'										Core box #2 starts @ 38.5'																		
							40		542		grades gray @ 39.1'																												
							41		541		35°, J, VN, No, No, PI, R @ 40.0-40.2'										No drill water return @ 40.0'																		
							42		540		60°, J, VN, Ca, Pa, PI, SR @ 40.3-40.5'																												
			41.0				43		539		dark gray shale partings @ 41.0-41.4'																												
							44		538		highly fractured @ 41.1-41.4'																												
							45		538		highly fractured @ 41.8-41.9'																												
PQ	4	5	5	2.4	100	48	46		537		0°, J, T, No, No, St, SR @ 43.0'																												
							47		536		90°, J, T, No, No, PI, SR @ 43.1-46.0'																												
							48		535		0°, B, VN, No, No, PI, S @ 43.7'																												
							49		534		highly fractured @ 44.1-44.7'																												
							50		533		grades mottled light gray-dark gray; dark gray is staining along tight fractures, no vugs @ 44.4'																												

CLIENT										PROJECT										SHEET # OF									
Detroit Edison										Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, Michigan					N 5805.4'					E 3435.7'					582.3 ft (NAVD 88)					101.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Grassy field										Plant					05/09/07					05/15/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										GLO for Grainger/Ohlmacher					GLO Dogbey/Ohlmacher					EM Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																							
							45		537																				
			46.0				46		536		0° B,VN,No,No,PI,SR @ 46.5'																		
							47		535		fractured @ 46.9-47.0'																		
							48		534		grades banded gray, 10% vugs @ 47.0'																		
PQ	5	5	5	4.6	100	92	49		533		60° J,T,No,No,PI,SR @ 47.0-47.2'																		
							50		532		0° J,VN,No,No,PI,SR @ 47.9'																		
							51		531		shale parting - 0° B,VN,PI,SR @ 48.5'										Core box #3 starts @ 47.9'								
							52		530		10° J,VN,No,No,PI,SR @ 49.3'																		
PQ	6	4	3.1	0	78	0	53		529		90° V,VN,Ca,Fi,PI,SR @ 49.4-49.8																		
							54		528		highly fractured @ 50.2-50.4'																		
							55		527		highly fractured, loose fragments, no cementing @ 51.0-52.2'																		
PQ	7	1	1	1	100	100	56		526		90° J,VN,No,No,PI,SR @ 52.1-54.1', 52.1-53.0' (2 parallel joints)																		
							57		525		grades brownish gray, some fossil fragments & oolites @ 53. 3'																		
							58		524		highly fractured w/calcite infill up to 0.5" thick @ 54.0-54.5'																		
PQ	8	5	4.9	3.3	98	66	59		523		highly fractured; not cemented @ 54.5-54.8'																		
							60				grades gray, 10% vugs, no fossils, no oolites @ 54.8'										Drill water return <25% @ about 50'								
											10° J,VN,No,No,PI,SR @ 56.2'																		
											highly fractured @ 58.7-59.1'																		
											DOLOMITE; oolitic; brownish gray; very fine grained; slightly weathered; strong; moderately hard; banded;										Core box #4 starts @ 58.0'								



# BLACK & VEATCH

# BORING LOG

**BORING NO. MW-383D**

**SHEET 5 OF 7**

CLIENT						PROJECT							PROJECT NO.	
Detroit Edison						Fermi 3 COL Application							147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH		
Monroe, Michigan				N 5805.4'				E 3435.7'				582.3 ft (NAVD 88)		
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED		
Grassy field						Plant				05/09/07		05/15/07		
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY		
						Grainger/Ohlmacher				Dogbey/Ohlmacher		Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD								
							60		522		30% vugs; porous; (Bass Islands Group).			
											J,T,No,No,PI,SR @ 60.5-61.0'			
							61		521		60°,J,T,No,No,PI,SR @ 61.0-61.5'			
			61.0											
							62		520		<u>DOLOMITE</u> ; gray; very fine grained; slightly weathered; strong; moderately hard; banded; 10% vugs; (Bass Islands Group).			
											highly fractured @ 62.0-62.3'			
PQ	9	5	5	3.3	100	66	63		519		grades 0% vugs @ 62.3'			
											25°,J,VN,No,No,PI,SR @ 62.6'			
											20°,J,VN,No,No,WA,SR @ 63.3'			
							64		518		highly fractured @ 64.0-64.2'			
							65		517		10°,J,T,No,No,PI,S @ 64.6			
											J,T,No,No,PI,SR @ 64.9-65.6'			
											40°,J,T,No,No,PI,SR @ 65.3-65.7' (2 joints)			
			66.0				66		516					
											highly fractured @ 66.7-66.9'			
							67		515			Core box #5 starts @ 66.9'		
											0°,B,VN,No,No,PI,SR @ 67.3'			
PQ	10	5	4.0	1.5	80	30	68		514		0°,B,VN,No,No,PI,SR @ 67.7'			
											highly fractured, loose gravel @ 67.8-69.9'			
							69		513			Driller reported soft (clay) material		
							70		512		80°,J,T,No,No,PI,SR @ 69.7-70.5'			
											80°,J,T,No,No,PI,SR @ 70.2-70.5'			
			71.0				71		511		highly fractured @ 71.0-71.1'			
											highly fractured, loose gravel @ 71.3-71.6'			
							72		510					
											15°,J,T,No,No,PI,R @ 72.1'			
											80°,J,T,No,No,PI,SR @ 72.3-73.0'			
							73		509		highly fractured: loose gravel @ 72.4-72.5'			
PQ	11	5	4.8	3.7	96	74					grades about 10% vugs @ 73.1'			
											grades brecciated, indurated, tan-gray, strong, lots of stylolites @ 73.3'			
							74		508		highly fractured, loose gravel @ 73.4-73.6'			
											25°,J,T,No,PI,SR @ 74.3'			
							75							

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-383D

SHEET 6 OF 7

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483														
PROJECT LOCATION Monroe, Michigan					COORDINATES N 5805.4' E 3435.7'					GROUND ELEVATION (DATUM) 582.3 ft (NAVD 88)					TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Grassy field					COORDINATE SYSTEM Plant					DATE START 05/09/07					DATE FINISHED 05/15/07									
SAMPLING										LOGGED BY <i>GLO</i> Grainger/Ohlmacher					CHECKED BY <i>GLO</i> Dogbey/Ohlmacher					APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																		
							75		507		0°, J, T, No, No, PI, R, joint along stylolite @ 75.1'													
							76		506															
							77		505															
PQ	12	5	5.0	5	100	100	78		504		highly fractured, loose @ 78.5-78.6'					Core box #6 starts @ 77.3'								
							79		503															
							80		502		15°, J, T, No, No, PI, SR, joint along stylolite @ 79.6' grades gray, no breccia, no vugs @ 79.9' 20°, J, VN, No, No, PI, R @ 80.0' 0°, B, T, No, No, PI, S @ 80.4', 80.8', 81.3', 81.5'													
							81		501															
							82		500		highly fractured, very close spacing, loose; @ 81.8-85.6'													
PQ	13	5	4.4	0.0	88	0	83		499		90°, J, T, No, No, PI, SR @ 82.6-84.0', 84.4-85.3'													
							84		498															
							85		497															
							86		496		SHALE; dark gray to black; slightly weathered; weak; moderately hard; (Bass Islands Group).													
							87		495		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; (Bass Islands Group).													
							88		494		90°, J, T, No, No, PI, SR @ 85.6-86.0', 86.0-86.6' highly fractured, very close spacing to gravel like @ 86.0-87.9' 20°, J, T, No, No, PI, S @ 86.9' 50°, J, T, No, No, PI, SR @ 87.0-87.3', 87.7-88.0' 10°, J, VN, PI, SR @ 87.7'					Core box #7 starts @ 87.7'								
PQ	14	5	5.0	2.0	100	40	89		493		30°, J, T, No, No, Ir, R @ 88.4-88.6'													
							90				30°, J, T, No, No, Ir, R @ 89.0-89.3'													
											15°, J, T, Cl, Pa, PI, S @ 89.8'													

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-383D

SHEET 7 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 5805.4'		GROUND ELEVATION (DATUM) E 3435.7'		DATE START 05/09/07		TOTAL DEPTH 101.0 (feet)		
SURFACE CONDITIONS Grassy field				COORDINATE SYSTEM Plant		DATE START 05/09/07		DATE FINISHED 05/15/07				
SAMPLING				LOGGED BY <i>GLO</i> Grainger/Ohlmacher		CHECKED BY <i>GLO</i> Dogbey/Ohlmacher		APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							90		492		15°, J, T, Cl, Pa, Pl, S @ 90.1'	
											highly fractured, very close spacing; loose @ 90.4-91.0'	
			91.0				91		491		50°, J, T, No, No, Pl, SR @ 91.1-91.6'	
											highly fractured, very close spacing @ 91.3-91.6'	
							92		490		90°, J, T, No, No, Pl, SR @ 91.6-91.9'	
											0°, B, VN, No, No, Pl, S @ 91.9'	
											grades gradual increase to 10% vugs @ 91.9-92.2'	
							93		489		0°, B, VN, No, No, Pl, S @ 92.3'	
PQ	15	5	5.0	2.2	100	44					90°, J, T, No, No, Pl, SR @ 92.6-93.0'	
											10°, J, VN, No, No, Pl, SR @ 93.0'	
							94		488		0°, B, No, No, Pl, SR @ 93.3', 93.4'	
											fractured @ 93.3-93.4'	
							95		487		10°, J, T, No, No, Pl, SR @ 93.8'	
											highly fractured, loose @ 94.9-95.1'	
							96		486		0°, B, No, No, Pl, SR @ 95.3', 95.6' (2 parallel joints), 95.8'	
			96.0								0°, B, No, No, Pl, SR @ 96.3', 96.5'	
PQ	16	2.5	2.5	1.3	100	52	97		485		90°, J, T, No, No, Pl, SR @ 96.5-98.2'	
											highly fractured, loose @ 96.8-97.0'	
							98		484		highly fractured, very close spacing, loose @ 97.2-97.6'	
			98.5								90°, J, T, No, No, Pl, SR @ 98.2-98.5'	
							99		483		highly fractured, gravel like @ 98.5-98.8'	
PQ	17	2.5	2.0	0.0	80	0	100		482		90°, J, T, No, No, Pl, SR @ 98.8-100.2'	
											fractured, loose @ 100.2-100.4'	
							101		481			Bottom of boring @ 101'. Water level @ 15.6' @ completion of drilling. Monitoring well installed on 05/31/07.
							102		480			
							103		479			
							104		478			
							105					

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-383S


SHEET 1 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5809.1' E 3432.7'										GROUND ELEVATION (DATUM) 582.4 ft (NAVD 88)										TOTAL DEPTH 16.5 (feet)																															
SURFACE CONDITIONS Grassy field										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 05/16/07																															
SAMPLING										LOGGED BY Ohlmacher <i>GO</i>										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
SPT		1		3		3		3		6		1		0		582		581		580		Sandy Lean Clay (CL) - About 70% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 20% fine to coarse, subrounded to angular sand; about 10% fine to coarse, subrounded to angular gravel, fractured w/1 hammer blow; brown; firm; moist; strong reaction w/HCl; homogeneous; (Fill).																				Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.																			
SPT		2		3		4		3		7		0		577		576		575		574																																									
SPT		3		5		4		4		8		0.2		572		571		570		569																						Gravel blocked split-spoon for SPT-3.																			
SPT		4		2		3		3		6		0.3		570		569		568		567																						Gravel blocked split-spoon for SPT-4.																			
SPT		5		WOH		3		3		6		1.5		568		567		566		565		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; gray to brown; firm; moist; no reaction w/HCl; homogeneous; (Glacial Till).																																							

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-383S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5809.1'					GROUND ELEVATION (DATUM) E 3432.7'					TOTAL DEPTH 16.5 (feet)				
SURFACE CONDITIONS Grassy field										COORDINATE SYSTEM Plant					DATE START 05/16/07					DATE FINISHED 05/16/07				
SAMPLING										LOGGED BY Ohlmacher <i>GLO</i>					CHECKED BY Meyer <i>EM</i>					APPROVED BY Meyer <i>EM</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS		
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																		
TW	6						1.7	15		567		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded to angular sand; gray to brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).										PP=2.7 TSF TV=0.75 TSF		
								16		566												Bottom of boring @ 16.5'. Water level not recorded. Monitoring well installed on 05/16/07.		
								17		565														
								18		564														
								19		563														
								20		562														
								21		561														
								22		560														
								23		559														
								24		558														
								25		557														
								26		556														
								27		555														
								28		554														
								29		553														
								30																

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384D

SHEET 1 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5537.6' E 4402.8'										GROUND ELEVATION (DATUM) 581.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Grassy area behind berm from railroad tracks										COORDINATE SYSTEM Plant										DATE START 05/09/07										DATE FINISHED 05/17/07									
SAMPLING										LOGGED BY Grainger/Ohlmacher										CHECKED BY Dobbey/Ohlmacher										APPROVED BY Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																										
CORING																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
S	1					3.8		0		581		ORGANIC Soil (OL/OH) - About 90% fines; about 10% fine organics; very dark brown; (Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.																										
								1		580																													
								2		579		Poorly graded SAND with Silt (SP-SM) - About 90% fine sand; about 10% non-plastic, low toughness, no dilatancy, no dry strength fines; very dark brown; very soft; moist; strong reaction w/HCl; laminated; (Fill).																											
								3		578		Poorly graded GRAVEL with Sand (GP) - About 80% fine to coarse, angular, hard gravel; about 20% fine to coarse, angular, hard sand; light brownish gray; moist; strong reaction w/HCl; homogeneous; (Fill).																											
								4		577																													
								5		576																													
								6		575		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, subrounded sand; about 5% fine to coarse, rounded gravel; dark grayish brown; firm; moist; homogeneous; (Fill).																											
								7		574																													
								8		573																													
								9		572																													
								10		571																													
								11		570																													
								12		569																													
								13		568																													
								14		567																													
								15																															

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384D

SHEET 2 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5537.6' E 4402.8'										GROUND ELEVATION (DATUM) 581.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)													
SURFACE CONDITIONS Grassy area behind berm from railroad tracks										COORDINATE SYSTEM Plant										DATE START 05/09/07										DATE FINISHED 05/17/07													
SAMPLING										LOGGED BY Grainger/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
S		4				15.0						4.7		15		566						Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; very dark gray; very soft; moist; no reaction w/ HCl; homogeneous; (Lacustrine Deposit).																					
														16		565						Lean CLAY with Sand (CL) - About 80% medium plasticity, low toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 5% fine to coarse, rounded to subrounded, hard gravel; dark grayish brown & gray; mottled; hard; moist; laminated; (Glacial Till).																					
														17		564																											
														18		563																											
														19		562																											
														20		561																											
														21		560						Elastic SILT with Sand (MH) - About 75% medium plasticity, low toughness, no to slow dilatancy, medium dry strength fines; about 15% fine to coarse, angular, hard sand; about 10% fine to coarse, angular, hard gravel; dark gray ; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).																					
														22		559																											
														23		558																											
														24		557																											
														25		556																											
														26		555																											
														27		554						Elastic SILT with Gravel (MH) - About 75% medium plasticity, low toughness, no to slow dilatancy, medium dry strength fines; about 20% fine to coarse, angular, hard gravel; about 5% fine to coarse, angular, hard sand; w/cobbles; dark gray ; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till). 4" cobble @ 27.0'																					
														28		553																											
														29		552						DOLOMITE; gray; blocky; very fine grained; slightly weathered; very strong; hard; pitted; (Bass Islands Group).																					
														30																													

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384D

SHEET 3 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5537.6' E 4402.8'										GROUND ELEVATION (DATUM) 581.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)																															
SURFACE CONDITIONS Grassy area behind berm from railroad tracks										COORDINATE SYSTEM Plant										DATE START 05/09/07										DATE FINISHED 05/17/07																															
SAMPLING										LOGGED BY Grainger/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		ROD RECOVERY		PERCENT RECOVERY		ROD																																																	
S		7				30.0								30				551																																											
														31				550																																											
														32				549																																											
														33				548																																											
PQ		1		3.0		1.6		0.6		53		20		34				547																																											
														35				546																																											
														36				545																																											
														37				544																																											
PQ		2		5.0		4.6		2.6		92		52		38				543																																											
														39				542																																											
														40				541																																											
														41				540																																											
														42				539																																											
														43				538																																											
PQ		3		5.0		4.9		3.5		98		70		44				537																																											
														45																																															

6/17/2008 11:44 AM DTE-Fermi 3

DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; <5% vugs; (Bass Islands Group).  
highly fractured, very closely spaced joints @ 34.0-34.5'  
80°, J, T, No, No, PI, SR @ 34.5-34.8', 35.5-35.7'  
0°, J, VN, No, No, PI, SR @ 35.1', 35.3', 35.5'

80°, J, T, No, No, PI, SR @ 36.3-36.6'  
grades 40% vugs w/5% calcite fill @ 36.6'  
0°, J, VN, No, No, PI, SR @ 36.6'  
grades 10% vugs w/no fill @ 37.1'  
60°, J, VN, No, No, PI, SR @ 37.3-37.5'

25°, J, VN, No, No, WA, R @ 38.2'  
fractured, very closely spaced joints @ 38.6-38.7'  
85°, J, T, No, No, PI, SR @ 39.0-41.1'

grades dark gray, w/thin shale beds @ 40.1'

DOLOMITE; oolitic; brownish gray; very fine grained; slightly weathered; strong; moderately hard; banded; 20% vugs; (Bass Islands Group).  
0°, B, VN, No, No, PI, S @ 41.2'

25°, J, T, No, No, St, SR @ 43.0-43.2'

DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; (Bass Islands Group).  
fractured, very closely spaced joints @ 43.9-44.0'

Set nominal 6" temporary steel casing to 33.0'. Below 33.0' continued w/triple tube wire line core barrel using water as drilling fluid. Core box #1 starts @ 33.0'.



**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384D

SHEET 4 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 5537.6'		GROUND ELEVATION (DATUM) E 4402.8' 581.3 ft (NAVD 88)		TOTAL DEPTH 101.0 (feet)				
SURFACE CONDITIONS Grassy area behind berm from railroad tracks				COORDINATE SYSTEM Plant		DATE START 05/09/07		DATE FINISHED 05/17/07				
SAMPLING				LOGGED BY <i>GEO</i> Grainger/Ohlmacher		CHECKED BY <i>GEO</i> Dobbey/Ohlmacher		APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
CORING												
PQ	4	5.0	5.0	4.3	100	86	45		536		45° J,T,No,No,PI,SR @ 44.2-44.4' 0° B,VN,No,No,PI,S @ 44.6', 44.9', 45.3', 45.4', 45.7', 46.5' grades interbedded w/shale bands, about 0.2' spacing @ 44.7' 70° J,No,No,PI,SR @ 46.0-46.3'	Core box #2 starts @ 48.0'.
			46.0				46		535			
							47		534			
							48		533		0° B,VN,No,No,PI,S @ 47.8', 48.0' grades w/shale partings @ 48.2' 0° B,VN,No,No,PI,S @ 48.6', 48.9', 49.3'	
							49		532			
							50		531		highly fractured, very closely spaced, irregular joints @ 50.0-50.4' 20° J,VN,No,No,PI,SR @ 50.1' bedding dips 30° @ 50.3'	
			51.0				51		530		50° J,T,No,No,PI,SR @ 50.5-51.0' (3 parallel joints) grades 20% vugs @ 51.2' highly fractured, very closely spaced joints @ 51.2-51.5'	
							52		529		highly fractured, gravelly @ 52.1-52.3'	
							53		528		highly fractured, very closely spaced joints @ 52.9-53.1'	
PQ	5	5.0	5.0	4.1	100	82	54		527		75° J,VN,No,No,PI,SR @ 53.5-54.0' grades 10% vugs @ 54.0' 10° J,VN,PI,SR @ 54.0'	
							55		526		70° J,VN,No,No,PI,SR @ 55.0-55.3' 40° J,VN,No,No,PI,SR @ 55.2-55.4'	
			56.0				56		525		grades brecciated, indurated, w/stylolites @ 56.2'	
							57		524			
							58		523		70° J,VN,Ca,Pa,PI,SR @ 57.4-58.1' highly fractured, very closely spaced joints @ 57.6-58.1' grades w/no brecciation, bedding dips 0° @ 58.0'	Core box #3 starts @ 58.1'.
PQ	6	5.0	4.6	3.5	92	70	59		522		0° B,VN,No,No,PI,S @ 58.7', 59.8'	
							60				45° J,T,No,No,PI,SR @ 59.3-59.7' fractured, very closely spaced joints @ 59.4-59.7'	Drill stem dropped about 0.5' @ 59'.

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384D

SHEET 5 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																					
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5537.6'										GROUND ELEVATION (DATUM) E 4402.8' 581.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)											
SURFACE CONDITIONS Grassy area behind berm from railroad tracks										COORDINATE SYSTEM Plant										DATE START 05/09/07										DATE FINISHED 05/17/07											
SAMPLING										LOGGED BY <i>grainger</i> Grainger/Ohlmacher										CHECKED BY <i>dogbey</i> Dogbey/Ohlmacher										APPROVED BY <i>sm</i> Meyer											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT	RECOVERY	RQD																																	
PQ	7	5.0	5.0	3.4	100	68			60	521		highly fractured, very closely spaced joints to gravelly @ 60.3-61.0'										Core box #4 starts @ 62.7'.																			
			61.0						61	520		70°, J,T,No,No,PI,SR @ 62.1-63.1'																													
									62	519		fractured, very closely spaced joints @ 62.4-63.0'																													
									63	518		0°, J,VN,Ir,R @ 63.0'																													
									64	517		0°, B,VN,No,No,PI,S @ 63.7', 64.3', 64.7'																													
									65	516		90°, J,T,No,No,PI,SR @ 63.7-64.3'																													
									66	515		highly fractured @ 64.1-64.3', 67.8-68.1'																													
									67	514		50°, J,T,No,No,PI,SR @ 64.8-65.1'																													
									68	513		0°, B,VN,No,No,PI,S @ 65.4', 65.6'																													
									69	512		90°, J,T,No,No,PI,SR @ 66.0-66.9'																													
PQ	8	5.0	4.4	2.6	88	52			70	511		20°, J,VN,No,No,PI,SR @ 67.0', 67.4'																													
									71	510		SHALE; black; slightly weathered; weak; low hardness; (Bass Islands Group).																													
									72	509		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; 15% vugs; (Bass Islands Group).																													
									73	508		80°, J,VN,No,No,PI,R @ 67.5-68.2'																													
									74	507		highly fractured @ 67.8-68.1'																													
									75			highly fractured, very closely spaced joints @ 68.6-69.3'																													
												50°, V,N,Ca,Fi,Ir,R @ 69.6-69.9'																													
												0°, B,VN,No,No,PI,S @ 70.3'																													
												grades no vugs @ 71.0'																													
												0°, B,VN,No,No,PI,S @ 71.3', 72.1', 73.0'																													
												highly fractured, very closely spaced joints @ 72.1-73.0'																													
												90°, J,T,No,No,PI,SR @ 72.3-73.0', 74.8-75.9'																													
PQ	9	5.0	4.9	2.2	98	44						highly fractured @ 73.1-74.0'										Core box #5 starts @ 73.1'.																			
												zone w/20% vugs @ 73.7-74.1'																													
												25°, J,VN,Ca,Fi,PI,S @ 73.9'																													
												highly fractured, very closely spaced joints to gravelly @ 74.3-74.7'																													

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384D

SHEET 6 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5537.6'										GROUND ELEVATION (DATUM) E 4402.8' 581.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Grassy area behind berm from railroad tracks										COORDINATE SYSTEM Plant										DATE START 05/09/07										DATE FINISHED 05/17/07									
SAMPLING										LOGGED BY <i>GRO</i> Grainger/Ohlmacher										CHECKED BY <i>GRO</i> Dogbey/Ohlmacher										APPROVED BY <i>EM</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
							75		506		highly fractured, very closely spaced joints @ 75.4-75.7'																												
			76.0				76		505		15°, J, VN, No, No, PI, SR @ 76.4'																												
							77		504		0°, B, VN, No, No, PI, S @ 76.7', 76.9'																												
PQ	10	5.0	4.4	1.4	88	28	78		503		highly fractured, very closely spaced joints @ 77.5-77.9'																												
							79		502		90°, J, T, No, No, PI, SR @ 77.8-78.5'																												
							80		501		0°, B, VN, No, No, PI, S @ 78.6'(2 parallel joints), 78.9', 79.6'																												
							81		500		fractured, closely spaced joints @ 79.2-79.4'																												
			81.0				82		499		70°, J, T, No, No, PI, SR @ 79.9-80.6'																												
							83		498		0°, B, VN, No, No, PI, S @ 80.1'																												
PQ	11	5.0	4.4	1.0	88	20	84		497		highly fractured, very closely spaced joints @ 80.3-80.7'										Some core loss @ 81.2-82.2'																		
							85		496		highly fractured, very closely spaced joints, @ 81.2-82.2'																												
							86		495		highly fractured, very closely spaced joints @ 82.4-82.7'																												
							87		494		0°, B, VN, No, No, PI, S @ 82.9', 83.5'																												
							88		493		0°, B, VN, No, No, PI, S @ 84.0', 84.3'										Core box #6 starts @ 83.5'.																		
							89		492		highly fractured, very closely spaced joints @ 84.4-84.7'																												
							90				90°, J, T, No, No, PI, SR @ 84.7-85.6'																												
											highly fractured, closely spaced joints @ 85.0-85.4'																												
											fractures, very closely spaced joints @ 85.7-86.0'																												
											50°, J, T, No, No, PI, SR @ 85.7-86.6'																												
											highly fractured, very closely spaced joints, some clay fill @ 86.9-87.1'																												
											80°, J, T, No, No, PI, SR @ 87.2-87.6'																												
											highly fractured, very closely spaced joints @ 87.6-88.1'																												
PQ	12	5.0	4.2	0.7	84	14					50°, J, T, No, No, PI, SR @ 87.8-88.1'																												
											25°, J, T, No, No, PI, SR @ 88.2', 90.5'																												
											0°, B, T, No, No, PI, S @ 88.6'																												
											85°, J, T, No, No, WA, SR @ 88.6-89.7'																												
											highly fractured, very closely spaced joints @ 89.1-89.7'																												



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384D

SHEET 7 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																										
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5537.6' E 4402.8'										GROUND ELEVATION (DATUM) 581.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)																																																																
SURFACE CONDITIONS Grassy area behind berm from railroad tracks										COORDINATE SYSTEM Plant										DATE START 05/09/07										DATE FINISHED 05/17/07																																																																
SAMPLING										LOGGED BY <i>Geo. Grainger/Ohlmacher</i>										CHECKED BY <i>7.1.10 Dogbey/Ohlmacher</i>										APPROVED BY <i>fen Meyer</i>																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																								
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																							
																				90																														75°, J, T, No, No, PI, SR @ 89.7-90.4'										Core box #7 starts @ 94.2'.																																		
																				91																														90°, J, T, Ca, Sp, PI, SR @ 91.0-96.0'																																												
																				92																														grades slightly brownish gray @ 92.0'																																												
																				93																																																																										
PQ										13										5.0										5.0										4.6										100																				92																								
																				94																																																																										
																				95																																																																										
																				96																																																		gravel-size fragments @ 96.0-98.2'																								
																				97																																																																										
																				98																																																		90°, J, No, No, PI, SR @ 98.2-99.4'																								
																				99																																																																										
																				100																																								40°, J, T, No, No, PI, R @ 99.2-99.5'																																		
																				101																																								90°, J, T, No, No, PI, SR @ 99.5-99.9'																																		
																				102																																																																										
																				103																																																																										
																				104																																																																										
																				105																																																																										
																																																																						Bottom of boring @ 101.0'. Water level @ 15.8' @ completion of drilling. Monitoring well installed on 05/31/07.																								

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384S

SHEET 1 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5532.6' E 4403.9'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										TOTAL DEPTH 17.0 (feet)									
SURFACE CONDITIONS Grassy area behind berm from railroad track										COORDINATE SYSTEM Plant										DATE START 05/18/07										DATE FINISHED 05/18/07									
SAMPLING										LOGGED BY Ohlmacher <i>fed</i>										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
SPT	1	WOH	2	5	7	1.5	0		581		Fat CLAY with Sand (CH)-About 70% high plasticity, high toughness, slow dilatancy fines; about 20% fine sand; about 10% organics; very dark gray; soft; moist; strong reaction w/HCl; homogeneous; (Topsoil-Fill).										Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer. PP=0.75 TSF PP=3.0 TSF																		
							1		580		grades firm, less organics @ 2.5'																												
							2		579																														
							3		578																														
							4		577																														
							5		576		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, subrounded to angular sand; about 5% fine to coarse rounded gravel; dark yellowish brown; firm; moist; homogeneous; (Fill).																												
SPT	2	7	5	4	9	1.0	6		575																														
							7		574																														
							8		573																														
							9		572																														
							10		571																														
SPT	3	WOH	1	1	2	0.2	11		570																														
							12		569																														
							13		568																														
							14		567																														
							15																																

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5532.6' E 4403.9'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										TOTAL DEPTH 17.0 (feet)																															
SURFACE CONDITIONS Grassy area behind berm from railroad track										COORDINATE SYSTEM Plant										DATE START 05/18/07										DATE FINISHED 05/18/07																															
SAMPLING										LOGGED BY Ohlmacher <i>6-06</i>										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
TW		4										1.4		15		566		565		564		Lean CLAY (CH)-About 100% LL=43, PL=19, no dilatancy fines; brown to black; soft; moist; weak reaction w/HCl; lensed; (Peat & Lacustrine Deposit).																				PP=0.5 TSF TV=0.35 TSF																			
														16		563		562		561																																									
														17		560		559		558																																									
														18		557		556		555																																									
														19		554		553		552																																									
														20																																															
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CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, Michigan				N 6336.7'				E 5203.8'      582.3 ft (NAVD 88)				91.5 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Level, grassy						Plant				05/19/07		06/06/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Granger/Deeken				Dogbey/Meyer		Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
								0		582		TOPSOIL;	Boring advanced w/vacuum excavation.
								1		581		Silty GRAVEL with Sand (GM) - About 65% coarse, angular, hard gravel w/max. size 3"; about 20% fine to coarse, angular, hard sand; about 15% fines; yellowish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	
								2		580			
								3		579			
								4		578			
								5		577		Lean CLAY with Sand (CL)-About 85% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 15% coarse, subrounded to rounded, hard sand; trace gravel; yellowish brown & gray; (Fill).	Refusal to vacuum excavation @ 5.2'. Continued below 5.2' w/2 1/4" OD geoprobe continuous barrel sampler. Grab sample @ 7.0'.
								6		576			
								7	X	575			
								8		574			
								9		573			
								10		572			
								11		571			
								12		570			
								13	X	569			Grab sample @ 12.5'.
								14		568			
								15		567			



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-386D

SHEET 2 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 6336.7' E 5203.8'				GROUND ELEVATION (DATUM) 582.3 ft (NAVD 88)				
SURFACE CONDITIONS Level, grassy				COORDINATE SYSTEM Plant				DATE START 05/19/07				
								DATE FINISHED 06/06/07				
SAMPLING				LOGGED BY Grainger/Deeken				CHECKED BY Dogbey/Meyer				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
GP	3		15.0			5.0	15		567		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; dark gray; very soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
							16		566			
							17		565			
							18	X	564			Grab sample @ 18.0'.
							19		563			
							20		562		Lean CLAY with Sand (CL) - About 80% medium plasticity, low toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; trace gravel; dark gray; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till). 0.1' fine to coarse sand seam; wet @ 21.0'	Set 1" temporary PVC screen from 18 to 22' to collect water samples, then removed PVC casing.
							21		561			
							22	X	560			Grab sample @ 22.0'.
							23		559			
							24	X	558		Lean CLAY with Sand (CH) - About 75% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, angular to rounded, hard sand; about 10% fine to coarse angular to subrounded hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Refusal to geoprobe @ 25.0'. Below 25' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Grab sample @ 23.5'
							25		557			
							26		556		grades w/ gravel w/max. size 3" @ 26.5'	
							27		555		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; (Bass Islands Group). highly fractured @ 26.5-28.5'	
							28		554			
							29		553		0°, B, N, Cl, Pa, Pl, SR @ 29.8', 30.4', 31.5', 31.8', 31.9', 32.9',	Set nominal 6" temporary steel casing to 28.5'. Below 28.5' continued w/ triple tube wire line core barrel
							30					



**BLACK & VEATCH****BORING LOG**

BORING NO. MW-386D

SHEET 3 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6336.7' E 5203.8'										GROUND ELEVATION (DATUM) 582.3 ft (NAVD 88)										TOTAL DEPTH 91.5 (feet)									
SURFACE CONDITIONS Level, grassy										COORDINATE SYSTEM Plant										DATE START 05/19/07										DATE FINISHED 06/06/07									
SAMPLING										LOGGED BY <i>for</i> Grainger/Deeken										CHECKED BY <i>for</i> Dogbey/Meyer										APPROVED BY <i>for</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
PQ	1	5	5.0	2.1	100	42	30		552																														
							31		551		85°, J, N, Cl, Pa, Pl, SR @ 30.6-31.1', 31.4-32.0', 32.9-33.0'	w/diamond bit using water as drilling fluid. Core box #1 starts @ 28.5'. 70% drill water return. Drill chatter @ 31.0'.																											
							32		550																														
							33		549																														
			33.5				34		548		60°, J, N, Ca, Pa, Pl, SR @ 34.3', 34.8', 35.1', 35.6', 36.5', 37.0', 38.5'	Drill chatter throughout Run 2.																											
							35		547																														
PQ	2	5	5.0	0.4	100	8	36		546		5°, J, N, Cl, Pa, Pl, SR @ 35.5', 35.8', 36.1', 36.4', 36.9'																												
							37		545																														
							38		544		DOLOMITE; argillaceous; light gray; micritic; moderately weathered; strong; moderately hard; (Bass Islands Group).																												
			38.5				39		543		80°, J, N, Ca, Pa, Pl, SR @ 38.1-39.8'	Core box #2 starts @ 38.5'.																											
							40		542		2" black clay band @ 39.9'																												
PQ	3	5	5.0	2.8	100	56	41		541		DOLOMITE; light gray; very fine grained; slightly weathered; strong; hard; vugs to 1/2"; (Bass Islands Group).																												
							42		540		5°, B, N, Cl, Pa, Pl, SR @ 40.6', 40.9', 42.0', 42.4', 42.7'																												
							43		539		30°, J, N, Cl, Pa, Pl, SR @ 41.6', 42.2', 43.0'																												
							44		538		80°, J, N, Cl, Pa, Pl, SR @ 42.0-42.3'																												
			43.5				45		538																														

6/11/2008 9:18 AM DTE-Fermi 3

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-386D

SHEET 4 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6336.7' E 5203.8'										GROUND ELEVATION (DATUM) 582.3 ft (NAVD 88)										TOTAL DEPTH 91.5 (feet)																																																																																									
SURFACE CONDITIONS Level, grassy										COORDINATE SYSTEM Plant										DATE START 05/19/07										DATE FINISHED 06/06/07																																																																																									
SAMPLING										LOGGED BY Grainger/Decker										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																	
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																
PQ										4										5										5.0										3.3										100										66										45										537																				15°, J, MW, Cl, Sp, Pl, VR @ 45.2', 46.1'										Core box #3 starts @ 46.3'.									
PQ										5										4.9										1.2										98										24										46										536																																																	
PQ										5										5.0										2.9										100										58										47										535																																																	
PQ										5										5.0										2.9										100										59										523																																																											
PQ										5										5.0										2.9										100										60										524																																																											
PQ										5										5.0										2.9										100										61										525																																																											
PQ										5										5.0										2.9										100										62										526																																																											
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PQ										5										5.0										2.9										100										64										528																																																											
PQ										5										5.0										2.9										100										65										529																																																											
PQ										5										5.0										2.9										100										66										530										70°, J, MW, Cl, Sp, Pl, VR @ 48.3'										25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.																																							
PQ										5										5.0										2.9										100										67										531																																																											
PQ										5										5.0										2.9										100										68										532																																																											
PQ										5										5.0										2.9										100										69										533																																																											
PQ										5										5.0										2.9										100										70										534																																																											
PQ										5										5.0										2.9										100										71										535																																																											
PQ										5										5.0										2.9										100										72										536																																																											
PQ										5										5.0										2.9										100										73										537																																																											
PQ										5										5.0										2.9										100										74										538																																																											
PQ										5										5.0										2.9										100										75										539																																																											
PQ										5										5.0										2.9										100										76										540																																																											
PQ										5										5.0										2.9										100										77										541										60°, J, N, Cl, Pa, Pl, SR @ 54.3', 55.2', 55.3', 55.4', 56.4', 56.8', 57.2', 57.3', 57.4', 58.4'										25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.																																							
PQ										5										5.0										2.9										100										78										542																																																											
PQ										5										5.0										2.9										100										79										543																																																											
PQ										5										5.0										2.9										100										80										544																																																											
PQ										5										5.0										2.9										100										81										545																																																											
PQ										5										5.0										2.9										100										82										546																																																											
PQ										5										5.0										2.9										100										83										547																																																											
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PQ										5										5.0										2.9										100										87										551										70-80°, B @ 59.1-60.5' (intact bedding planes)										25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.																																							
PQ										5										5.0										2.9										100										88										552																																																											
PQ										5										5.0										2.9										100										89										553																																																											
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PQ										5										5.0										2.9										100										93										557																																																											
PQ										5										5.0										2.9										100										94										558																																																											
PQ										5										5.0										2.9										100										95										559																																																											
PQ										5										5.0										2.9										100										96										560																																																											
PQ										5										5.0										2.9										100										97										561										60°, J, N, No, No, Pl, S @ 58.8', 59.0', 60.3'										25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.																																							
PQ										5										5.0										2.9										100										98										562																																																											
PQ										5										5.0										2.9										100										99										563																																																											
PQ										5										5.0										2.9										100										100										564																																																											
PQ										5										5.0										2.9										100										101										565																																																											
PQ										5										5.0										2.9										100										102										566																																																											
PQ										5										5.0										2.9										100										103										567																																																											
PQ										5										5.0										2.9										100										104										568																																																											
PQ										5										5.0										2.9										100										105										569																																																											
PQ										5										5.0										2.9										100										106										570																																																											
PQ										5										5.0										2.9										100										107										571										70-80°, B @ 59.1-60.5' (intact bedding planes)										25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.																																							
PQ										5										5.0										2.9										100										108										572																																																											
PQ										5										5.0										2.9										100										109										573																																																											
PQ										5										5.0										2.9										100										110										574																																																											
PQ										5										5.0										2.9										100										111										575																																																											
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PQ										5										5.0										2.9										100										113										577																																																											
PQ										5										5.0										2.9										100										114										578																																																											
PQ										5										5.0										2.9										100										115										579																																																											
PQ										5										5.0										2.9										100										116										580																																																											
PQ										5										5.0										2.9										100										117										581										60°, J, N, No, No, Pl, S @ 58.8', 59.0', 60.3'										25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.																																							
PQ										5										5.0										2.9										100										118										582																																																											
PQ										5										5.0										2.9										100										119										583																																																											
PQ										5										5.0										2.9										100										120										584																																																											
PQ										5										5.0										2.9										100										121										585																																																											
PQ										5										5.0										2.9										100										122										586																																																											
PQ										5										5.0										2.9										100										123										587																																																											
PQ										5										5.0										2.9										100										124										588																																																											
PQ										5										5.0										2.9										100										125										589																																																											
PQ										5										5.0										2.9										100										126										590																																																											
PQ										5										5.0										2.9										100										127										591										70-80°, B @ 59.1-60.5' (intact bedding planes)										25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.																																							
PQ										5										5.0										2.9										100										128										592																																																											
PQ										5										5.0										2.9										100										129										593																																																											
PQ										5										5.0										2.9										100										130										594																																																											
PQ										5										5.0										2.9										100										131										595																																																											
PQ										5										5.0										2.9										100										132										596																																																											
PQ										5										5.0										2.9										100										133										597																																																											
PQ										5										5.0										2.9										100										134										598																																																											
PQ										5										5.0										2.9										100										135										599																																																											
PQ										5										5.0										2.9										100										136										600																																																											

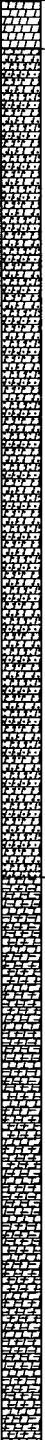


## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-386D

SHEET 5 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6336.7'										GROUND ELEVATION (DATUM) E 5203.8' 582.3 ft (NAVD 88)										TOTAL DEPTH 91.5 (feet)																																																																																									
SURFACE CONDITIONS Level, grassy										COORDINATE SYSTEM Plant										DATE START 05/19/07										DATE FINISHED 06/06/07																																																																																									
SAMPLING										LOGGED BY <i>for J.W.</i> Grainger/Deeken										CHECKED BY <i>for J.W.</i> Dogbey/Meyer										APPROVED BY <i>for J.W.</i> Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																	
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																
PQ										7										5										5.0										1.6										100										32										60										522																				<p>DOLOMITE; oolitic; brown; fine grained; slightly weathered; strong; hard; brecciated; healed; occasional vugs to 1/8"; weak reaction w/HCl; (Bass Islands Group). 60°, J, N, No, No, PI, S @ 60.6', 61.5', 62.2', 62.9', 63.4' 80°, J, N, CI, Sp, PI, SR @ 62.5', 63.3'</p> <p>brecciation grades out @ 63.0'</p> <p>brecciated @ 64.0-65.7' w/calcite inclusions</p> <p>60°, J, N, CI, Sp, PI, SR @ 63.6', 64.1', 65.1', 65.7', 65.9', 66.3', 68.3' 1/4" thick black shale parting @ 66.0' grades w/ occasional white bands</p>										<p>Core box #5 starts @ 63.5'.</p>									
PQ										8										5										5.0										2.5										100										50										61										521																																							
PQ										9										5										5.0										3.8										100										76										62										520																																							
PQ										10										5										5.0										4.0										100										77										519																																																	
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PQ										14										5										5.0										4.0										100										81										515																																																	
PQ										15										5										5.0										4.0										100										82										514																																																	
PQ										16										5										5.0										4.0										100										83										513																																																	
PQ										17										5										5.0										4.0										100										84										512										<p>DOLOMITE; argillaceous; brown; micritic; slightly weathered; strong; hard; brecciated; healed; (Bass Islands Group).</p> <p>5°, B, N, CI, Pa, PI, SR @ 69.1', 69.4', 71.1', 71.5', 71.6', 72.0', 72.8', 73.3'</p>										<p>Core box #6 starts @ 73.2'.</p>																													
PQ										18										5										5.0										4.0										100										85										511																																																	
PQ										19										5										5.0										4.0										100										86										510																																																	
PQ										20										5										5.0										4.0										100										87										509																																																	
PQ										21										5										5.0										4.0										100										88										508																																																	
PQ										22										5										5.0										4.0										100										89										507																																																	
PQ										23										5										5.0										4.0										100										90										506																																																	
PQ										24										5										5.0										4.0										100										91										505																																																	
PQ										25										5										5.0										4.0										100										92										504																																																	
PQ										26										5										5.0										4.0										100										93										503																																																	

6/11/2008 9:18 AM DTE-Fermi 3

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-386D

SHEET 6 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																				
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6336.7' E 5203.8'										GROUND ELEVATION (DATUM) 582.3 ft (NAVD 88)										TOTAL DEPTH 91.5 (feet)																										
SURFACE CONDITIONS Level, grassy										COORDINATE SYSTEM Plant										DATE START 05/19/07										DATE FINISHED 06/06/07																										
SAMPLING										LOGGED BY Grainger/Deeken										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer																										
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS														
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																				
PQ	10	5	5.0	5.0	100	100							75				507					<p>DOLOMITE; gray; very fine grained; slightly weathered; strong; hard; brecciated; healed; (Bass Islands Group).</p> <p>occasional vugs to 1/4" @ 79.0'</p> <p>35°, J,N,CI,Pa,PI,SR @ 77.8'</p> <p>0°, B,MW,CI,Pa,PI,VR @ 79.7'</p> <p>60°, J,N,CI,Sp,PI,R @ 80.0'</p> <p>60°, J,N,CI,Sp,PI,R @ 80.7'</p> <p>85°, J,N,CI,Sp,R @ 81.0-81.7'</p> <p>60°, J,N,CI,Sp,PI,R @ 82.6'</p> <p>60°, J,N,CI,Sp,PI,R @ 84.0'</p> <p>0°, B,MW,CI,Pa,PI,VR @ 86.4'</p> <p>85°, J,N,H,Sp,R @ 86.5-88.0'</p> <p>1/8" black shale parting @ 86.5'</p> <p>grades argillaceous @ 87'</p> <p>brecciation grades out @ 88.0'</p> <p>0°, B,MW,CI,Pa,PI,VR @ 88.0'</p> <p>2" black shale band @ 89.0'</p> <p>30°, J,N,CI,Pa,SR @ 88.6', 89.7'</p>																				Core box #7 starts @ 82.5'.														
													76				506																																							
													77				505																																							
													78				504																																							
													79				503																																							
													80				502																																							
PQ	11	5	5.0	3.2	100	64							81				501																																							
													82				500																																							
													83				499																																							
													84				498																																							
													85				497																																							
PQ	12	5	5.0	4.5	100	90							86				496																																							
													87				495																																							
													88				494																																							
													89				493																																							
													90																																											

6/11/2008 9:18 AM DTE-Fermi 3



# BORING LOG

BORING NO. MW-386D

SHEET 7 OF 7

6/11/2008 9:18 AM DTE-Fermi3

CLIENT										PROJECT										PROJECT NO.														
Detroit Edison										Fermi 3 COL Application										147483														
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																			
Monroe, Michigan					N 6343.9'					E 5203.6'					582.4 ft (NAVD 88)		22.0 (feet)																	
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																	
Grassy area next to parking lot										Plant					05/19/07		05/23/07																	
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY														
										Grainger/Deeken					Logbey/Meyer					Meyer														
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)														
										CORE SIZE					RUN NUMBER					RUN LENGTH														
										RUN RECOVERY					RQD					PERCENT RECOVERY														
										RQD					RQD					RQD														
										GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS														
										0					582					Silty GRAVEL with Sand (GM) - About 65% coarse, angular, hard gravel, w/max size 3"; about 20% fine to coarse, angular, hard sand; about 15% fines; yellowish brown; moist; strong reaction w/HCl; homogeneous; (Fill).					Boring advanced w/vacuum excavation.									
										1					581																			
										2					580																			
										3					579																			
										4					578																			
										5					577					5.3					Refusal to vacuum excavation @ 5.0'. Below 5.0', continued w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.									
SPT										1					1					3					4					0.2				
										6					576																			
										7					575																			
										8					574																			
										9					573																			
										10					572																			
TW										2					-					-					-					2.0				
										11					571																			
										12					570																			
										13					569																			
										14					568					14.3					Fat CLAY (CH) - About 95% high plasticity, medium toughness, no dilatancy, high dry strength fines;									
										15					568																			

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-386S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																															
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6343.9'										GROUND ELEVATION (DATUM) E 5203.6' 582.4 ft (NAVD 88)										TOTAL DEPTH 22.0 (feet)																																																																																																																																																					
SURFACE CONDITIONS Grassy area next to parking lot										COORDINATE SYSTEM Plant										DATE START 05/19/07										DATE FINISHED 05/23/07																																																																																																																																																					
SAMPLING										LOGGED BY <i>Graininger/Deeken</i>										CHECKED BY <i>Dogbey/Meyer</i>										APPROVED BY <i>Meyer</i>																																																																																																																																																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> <th></th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	CORING								CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																																																																															
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																																																																												
CORING																																																																																																																																																																																			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																																																																													
SPT										3										WOH										2										2										4										1.5										15										567										<p>about 5% fine to coarse, subangular sand; gray; moist; weak reaction w/HCl.</p>										PP = 2.0 TSF																																																																															
																																																												16										566																																																																																																													
																																																																						17										565																																																																																																			
																																																																						18										564																																																																																																			
																																																																																																																								19										563										<p>Lean CLAY (CL) - About 85% low plasticity, high toughness, no dilatancy fines; about 15% fine to coarse, subangular sand; dark yellowish brown; hard; moist; strong reaction w/HCl.</p>																																							
SPT										4										3										8										9										17										1.5										20										562																																																																																																			
																																																																																										21										561																																																																															
																																																																																																				22										560																																																																					
																																																																																																																																																						23										559										<p>Bottom of boring @ 22.0'. Water level @ 15.2' @ completion of drilling. Monitoring well installed on 05/23/07.</p>									
																																																																																																																								24										558																																																	
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																																																																																																																																																																30																			

**BLACK & VEATCH**

# BORING LOG

**BORING NO. MW-387D**

SHEET 1 OF 7

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, Michigan				N 6660.2'				E 4150.1' 579.7 ft (NAVD 88)				103.5 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Graveled area						Plant				05/17/07		05/20/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Grainger/Deeken				Meyer		Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0				<u>BOULDERS</u> - About 50% angular, elongated, very hard boulders; about 25% angular, elongated, very hard cobbles; about 20% fine to coarse subrounded, elongated, hard sand; about 5% fines; pinkish gray; loose; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
							1						
							2						
							3						
							4						
							5						
S	1		5.0			3.8	6						
							7						
							8						
							9						
							10						
			10.0				11						
							12						
S	2					4.6	13				<u>ORGANIC Soil (OL) s</u> - About 100% low plasticity, low toughness, slow dilatancy, low dry strength fines; dark gray; soft; wet; no reaction w/HCl; w/ peat	Refusal to vacuum excavation @ 5.0'. Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	
							14				<u>Lean CLAY (CL)</u> - About 95% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 5% fine rounded sand; medium dark gray; soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).		
							15						

PP = 0.75 TSF @ 14.5'



**BLACK & VEATCH****BORING LOG**

BORING NO. MW-387D

SHEET 2 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6660.2'										GROUND ELEVATION (DATUM) E 4150.1' 579.7 ft (NAVD 88)										TOTAL DEPTH 103.5 (feet)																															
SURFACE CONDITIONS Graveled area										COORDINATE SYSTEM Plant										DATE START 05/17/07										DATE FINISHED 05/20/07																															
SAMPLING										LOGGED BY Grainger/Deeken <i>gd</i>										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
S		3				15.0						5.0		15				564		[Hatched Pattern]		grades very soft @ 16.0'																																							
S		4				20.0						5		16				563		[Hatched Pattern]		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 5% fine; rounded; hard sand; light olive gray & dark yellowish brown; firm; moist; strong reaction w/HCl; laminated; (Glacial Till).  fine sand layer 18.0' - 18.2' grades dark yellowish brown @ 18.2'																				16.6																			
S		5				25.0						5		17				562		[Hatched Pattern]		Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, slow dilatancy, very high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 10% fine to coarse, rounded to angular hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).  dark gray & dark yellowish brown, laminated @ 22.0-23.0'																				20.0																			
S		5				25.0						5		18				561		[Hatched Pattern]		grades w/ gravel lenses & cobbles; angular																				Below 26' to 30.7' description based on photo review																			
S		5				25.0						5		19				560		[Hatched Pattern]																																									
S		5				25.0						5		20				559		[Hatched Pattern]																																									
S		5				25.0						5		21				558		[Hatched Pattern]																																									
S		5				25.0						5		22				557		[Hatched Pattern]																																									
S		5				25.0						5		23				556		[Hatched Pattern]																																									
S		5				25.0						5		24				555		[Hatched Pattern]																																									
S		5				25.0						5		25				554		[Hatched Pattern]																																									
S		5				25.0						5		26				553		[Hatched Pattern]																																									
S		5				25.0						5		27				552		[Hatched Pattern]																																									
S		5				25.0						5		28				551		[Hatched Pattern]																																									
S		5				25.0						5		29				550		[Hatched Pattern]																																									
S		5				25.0						5		30				549		[Hatched Pattern]																																									

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-387D

SHEET 3 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 6660.2'		GROUND ELEVATION (DATUM) E 4150.1'		579.7 ft (NAVD 88)		TOTAL DEPTH 103.5 (feet)		
SURFACE CONDITIONS Graveled area				COORDINATE SYSTEM Plant		DATE START 05/17/07		DATE FINISHED 05/20/07				
SAMPLING				LOGGED BY Grainger/Deeken				CHECKED BY Meyer		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							30					
PQ	1	2.3	2.3	0.0	100	0	31		549		DOLOMITE; medium light gray; blocky; very fine grained; slightly weathered; strong; moderately hard; thin bedded; slightly pitted; (Bass Islands Group). 90°, J, N, No, No, PI, SR @ 30.2'-33.8' 60°, J, MW, No, No, PI, R @ 31.0'	Set nominal 6" temporary steel casing to 30.0'. Below 30.7' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.7'. About 10% drill water return @ 33'. About 90% return thereafter.
							32		548			
							33		547			
PQ	2	5.0	5.0	2.0	100	40	34		546		5°, J, N, CI, Sp, PI, SR @ 33.2', 33.8'	
							35		545			
							36		544		90°, J, N, No, No, PI, SR @ 35.3-36.0' 5°, J, N, CI, Sp, PI, SR @ 35.4', 36.1'	
							37		543			
							38		542		5°, J, N, CI, Sp, PI, SR @ 37.2' grades thick bedded @ 37.5'	
							39		541		90°, J, N, No, No, PI, SR @ 39.4-40.0', 40.2-42.5' 5°, J, N, CI, Sp, PI, SR @ 38.5' grades light brown @ 38.5' 5°, J, N, CI, Sp, PI, SR @ 38.9'	
							40		540		90°, J, N, No, No, PI, SR @ 39.4-40.0'	
PQ	3	5.5	5.2	1.4	95	25	41		539		1" black shale band @ 40.0' 5°, J, N, CI, Sp, PI, SR @ 40.0' 90°, J, N, No, No, PI, SR @ 40.2-42.5'	Core box #2 starts @ 40.7'.
							42		538		5°, J, N, CI, Sp, PI, SR @ 41.0' 0°, B, N, CI, Pa, PI, SR @ 40.0', 41.0'	
							43		537			
							44		536		90°, J, N, No, No, PI, SR @ 43.0-44.1' 0°, B, N, CI, Pa, PI, SR @ 43.1', 43.3', 43.6', 43.9', 44.1', 44.3', 44.5'	
							45		535			

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-387D

SHEET 4 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 6660.2' E 4150.1'				GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)				
SURFACE CONDITIONS Graveled area				COORDINATE SYSTEM Plant				DATE START 05/17/07				
								DATE FINISHED 05/20/07				
SAMPLING				LOGGED BY Grainger/Deeken				CHECKED BY Meyer				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	4	5.0	5.0	3.1	100	62	45		534		35°, J, VN, No, No, St, R @ 45.4'	
							46		533		0°, B, N, Cl, Pa, Pl, SR @ 45.7', 45.9'	
							47		532		90°, J, N, No, No, Pl, SR @ 45.7-45.9'	
							48				0°, B, N, Cl, Pa, Pl, SR @ 47.4', 47.6'	
			48.5				49		531		0°, B, N, Cl, Pa, Pl, SR @ 48.7', 49.2'	
							50		530		35°, J, VN, No, No, St, R @ 50.0'	Core box #3 starts @ 50.0'
PQ	5	5.0	5.0	2.8	100	56	51		529		0°, B, N, Cl, Pa, Pl, SR @ 51.0', 51.2', 51.3'	
							52		528		35°, J, VN, No, No, St, R @ 51.4', 51.9'	
							53		527		DOLOMITE; dark gray/brown; vuggy; very fine grained; moderately weathered; moderately hard; medium bedded; w/ calcite inclusions at 53.4'; (Bass Islands Group).	
							54		526		35°, J, VN, No, No, St, R @ 52.1', 52.5'	
			53.5				55		525		0°, B, N, Cl, Pa, Pl, SR @ 53.0'	
							56		524		2" black shale band @ 53.9'	
PQ	6	5.0	5.0	2.5	100	50	57		523		DOLOMITE; medium light gray; vuggy; very fine grained; slightly weathered; strong; moderately hard; (Bass Islands Group).	
							58		522		0°, B, MW, Cl, Pa, Pl, R @ 55.9', 56.1', 56.4', 56.6', 56.8', 56.9'	
							59		521		highly fractured @ 56.6-57.0'	
			58.5				60				0°, B, MW, Cl, Pa, Pl, R @ 57.1'	
											0°, B, MW, Cl, Pa, Pl, R @ 58.0'	
											highly fractured w/ black shale & calcite fragments @ 58.7-60.0'	

5/20/2008 1:34 PM DTE-Fermi 3

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, Michigan				N 6660.2'				E 4150.1'				579.7 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Graveled area						Plant				05/17/07		05/20/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Grainger/Deeken JD				Meyer EM		Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	10	5.0	4.8	0.9	96	18	75		504		0°,B,N,Cl,Pa,Pl,SR @ 75.1' highly fractured @ 75.3-76.0'	Core box #6 starts @ 78.5'.	
							76		503		30°,J,N,Cl,Pa,Pl,R @ 76.4' 90°,J,N,Cl,Pa,Pl,R @ 75.1-75.3', 76.0-79.8'		
							77		502		30°,J,N,Cl,Pa,Pl,R @ 77.5', 77.9' 0°,B,N,Cl,Pa,Pl,SR @ 77.6'		
			78.5				78						
							79		501		0°,B,N,Cl,Pa,Pl,SR @ 78.8'		
							80		500		0°,B,N,Cl,Pa,Pl,SR @ 79.3'		
PQ	11	5.0	5.0	3.7	100	74	81		499		60°,J,N,No,No,Pl,R @ 79.8', 79.9', 80.1'		
							82		498		vuggy @ 81.0-83.5' 30°,J,N,Cl,Pa,Pl,R @ 80.9'		
							83		497		30°,J,N,Cl,Pa,Pl,R @ 81.9'		
							84		496		30°,J,N,Cl,Pa,Pl,R @ 82.7'		
			83.5				85		495		grades thick bedded @ 83.5'		
PQ	12	5.0	5.0	4.8	100	96	86		494		30°,J,N,Cl,Pa,Pl,R @ 86.3'	Core box #7 starts @ 88'.	
							87		493				
							88		492				
			88.5				89		491		0°,B,N,Cl,Pa,Pl,SR @ 88.4'		
							90		490				



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-387D

SHEET 7 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, Michigan				COORDINATES N 6660.2' E 4150.1'				GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)			
SURFACE CONDITIONS Graveled area				COORDINATE SYSTEM Plant				DATE START 05/17/07			
DATE FINISHED 05/20/07				LOGGED BY Grainger/Deeken <i>JD</i>				CHECKED BY Meyer <i>EM</i>			
APPROVED BY Meyer <i>EM</i>											

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
PQ	13	5.0	5.0	1.5	100	30	90				0°,B,N,Cl,Pa,PI,SR @ 90.2' 90°,J,N,Cl,Pa,PI,R @ 90.6-92.3'		
							91				3" thick clay band @ 91.2'		
							92						
							93				0°,B,N,Cl,Pa,PI,SR @ 92.3', 92.8', 93.1' 90°,J,N,Cl,Pa,PI,R @ 92.6-93.5' highly fractured @ 92.9-93.3' 2" shale band @ 92.9'		
							94				0°,B,N,Cl,Pa,PI,SR @ 93.4'		
PQ	14	3.5	3.3	1.0	94	29	95				60°,J,N,Cl,Pa,PI,R @ 94.5'		
							96						
							97						
PQ	15	1.5	1.5	0.8	100	53	98				0°,B,N,Cl,Pa,PI,SR @ 97.4', 97.8' 1" thick clay band @ 97.4'		
							99				0°,B,N,Cl,Pa,PI,SR @ 98.4' 60°,J,N,Cl,Pa,PI,R @ 98.5' 1" thick clay band @ 98.5'	Core box #8 starts @ 98.5'.	
							100				0°,B,N,Cl,Pa,PI,SR @ 98.7', 99.0'		
PQ	16	5.0	5.0	3.2	100	64	101				argillaceous @ 101.0-102.1' 0°,B,N,Cl,Pa,PI,SR @ 101.0', 101.2', 101.3'		
							102						
							103				60°,J,N,Cl,Pa,PI,R @ 103.0'		
							104						
							105						

5/20/2008 1:34 PM DTE-Fermi 3

Bottom of boring @ 103.5'. Water level not recorded. Monitoring well installed on 06/01/07.

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-387S

SHEET 1 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6665.8' E 4148.2'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 16.2 (feet)																															
SURFACE CONDITIONS Mild slope, gravel surface, N 6.0' of MW-387D										COORDINATE SYSTEM Plant										DATE START 05/31/07										DATE FINISHED 05/31/07																															
SAMPLING										LOGGED BY Duncan										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
														0								Undifferentiated Overburden See log for MW-387D																				Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.  Water encountered @ 6.5'																			
														1																																															
														2																																															
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														13																																															
														14																																															
														15								Lean CLAY (CL) - About 89% LL=38, PL=14, no dilatancy, high dry strength fines; about 11% sand; dark greenish gray; soft; moist; no reaction w/HCl;																																							

**BLACK & VEATCH**

## BORING LOG

**BORING NO. MW-387S**

SHEET 2 OF 2

CLIENT Detroit Edison						PROJECT Fermi 3 COL Application						PROJECT NO. 147483		
PROJECT LOCATION Monroe, Michigan						COORDINATES N 6665.8' E 4148.2'						GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)		TOTAL DEPTH 16.2 (feet)
SURFACE CONDITIONS Mild slope, gravel surface, N 6.0' of MW-387D						COORDINATE SYSTEM Plant						DATE START 05/31/07		DATE FINISHED 05/31/07
SAMPLING						LOGGED BY <i>[Signature]</i> Duncan						CHECKED BY <i>[Signature]</i> Dogbey/Meyer		APPROVED BY <i>[Signature]</i> Meyer
SAMPLE TYPE	SAMPLE NUMBER	SET	6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
TW	1					1.2		15		564		homogeneous.	TV = 0.85 TSF	
								16		563			Bottom of boring @ 16.2'. Water level @ 7.4' on 06/01/07. Monitoring well installed on 06/01/07.	
								17		562				
								18		561				
								19		560				
								20		559				
								21		558				
								22		557				
								23		556				
								24		555				
								25		554				
								26		553				
								27		552				
								28		551				
								29		550				
								30						



**BLACK & VEATCH**

## BORING LOG

**BORING NO. MW-388S**

SHEET 1 OF 1

CLIENT										PROJECT										PROJECT NO.																																																	
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																							
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																																							
LOGGED BY										CHECKED BY										APPROVED BY																																																	
SAMPLING										CORING										CLASSIFICATION OF MATERIALS										REMARKS																																							
SAMPLE TYPE										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG																													
CORE SIZE										RUN NUMBER										RUN LENGTH										RUN RECOVERY										RQD																													
SAMPLE NUMBER										SET 6 INCHES										2ND 6 INCHES										3RD 6 INCHES										N VALUE																													
SAMPLE RECOVERY										RQD										PERCENT RECOVERY										RQD																																							
Grassy, level ground surface along fence										Plant										05/30/07										05/30/07																																							
Oehlacher										Dogbey/Oehlacher										Meyer																																																	
SPT										1										2										3										6										0.8																			
SPT										2										1										2										3										5										0.8									
SPT										3										1										2										3/4										5										1.3									
Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; strong brown & gray; firm; moist; no reaction w/HCl; homogeneous; (Lacustine Deposit)										grades laminated @ 3.5'																				Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.																																							
Bottom of boring @ 6.5'. Water not encountered. Monitoring well installed on 05/30/07.																																																																					

5/23/2008 9:46 AM DTE-Fermi 3

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-390S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																							
PROJECT LOCATION Monroe, Michigan										COORDINATES N 7960.1' E 4245.7'										GROUND ELEVATION (DATUM) 578.9 ft (NAVD 88)										TOTAL DEPTH 16.5 (feet)																																																																																																													
SURFACE CONDITIONS Graveled area										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 06/01/07																																																																																																													
SAMPLING										LOGGED BY <i>Granger/Duncan</i>										CHECKED BY <i>Dogbey/Meyer</i>										APPROVED BY <i>Meyer</i>																																																																																																													
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> <th></th> </tr> <tr> <td>TW</td> <td>4</td> <td></td> <td>15.7</td> <td></td> <td></td> <td>0.8</td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	CORING								CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		TW	4		15.7			0.8		<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> </tr> <tr> <td>15</td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td>563</td> <td></td> </tr> <tr> <td>17</td> <td></td> <td>562</td> <td></td> </tr> <tr> <td>18</td> <td></td> <td>561</td> <td></td> </tr> <tr> <td>19</td> <td></td> <td>560</td> <td></td> </tr> <tr> <td>20</td> <td></td> <td>559</td> <td></td> </tr> <tr> <td>21</td> <td></td> <td>558</td> <td></td> </tr> <tr> <td>22</td> <td></td> <td>557</td> <td></td> </tr> <tr> <td>23</td> <td></td> <td>556</td> <td></td> </tr> <tr> <td>24</td> <td></td> <td>555</td> <td></td> </tr> <tr> <td>25</td> <td></td> <td>554</td> <td></td> </tr> <tr> <td>26</td> <td></td> <td>553</td> <td></td> </tr> <tr> <td>27</td> <td></td> <td>552</td> <td></td> </tr> <tr> <td>28</td> <td></td> <td>551</td> <td></td> </tr> <tr> <td>29</td> <td></td> <td>550</td> <td></td> </tr> <tr> <td>30</td> <td></td> <td>549</td> <td></td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	15				16		563		17		562		18		561		19		560		20		559		21		558		22		557		23		556		24		555		25		554		26		553		27		552		28		551		29		550		30		549		CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																																				
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TW	4		15.7			0.8																																																																																																																																					
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30		549																																																																																																																																									
																				TV = 1.6 TSF TW refusal @ 16.5'. Bottom of boring @ 16.5'. Monitoring well installed on 06/01/07. Water level @ 6.2' after completion of monitoring well.																																																																																																																							



BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-391D

SHEET 1 OF 7

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483																															
PROJECT LOCATION Monroe, Michigan					COORDINATES N 8240.3' E 5237.2'					GROUND ELEVATION (DATUM) 578.7 ft (NAVD 88)					TOTAL DEPTH 101.0 (feet)																										
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower										COORDINATE SYSTEM Plant					DATE START 05/16/07					DATE FINISHED 05/22/07																					
SAMPLING										LOGGED BY <i>EM</i> Grainger/Duncan					CHECKED BY <i>EM</i> Meyer					APPROVED BY <i>EM</i> Meyer																					
SAMPLE TYPE		SAMPLE NUMBER		SET		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																													
S		1				3.0						0.0										BOULDERS - About 50% angular, elongated, very hard boulders; about 20% angular, rounded to elongated, very hard cobbles; about 20% angular, rounded to elongated, hard gravel; about 10% fine to coarse, angular, hard sand; pinkish gray; strong reaction w/HCl; homogeneous; (Fill).										Boring advanced w/vacuum excavation									
S		2				5.0						3.0																				Refusal to vacuum excavation @ 3.0'. Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.									
S		3				10.0						3.5																													



**BLACK & VEATCH**

# **BORING LOG**

**BORING NO. MW-391D**

**SHEET 2 OF 7**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																											
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8240.3' E 5237.2'										GROUND ELEVATION (DATUM) 578.7 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)																																																																	
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 05/22/07																																																																	
SAMPLING										LOGGED BY <i>GA</i> Grainger/Duncan										CHECKED BY <i>EM</i> Meyer										APPROVED BY <i>EM</i> Meyer																																																																	
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																								
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																								
S										4										15.0										5.0										15										563																				grades boulders & glacial till mixture @ 15.0'										PP > 4.5 TSF @ 17.0-17.5'															
S										5										20.0										5.0										16										562																				Sandy Lean CLAY (CL) - About 70% fines; about 20% fine to coarse, rounded, hard sand; about 10% fine, rounded, hard gravel; yellowish brown; hard to very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).																									
S										6										25.0										4.7										17										561																				DOLOMITE; gray; blocky; very fine grained; slightly weathered; very strong; hard; pitted; (Bass Islands Group).																									

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-391D

SHEET 3 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8240.3' E 5237.2'										GROUND ELEVATION (DATUM) 578.7 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 05/22/07									
SAMPLING										LOGGED BY Grainger/Duncan										CHECKED BY Meyer										APPROVED BY Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																
CORING																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
PQ	1	0.9	30.1	0.9	0.5	100	56	30		548		DOLOMITE; gray; blocky; micritic; fresh; extremely strong; hard; w/shale, shale veins & partings; tight & irregular joints; (Bass Islands Group).										Set nominal 6" temporary steel casing to 30.0'. Below 30.1' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Core box #1 starts @ 30.1'. Water level @ 5.4' @ start of drilling on 05/21/07.																	
			31.0					31		547		grades w/o shale veins; horizontal shale striations @ 31.9'																											
PQ	2	5.0	4.7	4.2	94	84		32		546		shale parting; weathered - 0-10°, B,MW,Fi,PI,SR @ 31.6'																											
								33		545		shale parting - 0°, B,MW,Fi,PI,SR @ 33.5'																											
								34		544		0°, J,MW,CI,Fi,PI,SR @ 33.9'																											
								35		543		shale parting - 10° B,MW,Fi,PI,SR @ 34.5'																											
								36		542		15°, J,MW,CI,Pa,Ir,R @ 35.4'																											
								37		541		grades very strong; very hard; massive; w/trace pits @ 35.4'																											
PQ	3	5.0	5.0	5.0	100	100		38		540		shale parting - B,MW,Fi,PI,R @ 36.8', 37.4'																											
								39		539																													
								40		538																													
								41		537		grades extremely strong; w/trace pits & vugs partially filled w/calcite @ 41.4'																											
								42		536		15°, J,T,No,No,Ir,R @ 41.9'																											
								43		535																													
PQ	4	5.0	5.0	5.0	100	100		44		534																													
								45		534		0°, J,T,No,No,Ir,R @ 44.9'																											

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-391D

SHEET 4 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8240.3'										GROUND ELEVATION (DATUM) E 5237.2'										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 05/22/07									
SAMPLING										LOGGED BY <i>Granger/Duncan</i>										CHECKED BY <i>EM Meyer</i>										APPROVED BY <i>EM Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																
CORING																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
								45																															
								46																															
								47																															
								48																															
PQ	5	5.0	5.0	4.6	100	92		49																															
								50																															
								51																															
								52																															
								53																															
PQ	6	5.0	5.0	2.6	100	52		54																															
								55																															
								56																															
								57																															
								58																															
PQ	7	5.0	5.0	4.5	100	90		59																															
								60																															

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clay mixed w/rock fragments (highly weathered) @ 47.2-47.5'

shale band; moderately weathered; partially cemented w/calcite @ 48.1-48.2'

0-60°, numerous, J, VN - MW, UK, Ir, R @ 49.0'

0°, B, MW - W, Cl & shale infill, Su, Pa, SR @ 49.6' (completely weathered)

0°, J, N - MW, quartz & Cl, Su, Ir, R @ 50.5' (moderately to completely weathered)

0°, J, MW, UK, No, SR @ 52.5' (moderately weathered) highly fractured; gravel size; w/o infilling @ 52.5-52.8'

0°, J, N, UK, No, Pl, SR @ 52.9'

SHALE; black; highly weathered; very weak; friable; thin bedded; (Bass Islands Group). highly fractured; gravel size; w/o infilling @ 53.0-53.2'

DOLOMITE; light yellowish brown; very fine grained; moderately weathered with zones of complete weathering & fractures; hard; thin bedded; pitty & vuggy; w/close joint spacing; (Bass Islands Group). highly fractured; gravel size; w/o infilling @ 55.0-55.6' grades gray; fresh; very strong; hard; thick bedded; w/o pits & vugs; joints moderately wide @ 55.6'

highly fractured; surface stained; partial clay & quartz infilling @ 58.8-59.6'

Core box #3 starts @ 49.4'.

Core box #4 starts @ 58.5'.

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-391D

SHEET 5 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, Michigan				COORDINATES N 8240.3'		GROUND ELEVATION (DATUM) E 5237.2' 578.7 ft (NAVD 88)		TOTAL DEPTH 101.0 (feet)	
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower				COORDINATE SYSTEM Plant		DATE START 05/16/07		DATE FINISHED 05/22/07	
SAMPLING				LOGGED BY <i>AM</i> Grainger Durcan		CHECKED BY <i>Em</i> Meyer		APPROVED BY <i>Em</i> Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORING									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	
							60		
							518		
			61.0				61		
							517		
							62		
							516		
PQ	8	5.0	4.4	2.5	88	50	63		
							515		
							64		
							514		
							65		
							513		
			66.0				66		
							512		
							67		
							511		
PQ	9	5.0	5.0	4.4	100	88	68		
							510		
							69		
							509		
							70		
							508		
							71		
			71.0				507		
							72		
							506		
							73		
							505		
PQ	10	5.0	4.7	3.3	94	66	74		
							504		
							75		

## CLASSIFICATION OF MATERIALS

## REMARKS

45°, J, N, Qz, Sp, Ir, SR @ 61.7'

weathered shale - 0°, B, Fi, Su, PI, SR @ 62.7-63.0'

shale partings (slightly weathered) - 0°, B, VN - N, Qz, Pa &amp; Sp, PI, SR @ 63.2', 63.4', 63.6', 64.0', 64.3', 64.6', 64.8', 64.9', 65.1', 65.2' 65.3'

DOLOMITE; argillaceous; light yellowish brown; very fine grained; moderately weathered; w/zones of complete weathering & fractures; hard; thin bedded; pitted & vuggy; w/close joint spacing; (Bass Islands Group).  
 shale parting - 0°, B, VN, PI, SR @ 66.7'  
 60°, J, VN, Qz & Sd, Fi, PI & Ir, SR @ 67.4'

25°, J, N, No, No, Su, PI, SR @ 68.4'

0°, J, N, No, No, Su, PI, SR @ 69.8', 69.9'  
 fractured; w/clay infilling @ 70.0-70.3'

25°, J, N, No, No, PI, SR @ 70.7'  
 clay & gravel band @ 71.1-71.3'

fractured w/partial clay infill @ 71.5-72.2'  
 0° & 40°, intersecting, J, N, R & partially fractured @ 72.5'  
 70°, J, N, No, No, Su, Pa, PI, Ir, SR @ 72.9'

fractured w/partial clay infill; highly weathered @ 73.8-75.0'

Core loss possibly due to outwashing @ weathered shale.

Core box #5 starts @ 69.1'.

Possible outwash of fines @ 71.5' &amp; 73.8'.



**BLACK & VEATCH****BORING LOG**

BORING NO. MW-391D

SHEET 6 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8240.3' E 5237.2'										GROUND ELEVATION (DATUM) 578.7 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 05/22/07									
SAMPLING										LOGGED BY <i>Granger/Duncan</i>										CHECKED BY <i>Meyer</i>										APPROVED BY <i>Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
PQ	11	5.0	5.0	3.4	100	68	75		503		90°, J, N - T, Ca, Pa, Pl, WA, Ir, SR - R @ 76.1-77.0', 77.5-79.0', 80.4-81.0'										Core box #6 starts @ 79.0'.																		
			76.0				76		502		0°, J, No, No, Pl, SR @ 77.0'																												
							77		501		0-10°, several, J, N, No, No, Su, Pl, SR @ 77.2', 77.4'																												
							78		500		0°, J, VN - N, No, No, Pl, SR @ 77.4', 77.8', 77.9', 78.2', 78.4'																												
							79		499		clay & gravel band @ 78.7'																												
							80		498		0°, J, VN - N, Su, Ir, SR @ 79.8'										Core box #7 starts @ 89.0'.																		
							81		497		10°, J, MW, Cl, Su & Pa, Ir, R @ 80.1'																												
							82		496		clay & gravel band @ 80.5'																												
							83		495		fractured, partial clay infill, residual @ 81.0-81.9'																												
							84		494		80°, J, N, Cl, Su, Ir, SR @ 82.6' (moderately weathered)																												
							85		493		trace pitting; w/partial calcite infilling @ 84.0-86.0'										Core box #7 starts @ 89.0'.																		
							86		492		B, W, Cl, No, No & Su, Pl, SR @ 85.6-85.8' (residual infill possibly washed out)																												
							87		491		DOLOMITE; moderately weathered; w/pits & vugs; (Bass Islands Group).																												
							88		490		0 & 45°, J, N, No, No, Ir, R @ 86.7'																												
							89		489		DOLOMITE; brecciated; broken; partial crystalline infilling; moderately weathered; surface staining; (Bass Islands Group).																												
PQ	13	5.0	4.9	4.2	98	84	90		489		DOLOMITE; argillaceous; light yellowish brown; very fine grained; moderately weathered; w/zones of complete weathering & fractures; hard; thin bedded; pitty & vuggy; w/close joint spacing; (Bass Islands Group).																												

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-391D

SHEET 7 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 8240.3'		GROUND ELEVATION (DATUM) E 5237.2'		TOTAL DEPTH 101.0 (feet)				
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower				COORDINATE SYSTEM Plant		DATE START 05/16/07		DATE FINISHED 05/22/07				
SAMPLING				LOGGED BY <i>8-20-07</i> Grainger/Duncan		CHECKED BY Meyer <i>Em</i>		APPROVED BY Meyer <i>Em</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							90				30°, J, N, Ca, Pa, Ir, R @ 88.5' 10°, J, N, Ca, Pa, Pl, R @ 88.9'	
			91.0				91				SHALE; highly to completely weathered; fractured (partial clay infill); thin bedded; (Salina Group - Unit F).	
							92				DOLOMITE; argillaceous; dark gray; blocky; micritic; fresh; very strong; very hard; close spaced joints; weak reaction w/HCl; (Salina Group - Unit F).	
							93				0-10°, J, N, No, No, Pl, SR @ 91.5', 92.0', 92.2', 94.0', 94.1', 94.5'	
PQ	14	5.0	5.0	3.4	100	68	94				fractured w/partial clay infill; staining @ 93.6'	
							95				fractured w/partial clay infill @ 95.0-95.7'	
			96.0				96				DOLOMITE; pale brown; micritic; fresh; extremely strong; very hard; (Salina Group - Unit F)	
							97				90°, J, N, No, No, Pl, SR @ 95.7-96.5'	
							98				DOLOMITE; argillaceous; dark gray; blocky; micritic; fresh; very strong; very hard; close spaced joints; (Salina Group - Unit F).	Possible outwash of fines @ 97.0' & 98.7'.
PQ	15	5.0	4.0	1.6	80	32	99				0 & 90°, numerous, J, N, crystalline infill, Pa, Ir @ 96.5-97.6'	
							100				highly fractured band @ 97'	
							101				0°, J, N, Cl, Su, Pl, SR @ 97.6-98.0' (numerous)	
							102				SHALE; dark gray; fine to coarse grained; completely weathered to residual; friable & soft; w/gravel size fragments; (Salina Group - Unit F).	Core box #8 starts @ 98.8'.
							103					
							104					
							105					Bottom of boring @ 101.0'. Water level @ 10.5' @ completion of drilling. Monitoring well installed on 06/02/07.

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-391S

SHEET 1 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8242.9' E 5232.9'										GROUND ELEVATION (DATUM) 578.6 ft (NAVD 88)										TOTAL DEPTH 19.0 (feet)																															
SURFACE CONDITIONS Level, gravel base, SE of S Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/30/07										DATE FINISHED 05/30/07																															
SAMPLING										LOGGED BY <i>[Signature]</i> Duncan										CHECKED BY <i>[Signature]</i> Meyer										APPROVED BY <i>[Signature]</i> Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
														0								Undifferentiated Overburden (See log MW-391D)																				Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.																			
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-391S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																										
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8242.9' E 5232.9'										GROUND ELEVATION (DATUM) 578.6 ft (NAVD 88)										TOTAL DEPTH 19.0 (feet)																																																																
SURFACE CONDITIONS Level, gravel base, SE of S Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/30/07										DATE FINISHED 05/30/07																																																																
SAMPLING										LOGGED BY <i>[Signature]</i> Duncan										CHECKED BY Meyer <i>sm</i>										APPROVED BY Meyer <i>sm</i>																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
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**BLACK & VEATCH****BORING LOG**

BORING NO. MW-391Sa

SHEET 1 OF 1

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8242.9'										GROUND ELEVATION (DATUM) E 5232.9' 578.6 ft (NAVD 88)										TOTAL DEPTH 6.0 (feet)																															
SURFACE CONDITIONS Level, gravel base, SE of S Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/22/07										DATE FINISHED 05/22/07																															
SAMPLING										LOGGED BY Duncan <i>[Signature]</i>										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
SPT		1		12		17		8		25		0.8		0				578				Poorly graded <u>GRAVEL</u> with Sand (GP) - About 90% fine to coarse, subangular to angular hard gravel; about 10% fine sand; very dark gray; medium dense; dry to moist; weak reaction w/HCl; w/trace of organics; (Fill). Undifferentiated Overburden (See Log for MW-391D)																				Boring advanced w/4 1/4" ID, 8" OD hollow stem augers w/tricone center plug. SPT performed w/BK-81 automatic hammer.  Very hard drilling. Had to shift rig to maintain vertical auger alignment.																			
SPT		2		6		7		7		14		0.6		1				577																																											
SPT		3		6		14		21		35		0.5		2				576																																											
SPT		4		11		24		66		90		0.7		3				575																																											
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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-393D

SHEET 1 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																															
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit. near road edge										COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																															
SAMPLING										LOGGED BY Grainger/Duncan										CHECKED BY Meyer										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
SPT	1	2	13	12	25	0.6							0		576							Poorly graded GRAVEL with Silt and Sand (GP-GM) - About 70% fine to coarse, angular, hard gravel w/ max. size 1 1/2"; about 20% coarse, angular sand; about 10% fines; pinkish gray; dense; moist; strong reaction w/HCl; homogeneous; (Fill).																				Boring advanced w/4 1/2" ID, 8" OD hollow stem augers w/tricone center bit. SPT performed w/BK81 automatic hammer.																			
SPT	2	4	5	5	10	0.7							1		575							Lean CLAY (CL) - About 85% medium plasticity, medium toughness, no dilatancy, medium dry strength fines; about 10% fine to medium, angular to subrounded sand; about 5% organic material; very dark gray; hard; moist; no reaction w/HCl; (Topsoil).																																							
TW	3												2		574							Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, medium to high dry strength fines; about 10% fine to coarse, angular to subrounded, hard sand; grayish brown; hard; dry to moist; strong reaction w/HCl; homogeneous; (Glacial Till).																																							
													3		573																																														
													4		572							grades w/fine gravel, 1/2" max. size; & iron-stained fractures w/grayish rock @ 5.0'																				PP>4.5 TSF @ 4.0'																			
SPT	4	8	13	17	30	1.3							5		571																																														
TW	5												6		570																											Refusal to thin-walled sampler @ 7.1'																			
TW	6												7		569																											Refusal to thin-walled sampler @ 8.5'																			
SPT	7	8	14	18	32	1.5							8		568																											PP>4.5 TSF @ 8.5'																			
													9		567							grades very hard																																							
													10		566																																														
SPT	8	9	31	22	53	0.9							11		565							Fat CLAY (CH) - About 90% high plasticity, high toughness, no dilatancy, very high dry strength fines; about 5% fine to coarse angular to subrounded hard gravel, max. size 1"; about 5% fine to coarse, rounded, hard sand; dark gray; very hard; dry; strong reaction w/HCl; w/trace iron streaks; homogeneous																				Water encountered @ 10.7' during drilling.																			
													12		564																											Water level rose to 3.2' when gravel encountered.																			
SPT	9	9	5	10	15	0.7							13		563							Poorly graded GRAVEL with Sand (GP) - About 50% fine to coarse, flat & elongated, angular to subangular, hard gravel w/max. size 1"; about 45% angular to subrounded, hard sand; about 5% fines; grayish brown; very dense; strong reaction w/HCl; homogeneous																																							
													14		562							grades medium dense @ 11.5'																																							
													15		562							DOLOMITE; grayish brown; micritic to very fine grained; fresh; very strong; hard; w/trace pitting; (Bass Islands Group).																				Below 14.0', continued w/ triple tube wire																			

# BLACK & VEATCH

# BORING LOG

**BORING NO. MW-393D**

SHEET 2 OF 11

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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PQ	1	2.0	1.7	1.7	85	85	15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-393D

SHEET 3 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																															
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge										COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																															
SAMPLING										LOGGED BY <i>For Grainger/Duncan</i>										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
PQ		5		3.6		2.8		2.2		78		61		30																																															
						31.0								31																																															
														32																																															
														33																																															
														34																																															
														35																																															
PQ		6		1.4		0.6		0.0		42		0		36																																															
						34.6								37																																															
														38																																															
														39																																															
														40																																															
														41																																															
						41.0								42																																															
														43																																															
														44																																															
														45																																															



**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 4 OF 11

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, Michigan				COORDINATES N 9367.4'		GROUND ELEVATION (DATUM) E 2922.8'		TOTAL DEPTH 150.0 (feet)	
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge				COORDINATE SYSTEM Plant		DATE START 05/03/07		DATE FINISHED 05/10/07	
SAMPLING				LOGGED BY <i>for</i> Grainger/Duncan		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD			
CORING									
							DEPTH (FEET)		
							SAMPLE TYPE		
							ELEVATION (FEET)		
							GRAPHIC LOG		
							CLASSIFICATION OF MATERIALS	REMARKS	
							45		
							531		
			46.0				46	SHALE; residual	
							530		
							47		
							529	DOLOMITE; grayish brown; micritic to very fine grained; fresh; very strong; hard; w/fractures; slight discoloration; trace vugs w/no infill; (Bass Islands Group)	
PQ	9	5.0	4.7	2.5	94	50	48	fractured @ 47.0-47.7'	
							528	30°, J, Su, Ir, R @ 47.7'	
							49	0°-90° numerous, J, N-MW, Qz&Cl, Fi, Su, Ir, S @ 47.8-50.4'	
							527		
							50	interbeds of dolomite & shale; moderately weathered @ 50.0-50.7'	
							526	grades gray to dark gray striations @ 50.7'	
			51.0				51		
							525	Core box #5 starts @ 51.0'.	
							52		
							524	0°-90° numerous, J, N, No, Su, Ir, R @ 52.5-54.7'	
PQ	10	5.0	4.7	4.3	94	86	53		
							523		
							54	shale parting @ 54.2'	
							522	grades gray @ 54.7'	
							55		
							521		
			56.0				56	residual @ 56.0-56.3'	
							520	Soft drilling @ 56.0'.	
							57		
							519	45°, J, N, No, Su, Ir, SR @ 57.0-57.5'	
							58		
PQ	11	5.0	4.7	4.3	94	86	518	0°, J, N, No, Su, Pl, SR @ 58.4'	
							59	90°, J, N, No, Su, Ir, SR @ 58.4-58.7'	
							517	30°, J, N, No, Su, Ir, SR @ 58.6'	
							60	grades gray to dark gray striations @ 59.0'	

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 5 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																		
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																																								
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge															COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																																			
SAMPLING															LOGGED BY <i>Grainder/Dumond</i>										CHECKED BY Meyer <i>Em</i>										APPROVED BY Meyer <i>Em</i>																																			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS																				REMARKS																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																
CORING																																																																						
PQ	12	5.0	5.0	4.3	100	86	60		516		moderately weathered partings @ 60.5'																				Core box #6 starts @ 61.0'.																																							
			61.0				61		515		grades moderately strong to strong @ 61.5'																																																											
							62		514		45°, several, J, VN, No, Su, Ir, SR @ 61.5-62.6'																																																											
							63		513		slightly weathered parting @ 62.6'																																																											
							64		512		0°, J, VN, No, No, PI, SR @ 63.4', 64.0', 65.0'																																																											
							65		511																																																													
			66.0				66		510		grades highly weathered; moderately strong @ 65.5'																																																											
							67		509																																																													
PQ	13	5.0	5.0	4.5	100	90	68		508		grades slightly weathered; very strong @ 66.5'																																																											
							69		507		70°, J, VN, No, No, Ir, SR @ 66.5'																																																											
							70		506		30°, J, T, No, No, Ir, SR @ 68.0', 69.5'																																																											
							71		505		grades fresh; gray; extremely strong; hard @ 70.1'																																																											
			71.0				72		504		grades slightly weathered @ 71.0'																				Core box #7 starts @ 71.0'																																							
							73		503		90°, J, N, Qz, Cl&Sd, Su, Fi, Ir, R @ 71.0-76.8'																																																											
							74		502																																																													
							75																																																															
PQ	14	5.0	4.2	2.7	84	54																																																																

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**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 6 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																																																																									
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge															COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																																																																				
SAMPLING															LOGGED BY Grainger/Dunbar										CHECKED BY Meyer										APPROVED BY Meyer																																																																				
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>															SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>															CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																	
														75																																																																																									
														76										501																																																																															
							76.0																											0°, J,N,Qz,Cl&Sd,Su,Fi,Ir,R @ 76.5', 76.8'																																																																					
														77																																																																																									
														78										499																				5" thick highly weathered bed @ 77.6'																																																											
PQ	15	5.0	5.0	4.6	100	92								79										498																																																																															
														80																																																																																									
														81										496																																																																															
							81.0																																					20°,J,N,No,No,PI,SR @ 81.5'																																																											
														82										495																				0°,J,N,No,No,PI,SR @ 82.0'																																																											
														83										494																				45°,J,N,No,No,Ir,SR @ 82.5'																																																											
PQ	16	5.0	5.0	3.2	100	64								84										493																				0°,J,MW,Qz,Cl&Sd,Fi,PI&Ir,SR @ 83.7', 85.2', 86.0'																																																											
														85																														90°, J,MW,Qz,Cl&Sd,Fi,Ir,SR @ 83.7-86.0'																																																											
														86										492																																																																															
														87										491																																																																															
							86.0																																																																																																
														88										490																																																																															
PQ	17	5.0	4.6	2.6	92	52								89										489																				moderately weathered, gravel to cobble size broken rock fragments @ 86.8-87.4'																																																											
														90										488																				1" moderately weathered band @ 88.1'																																																											
																																												2½" highly weathered band @ 88.5'																																																											
														91										487																				<1/4" highly weathered partings @ 89.5-90.6'																																																											
														92																																																																																									

Core box #8 starts @ 81.0'.

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 7 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																								
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)														
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge															COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07									
SAMPLING															LOGGED BY <i>Granger/Duncan</i>										CHECKED BY Meyer <i>Em</i>										APPROVED BY Meyer <i>Em</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																
PQ	18	5.0	3.8	2.0	76	40	90		486		numerous <2 1/2" highly weathered bands @ 91.2-95.0'	Core box #9 starts @ 91.0'.																																
							91		485																																			
							92		484																																			
							93		483																																			
							94		482																																			
							95		481																																			
							96		480																																			
							97		479																																			
							98		478																																			
							99		477																																			
PQ	19	5.0	4.5	2.5	90	50	100		476		0°-90°, numerous, J, MW, No, Su, PI & Ir, SR @ 96.0-101.0'	Water level @ 2.8' prior to drilling on 05/09/07.																																
							101		475																																			
							102		474																																			
							103		473																																			
							104		472																																			
							105																																					
PQ	20	5.0	3.9	2.9	78	58	101		475		fractured; fine to coarse gravel size @ 101.8-102.0'	Core box #10 starts @ 101.0'. Possible washout @ 101.0-101.5'. Possible residual & coarse sand washout @ 101.8'.																																
							102		474																																			
							103		473																																			
							104		472																																			
							105																																					
PQ	20	5.0	3.9	2.9	78	58	101		475		<1/4" moderately weathered parting @ 102.8' & 103.5'	grades vuggy																																
							102		474																																			
							103		473																																			
							104		472																																			
							105																																					

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 8 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																															
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge															COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																										
SAMPLING															LOGGED BY Grainger/Dunham										CHECKED BY Meyer										APPROVED BY Meyer																										
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
PQ		21		5.0		2.0		1.3		40		26		105																																															
						106.0								106																																															
														107																																															
														108																																															
														109																																															
														110																																															
														111																																															
						111.0								112																																															
														113																																															
														114																																															
														115																																															
														116																																															
						116.0								117																																															
														118																																															
														119																																															
														120																																															

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**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 9 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																															
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge															COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																										
SAMPLING															LOGGED BY Grainger/Duncan										CHECKED BY Meyer										APPROVED BY Meyer																										
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
PQ		24		5.0		3.8		1.8		76		36		120								20° J,N,No,Su,Ir,R @ 119.0'																																							
														121								BRECCIA; light yellowish brown & dark gray; weakly/partially healed; micritic to very coarse grained; moderate to completely weathered; weak to very strong; friable to hard; extremely fractured; angular clasts, strong reaction w/HCl; (Salina Group - Unit F). thin bed; fresh; extremely strong; hard; w/trace vugs @ 120.0-120.5'																																							
														122																																															
														123																																															
														124																																															
														125								DOLOMITE; grayish brown; micritic to very fine grained; extremely strong; hard; highly fractured; w/ angular fragments; trace pits; (Salina Group - Unit F).																																							
														126																												Core box #12 starts @ 126.0'.																			
														127																																															
														128																																															
PQ		25		5.0		3.7		2.2		74		44		129								BRECCIA; (Salina Group - Unit F).																																							
														130																																															
														131								DOLOMITE; light brown; fresh; extremely strong; hard; highly fractured; trace pits (Salina Group - Unit F).																																							
														132																																															
														133								CLAYSTONE; dark gray; very fine grained; fresh; very strong; hard; no reaction w/HCl; fractured into irregular conical fragments; (Salina Group - Unit F).																																							
														134																																															
PQ		26		5.0		1.8		1.4		36		28		135								BRECCIA; gray; broken; very fine to very coarse grained; fresh; moderately strong; low hardness; strong reaction w/HCl; sand & gravel size clasts; (Salina Group - Unit F).																				Core loss due to washout leaving clayey sand & gravel size breccia fragments @ 132.3'.																			

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 10 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																															
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge															COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																										
SAMPLING															LOGGED BY <i>Granger/Dugan</i>										CHECKED BY Meyer <i>Em</i>										APPROVED BY Meyer <i>Em</i>																										
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
PQ		27		5.0		4.4		4.2		88		84		135				441																																											
						136.0								136				440																																											
														137				439																																											
														138				438																																											
														139				437																																											
														140				436																																											
						141.0								141				435																																											
														142				434																																											
PQ		28		5.0		3.1		2.1		62		42		143				433																																											
														144				432																																											
														145				431																																											
						146.0								146				430																																											
														147				429																																											
PQ		29		4.0		3.2		3.2		80		80		148				428																																											
														149				427																																											
														150																																															

For PQ-27, to improve recovery allowed time to elapse before withdrawing core barrel.

Core box #13 starts @ 141.0'.

DOLOMITE; grayish brown; micritic; fresh; very strong; hard; trace pits & vugs; irregular vertical & horizontal fractures; slightly weathered; (Salina Group - Unit F).

CLAYSTONE; dark gray; very fine grained; (Salina Group - Unit F).

BRECCIA; gray; very fine to very coarse grained; fresh; moderately strong; low hardness; massive; strong reaction w/HCl; (Salina Group - Unit F).



BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-393D

SHEET 11 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										TOTAL DEPTH 150.0 (feet)																															
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge															COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/10/07																										
SAMPLING															LOGGED BY <i>Grainier/Daniel</i>										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>																										
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
														150																												Bottom of boring @ 150.0'. Water level not recorded. Monitoring well installed on 06/06/07.																			
														151				426																																											
														152				425																																											
														153				424																																											
														154				423																																											
														155				422																																											
														156				421																																											
														157				420																																											
														158				419																																											
														159				418																																											
														160				417																																											
														161				416																																											
														162				415																																											
														163				414																																											
														164				413																																											
														165				412																																											



**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393S

SHEET 1 OF 1

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 9360.0' E 2918.2'				GROUND ELEVATION (DATUM) 576.5 ft (NAVD 88)				
SURFACE CONDITIONS Slight slope				COORDINATE SYSTEM				DATE START 05/06/07				
								DATE FINISHED 05/06/07				
SAMPLING				LOGGED BY Duncan				CHECKED BY Meyer				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							0				Undifferentiated Overburden (See Log for MW-393D)	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers w/center plug.
							1		576			
							2		575			
							3		574			
							4		573			
							5		572			
							6		571			
							7		570			
							8		569			
							9		568			
							10		567			
							11		566			Bottom of boring @ 9.8'. Water not encountered. Monitoring well installed on 05/06/07.
							12		565			
							13		564			
							14		563			
							15		562			

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-395D

SHEET 1 OF 7

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483														
PROJECT LOCATION Monroe, Michigan					COORDINATES N 8900.0' E 4600.1'					GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)					TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Level grassed area					COORDINATE SYSTEM Plant					DATE START 05/16/07					DATE FINISHED 05/21/07									
SAMPLING										LOGGED BY <i>Geo</i> Grainger/Duncan					CHECKED BY <i>EM</i> Dogbey/Meyer					APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	RQD																		
							0		577		Gravelly <u>COBBLES</u> - About 50% angular, rounded to flat & elongated, very hard cobbles w/max. size 10"; about 30% fine to coarse, angular, elongated to rounded, hard gravel; about 10% fine to coarse angular, hard sand; about 10% fines; pinkish gray; medium dense to dense; strong reaction w/HCl; homogeneous; (Fill).					Boring advanced w/vacuum excavation.  Water encountered @ 4.6' during vacuum excavation. Boring collapsed from 7' to 5' after vacuum excavation. Below 5.0' continued w/4 1/4" ID, 8" OD hollow stem augers w/ tricone center bit.								
							1		576															
							2		575															
							3		574															
							4		573															
							5		572															
							6		571															
							7		570															
							8		569															
							9		568															
SPT	1	2	1	2	3	0.6	10		567															
							11		566															
SPT	2	1	1	1	3	0.9	12		565															
							13		564															
							14		563															
							15		563															
												Fat <u>CLAY</u> (CH) - About 100% high plasticity, low toughness, no dilatancy fines; dark gray & olive brown; soft; moist; no odor; no reaction w/HCl; laminated color dark gray & olive brown  grades slow dilatancy; moist to wet @ 10.5'					SPT performed w/BK-81 automatic hammer.							
												Lean <u>CLAY</u> with Sand (CL) - About 85% low plasticity, medium toughness, slow dilatancy fines; about 15% fine to coarse, rounded & subrounded sand; olive brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).					TV = 2.0 TSF							
SPT	4	5	8	11	19	NR																		

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-395D

SHEET 2 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																										
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8900.0' E 4600.1'										GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)																																																																
SURFACE CONDITIONS Level grassed area										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 05/21/07																																																																
SAMPLING										LOGGED BY <i>Granger/Duncan</i>										CHECKED BY <i>Dogbey/Meyer</i>										APPROVED BY <i>Meyer</i>																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																								
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																							
TW 5										0.5										15										562										grades w/occasional fine gravel @ 15.5'										TW sampler refusal @ 16.0'. TV = 2.25 TSF																																												
SPT 6 26 15 21 36 1.3										16										561																																																																										
TW 7										0.1										17										560										Lean CLAY with Sand (CL) - About 85% low plasticity, medium toughness, slow dilatancy, medium to high dry strength fines; about 15-25% very fine sand to fine gravel; very dark gray; very hard; dry to moist; strong reaction w/HCl; homogeneous										TW sampler refusal @ 18.5'.  SPT refusal @ 20.5'. Below 20.5' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Core box #1 starts @ 20.5'.																																												
SPT 8 14 20 23 43 1.3										18										559																																																																										
SPT 9 6 50/4" 20.5 0.5 50 0.6										19										558										DOLOMITE; gray; blocky; micritic; fresh; extremely strong; hard; irregular, tight veins filled w/shale; (Bass Islands Group). grades massive @ 21.0'																																																																
PQ 1 0.5 21.0 0.5 100 100										20										557																																																																										
																				21										556																																																																
																				22										555																																																																
PQ 2 5.0 5.0 5.0 100 100																				23										554																																																																
																				24										553																																																																
																				25										552																																																																
																				26										551																																																																
																				27										550																																																																
PQ 3 5.0 5.0 5.0 100 100																				28										549																																																																
																				29										548										0°,J,N,No,Su,Ir,SR @ 29.5'																																																						
																				30										548																																																																

CLIENT										PROJECT										PROJECT NO.																			
Detroit Edison										Fermi 3 COL Application										147483																			
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																								
Monroe, Michigan					N 8900.0'					E 4600.1'					577.3 ft (NAVD 88)		101.0 (feet)																						
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																						
Level grassed area										Plant					05/16/07		05/21/07																						
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																			
										Grainier/Duncan					Dogbey/Meyer					Meyer																			
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE										RUN NUMBER					RUN LENGTH					RUN RECOVERY					RQD RECOVERY					PERCENT RECOVERY					RQD				
PQ										4					5.0					4.3					2.5					86					50				
															31.0																								



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-395D

SHEET 4 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																	
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8900.0' E 4600.1'										GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)																																							
SURFACE CONDITIONS Level grassed area										COORDINATE SYSTEM Plant										DATE START 05/16/07										DATE FINISHED 05/21/07																																							
SAMPLING										LOGGED BY <i>G. Ka</i> Grainger/Duncan										CHECKED BY <i>En</i> Dogbey/Meyer										APPROVED BY <i>En</i> Meyer																																							
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY ROD RECOVERY PERCENT RECOVERY ROD										45										532																																																	
										46										531																																																	
										47										530																																																	
PQ 7 5.0 5.0 5.0 100 100										48										529																																																	
										49										528																																																	
										50										527																																																	
										51										526																																																	
PQ 8 5.0 5.0 3.8 100 76										52										525																																																	
										53										524																																																	
										54										523																																																	
										55										522																																																	
										56										521																																																	
PQ 9 5.0 5.0 4.8 100 96										57										520																																																	
										58										519																																																	
										59										518																																																	
										60																																																											

5/30/2008 12:13 PM DTE-Fermi 3

Core box #4  
starts @ 50.1'.Core box #5  
starts @ 59.8'.

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-395D

SHEET 5 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 8900.0'		GROUND ELEVATION (DATUM) E 4600.1'		TOTAL DEPTH 101.0 (feet)				
SURFACE CONDITIONS Level grassed area				COORDINATE SYSTEM Plant		DATE START 05/16/07		DATE FINISHED 05/21/07				
SAMPLING				LOGGED BY <i>Grainger/Duncan</i>		CHECKED BY <i>Em Meyer</i>		APPROVED BY <i>Em Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							60		517			
			61.0				61		516		shale parting - 0°,B,N,PI,SR @ 61.4'	
							62		515		dolomitic band; crystalline, moderately weathered; 0°,J,N,Pa,Su,PI,SR @ 62.1'	
PQ	10	5.0	4.6	4.6	92	92	63		514		shale parting, slightly weathered - 0°,B,VN,PI,SR @ 63.0'	
							64		513		shale parting - 0°,B,T,crystalline infill,R @ 64.4'	
							65		512		15°,several,J,N,Qz,Su,Ir,SR @ 65.3-65.4'	
			66.0				66		511		80°,J,VN,crystalline,Su,Ir,SR @ 66-66.4'	
							67		510		grades argillaceous, pitty & vuggy @ 66.7'	
PQ	11	5.0	4.8	4.0	96	80	68		509		shale parting - 5°,B,T,Su,PI,SR @ 67.3'	
							69		508		10°,V,T,No,St,R @ 68.1'	
							70		507		shale parting - 10°,B,VN,Pa,PI,SR @ 69.0' fractured, highly weathered; some clay infill @ 69.0-69.6' vuggy dolomite @ 69.0-69.7'	Core box #6 starts @ 69.4'.
			71.0				71		506		fractured; highly weathered; some clay infill @ 70.2'	
							72		505		SHALE; dolomitic; dark gray & gray, striated w/trace of very pale brown streaks; fissile & platy; highly weathered; residual infill (Salina Group - Unit F).	
							73		504		grades fresh; extremely strong; hard; massive; moderately wide joint spacing @ 72.0'	
PQ	12	5.0	4.8	4.3	96	86	74		503		0°,J,VN,No,No,PI,SR @ 72.4', 73.2', 73.9', 74.7'	
							75		503			



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. MW-395D

SHEET 6 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 8900.0'		GROUND ELEVATION (DATUM) E 4600.1'		TOTAL DEPTH 101.0 (feet)				
SURFACE CONDITIONS Level grassed area				COORDINATE SYSTEM Plant		DATE START 05/16/07		DATE FINISHED 05/21/07				
SAMPLING				LOGGED BY <i>[Signature]</i> Grainger/Duncan		CHECKED BY <i>[Signature]</i> Dogbey/Meyer		APPROVED BY <i>[Signature]</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							75		502		0°,J,VN,No,No,PI,SR @ 75.3'	
			76.0				76		501		0°,J,VN,No,No,PI & Ir,SR @ 76.3', 76.7'	
							77		500		DOLOMITE; light brownish gray; blocky; very fine grained; fresh; extremely strong; hard; thick bedded; (Salina Group - Unit F). 0-45°, numerous, J, MW, crystalline & CI, Pa, Ir, R @ 76.9', 77.0', 77.9', 78.2'	
PQ	13	5.0	4.7	2.7	94	54	78		499		90° J, N, CI & crystalline, Pa, Ir, R @ 77.9-78.4'	
							79		498		90° J, T, H & Qz, Pa, Ir @ 78.1-78.9'	Core box #7 starts @ 78.7'.
							80		497		SHALE; dolomitic; dark gray & gray, striated w/trace of very pale brown partings; blocky; fresh; very strong; hard; w/trace highly weathered partings & bands; (Salina Group - Unit F). 90° J, N, CI & crystalline, Pa, Ir, R @ 78.2-78.6'	
							81		496		numerous J, VN, No, No, SR @ 78.4-80.4'	
			81.0				82		495		highly fractured, weathered; some 90° J @ 79.5-80.0'	
							83		494		grades vuggy; w/calcite partial infilling @ 82.4'	
PQ	14	5.0	5.0	4.6	100	92	84		493		0°, J, VN, Ca, Pa, PI, SR @ 82.4', 84.3', 84.5'	
							85		492		0-30°, J, N, Ca, Pa, Ir, SR @ 82.9', 83.3', 84.0', 84.8'	
							86		491		highly weathered band w/CI & sand infilling @ 84.6'	
							87		490		90°, J, VN, Ca, Pa, Ir, SR @ 84.8-85.4'	
							88		489		0°, J, N, Ca, Pa, Ir, SR @ 85.4'	
			86.0				89		488		0°, J, VN, No, No, PI, SR @ 86.7'	
PQ	15	5.0	3.2	1.4	64	28	90		487		grades completely weathered @ 87.0-89.5'	Possible solutioning through joints @ 87.0 & 90.0'. Possible 1.8' of fines & sand washout @ 86.0-91.0'. Core box #8 starts @ 88.0'.
											weathered rock fractures @ 88.5-90.7'.	
											DOLOMITE; gray; blocky; micritic; fresh; extremely	

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-395D

SHEET 7 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8900.0' E 4600.1' 577.3 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)	
SURFACE CONDITIONS Level grassed area										COORDINATE SYSTEM Plant					DATE START 05/16/07					DATE FINISHED 05/21/07	
SAMPLING										LOGGED BY <i>Grainger/Duncan</i>					CHECKED BY <i>Em for Dogbey/Meyer</i>					APPROVED BY <i>Em Meyer</i>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
							90		487		strong; hard; highly fractured; weathered fracture faces; (Salina Group - Unit F).										
			91.0				91	486	grades highly fractured & completely weathered; w/residual infill @ 91'												
							92	485													
PQ	16	5.0	1.7	0	34	0	93	484						Possible washout of fines @ 88.5-96.0'.							
							94	483													
							95	482													
			96.0				96	481													
							97	480													
PQ	17	5.0	3.0	2.8	60	56	98	479	SHALE; dolomitic; dark gray; blocky; highly weathered; strong; moderately hard to hard; pitted (vuggy); close joint spacing; highly fractured, 0-90°, numerous, J, N, Cl, Pa & Fi, Pl & Ir, SR to R; (Salina Group - Unit F).					Water level @ 5.3' prior to drilling on 05/21/07. Boring @ 96.0'. After PQ-16 pulled outer core barrel for repairs.							
							99	478													
							100	477													
							101	476						Bottom of boring @ 101.0'. Water level not recorded. Monitoring well installed on 06/01/07.							
							102	475													
							103	474													
							104	473													
							105														



**BLACK & VEATCH****BORING LOG**

BORING NO. MW-395S

SHEET 1 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																											
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8906.2' E 4599.7'										GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)		TOTAL DEPTH 14.4 (feet)																									
SURFACE CONDITIONS Level, gravel surface, E of Cooling Towers										COORDINATE SYSTEM Plant										DATE START 05/30/07		DATE FINISHED 05/30/07																									
SAMPLING										LOGGED BY <i>[Signature]</i> Duncan										CHECKED BY <i>[Signature]</i> Dogbey		APPROVED BY <i>[Signature]</i> Meyer																									
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD RECOVERY</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS				REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																									
							0				577				Undifferentiated Overburden (See log for MW-395D)				Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.																												
							1				576																																				
							2				575																																				
							3				574																																				
							4				573																																				
							5				572																																				
							6				571																																				
							7				570																																				
							8				569																																				
							9				568																																				
							10				567																																				
							11				566																																				
							12				565																																				
							13				564																																				
							14				563																																				
							15																																								

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-395S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																														
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8906.2'										GROUND ELEVATION (DATUM) E 4599.7' 577.3 ft (NAVD 88)										TOTAL DEPTH 14.4 (feet)																				
SURFACE CONDITIONS Level, gravel surface, E of Cooling Towers										COORDINATE SYSTEM Plant										DATE START 05/30/07										DATE FINISHED 05/30/07																				
SAMPLING										LOGGED BY <i>[Signature]</i> Duncan										CHECKED BY <i>[Signature]</i> Dogbey										APPROVED BY <i>[Signature]</i> Meyer																				
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																												
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG																																															
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																												
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG																																															
										15										Bottom of boring @ 14.4'. Water level not recorded. Piezometer installed on 05/30/07.																														
										16																																								
										17																																								
										18																																								
										19																																								
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**BLACK & VEATCH****BORING LOG**

BORING NO. P-382S

SHEET 1 OF 2

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483		
PROJECT LOCATION Monroe, Michigan			COORDINATES N 5730.3'		E 3132.4'		GROUND ELEVATION (DATUM) 576.4 ft (NAVD 88)			TOTAL DEPTH 16.5 (feet)		
SURFACE CONDITIONS Wooded high spot along a gravel road					COORDINATE SYSTEM Plant			DATE START 05/06/07		DATE FINISHED 05/07/07		
SAMPLING					LOGGED BY Ohlmacher <i>Geo</i>			CHECKED BY Meyer <i>Em</i>		APPROVED BY Meyer <i>Em</i>		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
SPT	1	1	11	31	42	1.3	0		576		SILT (ML) - About 90% low plasticity, low toughness, rapid dilatancy fines; about 10% organics w/tree roots; very dark grayish brown; soft; moist; no reaction w/HCl; homogeneous; (Topsoil-Fill).	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.
SPT	2	23	20	15	35	1.3	1		575		Poorly graded GRAVEL with Sand (GP) - About 70% fine to coarse, angular to subangular, hard gravel, max size 1.2", fractured w/3 hammer blows; about 25% fine to coarse, subangular to subrounded, sand; about 5% fines; light gray; dense; moist; strong reaction w/HCl; homogeneous; (Fill).	
SPT	3	6	22	5	27	0.6	2		574		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, slow dilatancy fines; about 30% fine to coarse, angular to subangular sand; brown; hard; moist; strong reaction w/HCl; homogeneous; (Fill).	
SPT	4	WOHWOH	2	2	2	1.0	3		573		grades w/gravel @ 3.5'	
SPT	5	WOHWOH	1	1	1	0.8	4		572		ORGANIC Soil (OL) - About 100% medium plasticity, medium toughness, slow dilatancy, fines; black; very soft; moist; no reaction w/HCl; plant fragments; homogeneous; (Peat).	
SPT	6	WOH	1	2	3	1.3	5		571		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; trace sand; dark brown; very soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
SPT	7	1	2	1	3	1.4	6		570		grades gray @ 6.5'	
SPT	8	1	1	3	4	1.5	7		569		grades bluish gray; soft @ 7.5'	
SPT	9	5	10	14	24	1.5	8		568		grades brownish yellow @ 9.5'	
SPT	10	5	10	15	25	1.1	9		567		grades laminated @ 10.5'	
							10		566			
							11		565			
							12		564			
							13		563		Sandy SILT (ML) - About 60% medium plasticity, medium toughness, slow dilatancy fines; about 30% fine to coarse, subangular to subrounded sand; about 10% fine to coarse, angular to subangular gravel; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
							14		562			
							15		562			

**BLACK & VEATCH****BORING LOG**

BORING NO. P-382S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 5730.3'										GROUND ELEVATION (DATUM) E 3132.4' 576.4 ft (NAVD 88)										TOTAL DEPTH 16.5 (feet)									
SURFACE CONDITIONS Wooded high spot along a gravel road										COORDINATE SYSTEM Plant										DATE START 05/06/07										DATE FINISHED 05/07/07									
SAMPLING										LOGGED BY Ohlmacher <i>Geo</i>										CHECKED BY Meyer <i>Em</i>										APPROVED BY Meyer <i>Em</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORING																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
SPT	11	4	8	12	20	1.5	15		561		grades dark gray @ 15.5'																												
							16		560																														
							17		559																														
							18		558																														
							19		557																														
							20		556																														
							21		555																														
							22		554																														
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							25		551																														
							26		550																														
							27		549																														
							28		548																														
							29		547																														
							30																																

Bottom of boring @ 16.5'. Water level @ 14' @ completion of drilling. Piezometer installed on 05/07/07.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. P-385D

SHEET 1 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, Michigan				COORDINATES N 6201.7' E 4390.0'				GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)				TOTAL DEPTH 102.5 (feet)	
SURFACE CONDITIONS Gravel parking lot near a field						COORDINATE SYSTEM		DATE START 05/07/07		DATE FINISHED 05/09/07			
SAMPLING						LOGGED BY Ohlmacher		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	1					3.0	0		580		Well graded GRAVEL with Sand and Cobbles (GW) - About 55% fine to coarse, angular to subangular, hard gravel; about 30% fine to coarse, subangular to subrounded, sand; about 10% angular to subangular, hard cobbles; about 5% fines; reddish gray; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	
							1	579					
							2	578					
							3	577					
							4	576					
							5	575					
S	2		5.0			3.0	6	574					
							7	573					
							8	572					
							9	571					
							10	570					
							11	569					
							12	568					
S	3		10.0			2.9	13	567					
							14	566					
							14.3	566	Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% fine	PP = 0.75 TSF			

**BLACK & VEATCH****BORING LOG**

BORING NO. P-385D

SHEET 2 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6201.7' E 4390.0'										GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)										TOTAL DEPTH 102.5 (feet)																															
SURFACE CONDITIONS Gravel parking lot near a field															COORDINATE SYSTEM										DATE START 05/07/07										DATE FINISHED 05/09/07																										
SAMPLING															LOGGED BY Ohlmacher <i>CCO</i>															CHECKED BY Dogbey/Ohlmacher <i>CCO</i>															APPROVED BY Meyer <i>EM</i>																
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
S		4				15.0						4.3		15				565				to coarse, angular to subrounded sand; gray; soft; moist; weak reaction w/HCl; homogeneous; (Lacustrine Deposit).																																							
														16				564																																											
														17				563																																											
														18				562																																											
														19				561				Sandy lean <u>CLAY</u> with Gravel (CL) - About 65% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, rounded to subangular sand; about 15% fine to coarse, rounded to subangular gravel, max. size 1"; about 5% angular, hard cobbles, max. size 4"; gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).																																							
S		5				20.0						5.8		20				560																																											
														21				559																																											
														22				558																																											
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**BLACK & VEATCH**

# BORING LOG

BORING NO. P-385D

**SHEET 3 OF 7**

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, Michigan				N 6201.7'				E 4390.0'				580.1 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Gravel parking lot near a field										05/07/07		05/09/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Ohlmacher				Dogbey/Ohlmacher				Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET	6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
S	7			30.0			4.9		30		550				
									31		549		DOLOMITE; gray; very fine grained; moderately weathered; extremely strong; moderately hard; banded; fractures filled w/washed-in glacial till; (Bass Islands Group).		
									32		548				
									33		547		grades highly weathered @ 33'		
									34		546		grades slightly weathered @ 34'	Set nominal 6" temporary steel casing to 33.5'	
PQ	1	4.0	4.0	35.0	3.7	100	93		35		545		80°, J, No, No, PI, SR @ 35.0-35.3'	Below 35.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 34.0'. The top 1 foot of the sample in core box #1 is from S7.	
									36		544				
									37		543		0°, B, T, No, No, PI, SR @ 36.5' (2 joints) 90°, J, T, No, No, PI, SR @ 36.6-37.0'		
									38		542		10% vugs filled w/calcite @ 37.1-37.2' 0°, B, T, No, No, PI, SR @ 37.3'		
									39		541		0°, B, T, No, No, PI, SR @ 38.3' 0°, B, T, No, No, PI, SR @ 38.5' 0°, B, T, No, No, PI, SR @ 38.7' 90°, J, T, No, No, PI, SR @ 39.0-39.7'		
									40		540		82°, J, T, No, No, PI, SR @ 39.8-40.1'		
									41		539		0°, B, T, No, No, PI, SR @ 40.3' 35°, J, T, No, No, PI, SR @ 40.3-40.5' 90°, J, T, No, No, PI, SR @ 40.3-42.1'		
PQ	2	5.0	5.0	39.0	3.0	100	60		42		538		90°, J, T, No, No, PI, SR @ 41.8-42.8'		
									43		537				
									44		536		0°, B, T, No, No, PI, SR @ 42.9', 43.1', 43.2', 43.7'		
									45		536		10°, J, VN, No, No, PI, SR @ 44.4' grades 10% vugs @ 44.5'	Core box #2 starts @ 43.7'. Short run. Core stuck in barrel.	

**BLACK & VEATCH****BORING LOG**

BORING NO. P-385D

SHEET 4 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6201.7' E 4390.0'										GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)										TOTAL DEPTH 102.5 (feet)													
SURFACE CONDITIONS Gravel parking lot near a field										COORDINATE SYSTEM										DATE START 05/07/07										DATE FINISHED 05/09/07													
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
PQ		3		3.6		3.6		2.9		100		81		45				535				grades 0% vugs @ 44.9' 22°, J, VN, UK, Pa, PI, S @ 45.0', 45.1 65°, J, No, No, PI, SR @ 45.2-45.9'																					
														46				534				70°, J, T, No, No, PI, SR @ 46.7-47.8'																					
														47				533																									
PQ		4		1.4		47.6		1.3		100		93		48				532				50°, J, T, No, No, PI, SR @ 47.6-47.9' 75°, J, T, No, No, WA, SR @ 47.8-49.8' grades dark gray and gray alternating bands @ 47.9'																					
						49.0								49				531																									
														50				530				grading to 5% vugs @ 49.5' 60°, J, UK, Pa, WA, SR @ 49.5-50.1' 90°, J, T, No, No, PI, R @ 50.1-51.2' fracture zone @ 50.1'-51.3'																					
PQ		5		5.0		4.3		2.0		86		40		51				529																									
														52				528				grades 0% vugs @ 52.1' 80°, J, T, No, No, PI, SR @ 52.5-52.9'																					
														53				527				grades 15% vugs @ 52.9'																					
						54.0								54				526				grades gray, 0% vugs @ 54.2'																					
														55				525				0°, J, VN, No, No, St, SR @ 54.8' 20°, J, T, No, No, PI, R @ 55.2' 90°, J, T, No, No, PI, SR @ 55.4-56.5'																					
PQ		6		5.0		5.0		3.6		100		72		56				524				fractured and broken rock @ 56.5-58.0'																					
														57				523																									
														58				522				grades 15% vugs @ 58.0'																					
														59				521				20°, J, T, No, No, PI, R @ 58.7' 90°, J, VN, Ca, Pa, PI, R @ 59.2-60.4'																					
						59.0								60																													

Core box #3  
starts @ 57.0'.



**BLACK & VEATCH**

# BORING LOG

BORING NO. P-385D

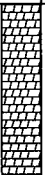
SHEET 5 OF 7

CLIENT		PROJECT		PROJECT NO.						
Detroit Edison		Fermi 3 COL Application		147483						
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)						
Monroe, Michigan		N 6201.7' E 4390.0'		580.1 ft (NAVD 88)						
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START						
Gravel parking lot near a field				05/07/07						
SAMPLING		LOGGED BY		APPROVED BY						
		Ohlmacher		Meyer						
CORING		CHECKED BY		DATE FINISHED						
		Dogbey/Ohlmacher		05/09/07						
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES						
2ND 6 INCHES		3RD 6 INCHES		N VALUE						
SAMPLE RECOVERY										
CORE SIZE		RUN NUMBER		RUN LENGTH						
RUN RECOVERY		RQD		PERCENT RECOVERY						
RQD										
DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)						
GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS						
PQ	7	5.0	4.8	4.3	96	86	60	520	thin SHALE bed; dolomitic; black; slightly weathered; very weak; low hardness; @ 60.4-60.7'	
							61	519	DOLOMITE; oolitic; brownish gray; fine grained; moderately weathered; strong; moderately hard; parting; (Bass Islands Group). 0°,J,T,No,No,PI,S @ 61.5'	
							62	518		
							63	517		
							64	516	DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banding; (Bass Islands Group). 85°,J,T,No,No,PI,SR @ 64.2-64.8'	
PQ	8	5.0	4.9	2.9	98	58	65	515	grades w/shale partings @ 66.0' fractured zone @ 66.1-66.5' 60°,J,T,No,No,PI,SR @ 66.6-67.2'	
							66	514		
							67	513		
							68	512	shale band; black @ 68.5-68.7'	
							69	511		
PQ	9	5.0	5.0	1.8	100	36	70	510	0°,B,VN,No,No,PI,SR @ 69.8', 69.9' fractured zone @ 70.1-70.2' 45°,J,VN,No,No,St,SR @ 70.3-70.6'	
							71	509	highly fractured, closely spaced, some vertical joints @ 71.0-73.6'	
							72	508		
							73	507		
							74	506	grades 10% vugs partially filled w/calcite @ 73.5'	
							75	505	grades highly fractured, healed, @ 74.7-76.7'	

**BLACK & VEATCH****BORING LOG**

BORING NO. P-385D

SHEET 6 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6201.7' E 4390.0'										GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)										TOTAL DEPTH 102.5 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot near a field										COORDINATE SYSTEM										DATE START 05/07/07										DATE FINISHED 05/09/07																																																																															
SAMPLING										LOGGED BY Ohlmacher <i>GC</i>										CHECKED BY Dogbey/Ohlmacher <i>GC</i>										APPROVED BY Meyer <i>EM</i>																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																							
PQ										10										5.0										5.0										3.8										100										76										75										505										 <p>25°, J, VN, No, No, Ir, R @ 75.9-76.0', 77.5' highly fractured, open @ 76.1-76.3' grades brownish gray, w/no fill in vugs @ 76.4'</p> <p>grades highly fractured, healed @ 77.5'</p>										Core box #6 starts @ 82.2'.									
PQ										11										5.0										5.0										3.2										100										64										79										501																													
PQ										12										5.0										4.8										2.8										96										56										84										496																													
PQ										12										5.0										4.8										2.8										96										56										85										495																													
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PQ										12										5.0										4.8										2.8										96										56										98										482																													
PQ										12										5.0										4.8										2.8										96										56										99										481																													
PQ										12										5.0										4.8										2.8										96										56										100										480																													

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**BLACK & VEATCH****BORING LOG**

BORING NO. P-385D

SHEET 7 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, Michigan				COORDINATES N 6201.7' E 4390.0'				GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)				TOTAL DEPTH 102.5 (feet)	
SURFACE CONDITIONS Gravel parking lot near a field						COORDINATE SYSTEM		DATE START 05/07/07		DATE FINISHED 05/09/07			
SAMPLING						LOGGED BY GCO Ohlmacher		CHECKED BY FMB Dogbey/Ohlmacher		APPROVED BY EM Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	13	5.0	5.0	3.1	100	62	90		490		0°, J, VN, No, No, WA, SR @ 89.4' highly fractured, open @ 89.9-91.0'	Core box #7 starts @ 92.4'.	
							91		489		20°, J, T, No, No, PI, SR @ 91.5' highly fractured, open @ 91.6-91.8'		
							92		488		highly fractured, open @ 92.3-92.6' grades gray, no vugs @ 92.3'		
							93		487				
							94		486				
							95		485		closely spaced joints @ 94.6-95.7' 70°, J, T, No, No, PI, SR @ 94.8-95.6'		
PQ	14	5.0	5.0	3.3	100	66	96		484		0°, J, VN, No, No, PI, SR @ 96.2', 97.9', 98.2'		
							97		483				
							98		482				
							99		481		DOLOMITE; argillaceous; gray; very fine grained; slightly weathered; strong; moderately hard; banding; w/shale partings; (Bass Islands Group). 10°, B, VN, No, No, PI, SR @ 99.4'		
PQ	15	3.5	3.5	1.8	100	51	100		480		highly fractured, open @ 100.4-100.9' 80°, J, T, No, No, PI, SR @ 100.5-101.0', 102.2-102.5' (2 joints) 90°, J, T, No, No, PI, SR @ 100.9-101.6'	Core box #8 starts @ 102.1'.	
							101		479				
							102		478		25°, J, T, No, No, PI, SR @ 102.0-102.2'		
							103		477				
							104		476			Bottom of boring @ 102.5'. Water level @ 14.5' @ completion of drilling. Piezometer installed on 05/31/07.	
							105		475				



# BLACK & VEATCH

# BORING LOG

BORING NO. P-385S

SHEET 1 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6198.1' E 4385.6'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 17.0 (feet)																																																																																									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 05/18/07										DATE FINISHED 05/18/07																																																																																									
SAMPLING										LOGGED BY Deeken <i>JD</i>										CHECKED BY <i>EM</i> Dogbey/Ohlmacher										APPROVED BY <i>EM</i> Meyer																																																																																									
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SPT										1										4										7										6										13										0.3										0										580																				<p>Well graded GRAVEL with Sand (GW) - About 70% fine to coarse, angular gravel w/max size 1"; fractured w/1 hammer blow; about 25% fine to coarse, angular sand; about 5% fines; gray; medium dense; moist; strong reaction w/HCl; (Fill).</p> <p>grades wet @ 10.0'</p>										<p>Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.</p>									
SPT										2										18										5										2										7										0.5										1										579																																							
SPT										3										1										2										3										5										0.0										2										578																																							
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SPT										13										11										13										0.0										12										568																																																											
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SPT										15										13										15										0.0										14										566																																																											
SPT										16										14										16										0.0										15										565																																																											

**BLACK & VEATCH****BORING LOG**

BORING NO. P-385S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																															
PROJECT LOCATION Monroe, Michigan										COORDINATES N 6198.1'										GROUND ELEVATION (DATUM) E 4385.6' 580.2 ft (NAVD 88)										TOTAL DEPTH 17.0 (feet)																																																																																					
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 05/18/07										DATE FINISHED 05/18/07																																																																																					
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																													
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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. P-389S

SHEET 1 OF 2

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, Michigan				COORDINATES N 7821.4' E 3889.3'				GROUND ELEVATION (DATUM) 576.9 ft (NAVD 88)			
SURFACE CONDITIONS West side of Doxy Rd near intersection of Tower Rd				COORDINATE SYSTEM Plant				DATE START 05/15/07		DATE FINISHED 05/15/07	
LOGGED BY <i>[Signature]</i> Duncan				CHECKED BY <i>[Signature]</i> Dogbey/Meyer				APPROVED BY <i>[Signature]</i> Meyer			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	11	17	10	27	0.7		0		576		Sandy SILT (ML) - About 60% low plasticity to non-plastic, low toughness, low dry strength fines; about 40% fine to coarse, subangular & angular sand; hard; (Fill).	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers w/center bit. SPT performed w/BK-81 automatic hammer.
SPT	2	9	12	13	25	0.8		1		575		Well graded GRAVEL with Sand (GW) - About 60% fine to coarse, angular, hard gravel w/max. size 1"; about 40% fine to coarse, angular & subangular sand; medium dense; (Fill).	
SPT	3	7	12	8	20	0.6		2		574		Sandy SILT with Gravel (ML) - About 60% low plasticity, low toughness fines; about 20-40% fine to coarse, angular & subangular sand; 10-20% gravel; light brown; hard; moist; lensed; (Fill).	
SPT	4	4	4	3	7	1.0		3		573		grades firm	
SPT	5	2	3	5	8	1.4		4		572		Lean CLAY with Sand (CL) - About 85% low to medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse sand; grayish brown; firm; moist; lensed; (Fill).	
SPT	6	3	4	4	8	1.1		5		571		Lean CLAY (CL) - About 100% high plasticity, low toughness, no dilatancy fines; black; soft; moist; homogeneous; peat (organics).	
SPT	7							6		570		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; w/trace sand; reddish brown & gray; firm; moist; lensed.	
TW	8							7		569			
SPT	9							8		568			
SPT	10							9		567			
								10		566		grades hard; dry to moist @ 11.0'	
SPT	11							11		565			
SPT	12							12		564		Sandy Lean CLAY (CL) - About 70% low plasticity, medium to high toughness, no dilatancy fines; about 30% fine sand; w/trace gravel; strong; brown; very hard; homogeneous; moist.	
SPT	13							13		563			
SPT	14							14		562		grades hard	

**BLACK & VEATCH****BORING LOG**

BORING NO. P-389S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																											
PROJECT LOCATION Monroe, Michigan										COORDINATES N 7821.4' E 3889.3'										GROUND ELEVATION (DATUM) 576.9 ft (NAVD 88)										TOTAL DEPTH 17.0 (feet)																																																	
SURFACE CONDITIONS West side of Doxy Rd near intersection of Tower Rd										COORDINATE SYSTEM Plant										DATE START 05/15/07										DATE FINISHED 05/15/07																																																	
SAMPLING										LOGGED BY <i>[Signature]</i> Duncan										CHECKED BY <i>[Signature]</i> Dogbey/Meyer										APPROVED BY <i>[Signature]</i> Meyer																																																	
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**BLACK & VEATCH****BORING LOG**

BORING NO. P-392S

SHEET 1 OF 2

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, Michigan				COORDINATES N 8088.7'		GROUND ELEVATION (DATUM) E 5841.5'		580.6 ft (NAVD 88)		TOTAL DEPTH 18.0 (feet)	
SURFACE CONDITIONS Level, gravel surface, SE of S Cooling Tower						COORDINATE SYSTEM Plant		DATE START 05/29/07		DATE FINISHED 05/29/07	
LOGGED BY Duncan						CHECKED BY Dogbey/Meyer		APPROVED BY Meyer			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	2	4	3	7	0.5						Undifferentiated Rock Fill	Boring advanced w/vacuum excavation.
SPT	2	3	3	4	7	0.5							
SPT	3	11	11	13	24	0.8							
SPT	4	6	6	8	14	0.9							
SPT	5	7	7	10	17	NR							

DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
0		580			
1		579			
2		578			
3		577			
4		576			
5		575			
6		574			
7		573			
8		572			
9		571			
10		570			
11		569			
12		568			
13		567			
14		566			
15					

DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
8.0				Poorly graded <u>GRAVEL</u> (GP) - About 100% fine to coarse, angular, flat to elongated, hard gravel w/max. size 1 1/4"; pinkish gray; loose; strong reaction w/HCl; homogeneous; (Fill).	Below 8.0' continued w/4 1/4" ID, 8" OD hollow stem augers w/ tricone center bit. SPT performed w/BK-81 automatic hammer.
11.0				Poorly graded <u>SAND</u> with Gravel (SP) - About 80% fine to coarse, angular & subangular, hard sand; about 20% fine to coarse, angular, flat & elongated, hard gravel w/max. size 1"; pinkish gray; medium dense; strong reaction w/HCl; homogeneous	



**BLACK & VEATCH****BORING LOG**

BORING NO. P-392S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																					
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**BLACK & VEATCH****BORING LOG**

BORING NO. P-396S

SHEET 1 OF 2

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 8949.8'		GROUND ELEVATION (DATUM) E 5248.8'		578.4 ft (NAVD 88)		TOTAL DEPTH 19.5 (feet)		
SURFACE CONDITIONS Level, grass & gravel surface, E of Cooling Towers						COORDINATE SYSTEM Plant		DATE START 05/23/07		DATE FINISHED 05/24/07		
SAMPLING						LOGGED BY <i>[Signature]</i> Duncan		CHECKED BY <i>[Signature]</i> Meyer		APPROVED BY <i>[Signature]</i> Meyer		
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							6		572			
							7		571			
							8		570			
							9		569			
							10		568			
							11		567			
							12		566			
							13		565			
							14		564			
							15					

5/20/2008 6:03 PM DTE-Fermi 3

12.0

Fat CLAY (CH) - About 100% medium to high plasticity, low toughness, no dilatancy, high dry strength fines; dark greenish gray; mottled w/trace brown; firm; moist; slight odor; no reaction w/HCl; lensed.

SPT performed w/BK-81 automatic hammer.

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BORING NO. P-397S

SHEET 1 OF 2

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7/14/2008 12:05 PM DTE-Fermi 3

Drill reaction changed @ 12.5'



BLACK &amp; VEATCH

## BORING LOG

BORING NO. P-397S

SHEET 2 OF 2

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														25		551																																													
														26		550																																													
														27		549																																													
														28		548																																													
														29		547																																													
														30		546																																													

Sandy Lean CLAY (CL) - About 70% low plasticity, high toughness, slow to no dilatancy, medium to high dry strength fines; about 30% coarse, rounded to subrounded, hard sand; dark gray; very hard; dry to moist; strong reaction w/HCl; homogeneous; (Glacial Till).

Bottom of boring @ 21.5'. Water level not recorded. Piezometer installed on 05/23/07.

**BLACK & VEATCH****BORING LOG**

BORING NO. P-398D

SHEET 1 OF 7

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483		
PROJECT LOCATION Monroe, Michigan					COORDINATES N 9510.6'		GROUND ELEVATION (DATUM) E 5352.1' 577.9 ft (NAVD 88)		TOTAL DEPTH 101.0 (feet)			
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower					COORDINATE SYSTEM Plant		DATE START 05/15/07		DATE FINISHED 05/17/07			
SAMPLING					LOGGED BY Grainger/Duncan		CHECKED BY Meyer		APPROVED BY Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
S	1		5.0			5.0	0		577		Silty GRAVEL with Sand (GM) - About 60% coarse, angular, hard gravel w/max size 3"; about 20% fine to coarse, angular sand; about 15% no plasticity, low toughness, no dilatancy, low dry strength fines; about 5% cobbles; yellowish brown; moist; strong reaction w/ HCl; homogeneous; (Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
						1		576				
						2		575				
						3		574				
						4		573				
S	2		5.0			4.5	5		572		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 10% coarse, subrounded sand; w/trace rounded cobbles; yellowish brown; firm; moist; homogeneous; (Fill).	
						6		571				
						7		570				
						8		569				
						9		568				
S	3		10.0			5.0	10		567		ORGANIC Soil (OL/OH) - About 95% medium plasticity, medium toughness, slow dilatancy, low dry strength fines; about 5% peat; dark gray; soft; moist; earthy odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
						11		566				
						12		565				
						13		564				
						14		563				

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, Michigan					N 9510.6'					E 5352.1'					577.9 ft (NAVD 88)					101.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Level, grassy covered; North of North Cooling Tower										Plant					05/15/07					05/17/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
Grainger/Duncan										Meyer					Meyer					Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																							
S	4		15.0			5.0	15		562		Sandy Lean CLAY with Gravel (CL) - About 70% medium plasticity, medium toughness, slow dilatancy, very high dry strength fines; about 15% fine to coarse, angular to rounded, hard sand; about 15% fine to coarse, angular to rounded, hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).																		
							16		561																				
							17		560																				
							18		559																				
							19		558																				
S	5		20.0			5.0	20		557																				
							21		556																				
							22		555																				
							23		554																				
							24		553																				
S	6		25.0			4.5	25		552		DOLOMITE; light olive gray; blocky; very fine grained; slightly weathered; very strong; hard; pitted; (Bass Islands Group).																		
							26		551																				
							27		550																				
							28		549																				
							29		548																				
			29.5				30		548		0°, J, T, No, No, PI, SR @ 29.5', 29.8'																		

Below 26.5' water circulated w/ sonic drilling to prevent fines caking on samples. 50% drilling fluid loss @ 27.0'.

Set nominal 6" temporary steel casing to 29.5'.

**BLACK & VEATCH****BORING LOG**

BORING NO. P-398D

SHEET 3 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9510.6' E 5352.1'										GROUND ELEVATION (DATUM) 577.9 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/15/07										DATE FINISHED 05/17/07									
SAMPLING										LOGGED BY <i>Geo. P. Grainger/Duncan</i>										CHECKED BY <i>Meyer</i>										APPROVED BY <i>Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
PQ	1	1.5	1.4	1.4	93	93	30														Below 29.5' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Core box #1 starts @ 29.5'.																		
			31.0				31		547																														
							32		546																														
PQ	2	5.0	5.0	4.8	100	96	33		545																														
							34		544																														
							35		543																														
			36.0				36		542																														
PQ	3	5.0	4.7	3.8	94	76	37		541																														
							38		540																														
							39		539																														
							40		538																														
			41.0				41		537																														
							42		536																														
PQ	4	5.0	4.9	4.6	98	92	43		535																														
							44		534																														
							45		533																														



**BLACK & VEATCH****BORING LOG**

BORING NO. P-398D

SHEET 4 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9510.6' E 5352.1' 577.9 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)																							
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/15/07										DATE FINISHED 05/17/07													
SAMPLING										LOGGED BY <i>Granger/Duncan</i>										CHECKED BY <i>Meyer</i>										APPROVED BY <i>Meyer</i>													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
PQ		5		5.0		5.0		3.5		100		70		45								<p>SHALE; gray; blocky; strong; very hard; (Salina Group - Unit F). highly weathered band @ 45.5'-45.7'</p> <p>60° J,T,No,No,Ir,R, intersecting 0°, J,T,No,No,Ir,R @ 46.7' 0°, J,T,No,No,Ir,R @ 47.0' 0°, J,N,No,No,PI,SR, moderately weathered parting @ 47.2' 0 &amp; 60° intersecting J,T,No,Su,Ir,R, slightly weathered @ 47.4-47.8' 0°, 50° &amp; 90° intersecting J,T,No,No,Ir,R @ 47.8-49.5'</p> <p>30°, J,VN,No,Su,Ir,SR, slight weathering @ 50.0' 0 &amp; 60°, J,VN,No,Su,Ir,SR, numerous, slightly weathered @ 50.0-56.6'</p> <p>0 &amp; 60°, J,VN,No,Su,Ir,SR, slightly weathered @ 51.2-51.6' 0, 30 &amp; 80°, J,VN,No,Su,Ir,SR, slightly weathered @ 51.6-52.0' highly weathered to residual, thin bedded, max. size 1½" @ 52.5-53.0'</p> <p>0° &amp; other angle, J,N,No,No,Ir,SR numerous, moderately weathered @ 53.3-53.6'</p> <p>DOLOMITE; slightly to moderately weathered, fractured &amp; stained; (Salina Group - Unit F).</p> <p>SHALE; gray; blocky; strong; very hard; (Salina Group - Unit F). highly weathered to residual; fractured @ 54.9-56.0'</p> <p>80°, J,T,No,No,Ir,R @ 56.5-57.1' 30°, J,T,No,No,Ir,R @ 56.5' 0°, J,VN,No,Su,PI,R, slightly weathered @ 57.1' 60°, J,T,No,No,Ir,R @ 57.2-57.5' fractured; slightly to completely weathered @ 57.6-58.8'</p> <p>SHALE; dolomitic; gray; highly weathered to residual; very weak; low hardness to friable; (Salina Group - Unit F)</p>																				Core box #3 starts @ 47.6'.	
PQ		6		5.0		4.4		2.3		88		46		46																													
PQ		7		5.0		3.8		2.4		76		48		51																												Core box #4 starts @ 56.0'.	



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. P-398D

SHEET 5 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																								
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9510.6' E 5352.1'										GROUND ELEVATION (DATUM) 577.9 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)														
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower															COORDINATE SYSTEM Plant										DATE START 05/15/07										DATE FINISHED 05/17/07									
SAMPLING															LOGGED BY <i>Grainger/Duncan</i>										CHECKED BY <i>Meyer</i>										APPROVED BY <i>Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS															REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS															REMARKS																		
PQ	8	5.0	3.7	1.0	74	20	60		517		grades w/trace pits & vugs @ 61.0'																																	
							61		516																																			
							62		515																																			
							63		514																																			
							64		513																																			
							65		512		2" dolomite band @ 66.9-67.1'															Core box #5 starts @ 66.0'.																		
PQ	9	5.0	3.5	1.3	70	26	66		511																																			
							67		510																																			
							68		509																																			
							69		508																																			
							70		507																																			
							71		506																																			
							72		505																																			
PQ	10	5.0	4.0	3.2	80	64	73		504																																			
							74		503																																			
							75																																					



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. P-398D

SHEET 6 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9510.6' E 5352.1'										GROUND ELEVATION (DATUM) 577.9 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/15/07										DATE FINISHED 05/17/07									
SAMPLING										LOGGED BY <i>Granger/Duncan</i>										CHECKED BY <i>Meyer</i>										APPROVED BY <i>Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
PQ	11	5.0	3.7	2.8	74	56	75		502																														
			76.0				76		501																														
							77		500																														
							78		499																														
							79		498																														
							80		497																														
PQ	12	5.0	5.0	4.1	100	82	81		496		SHALE; dolomitic; gray; blocky; micritic; fresh; very strong; hard; highly fractured; w/bands that are highly weathered to completely weathered & infilled w/clay & dolomitic shale fragments; occasional vuggy & pitty beds of dolomitic shale; (Salina Group - Unit F).																												
			81.0				82		495																														
							83		494																														
							84		493																														
							85		492																														
			86.0				86		491		grades w/residual shale beds @ 86.0'										Water level @ 24.8' prior to drilling on 05/17/07.																		
							87		490																														
							88		489																														
PQ	13	5.0	2.9	0.0	58	0	89		488																														
							90																																

**BLACK & VEATCH****BORING LOG**

BORING NO. P-398D

SHEET 7 OF 7

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9510.6'										GROUND ELEVATION (DATUM) E 5352.1' 577.9 ft (NAVD 88)										TOTAL DEPTH 101.0 (feet)									
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/15/07										DATE FINISHED 05/17/07									
SAMPLING										LOGGED BY <i>[Signature]</i> Grainger/Duncan										CHECKED BY <i>[Signature]</i> Meyer										APPROVED BY <i>[Signature]</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
PQ	14	5.0	3.8	0.4	76	8	90		487												Core box #7 starts @ 91.0'.																		
			91.0				91		486																														
							92		485																														
							93		484																														
							94		483																														
							95		482																														
			96.0				96		481												1.7' core loss due to wash out.																		
							97		480																														
PQ	15	5.0	3.3	2.2	66	44	98		479		BRECCIA; dark greenish gray; vuggy; very fine grained; moderately weathered; very strong; hard; pits & vugs; slightly fossiliferous; healed w/calcite; strong reaction w/HCl; very rough surfaces; (Salina Group - Unit F).																												
							99		478		3" fractured zone; moderately weathered w/staining @ 99.4-99.8'																												
							100		477																														
							101		476												Bottom of boring @ 101.0'. Water level @ 24.8' @ completion of drilling. Piezometer installed on 06/02/07.																		
							102		475																														
							103		474																														
							104		473																														
							105																																

# BLACK & VEATCH

# BORING LOG

BORING NO. P-398S

**SHEET 1 OF 2**

CLIENT						PROJECT							PROJECT NO.		
Detroit Edison						Fermi 3 COL Application							147483		
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, Michigan				N 9504.3'				E 5350.4'				578.0 ft (NAVD 88)			
SURFACE CONDITIONS								COORDINATE SYSTEM				DATE START		DATE FINISHED	
Level, grass cover, North of North Cooling Tower								Plant				05/23/07		05/23/07	
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Duncan				Meyer EM				Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET	6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS			REMARKS
								0		578		Undifferentiated Overburden; (Refer to Log P-398D)			Boring advanced w/4½" ID, 8" OD hollow stem augers w/tricone bit as center plug. SPT performed w/BK-81 automatic hammer.
								1		577					
								2		576					
								3		575					
								4		574					
								5		573					
SPT	1	2	3	3	6	0.9		6		572		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 10% coarse, subrounded, hard sand; trace rounded, moderately hard cobbles; yellowish brown; firm; moist; strong reaction w/HCl; homogeneous; (Fill). about 30% sand @ 5.0-5.5'			
								7		571					
								8		570					
								9		569					
								10		568					
SPT	2	2	2	4	6	1.3		11		567		ORGANIC Soil (OL/OH) - About 95% medium plasticity, medium toughness, slow dilatancy, low dry strength fines; about 5% peat; dark gray; firm; moist; no reaction w/HCl; homogeneous			
								12		566					
								13		565					
TW	3					1.6		14		564		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 5% coarse, rounded to subrounded, hard sand; light olive gray, mottled with yellowish brown; firm; moist; homogeneous; (Glacial Till).			
								15		563					

**BLACK & VEATCH****BORING LOG**

BORING NO. P-398S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																								
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9504.3' E 5350.4'										GROUND ELEVATION (DATUM) 578.0 ft (NAVD 88)										TOTAL DEPTH 18.0 (feet)																																														
SURFACE CONDITIONS Level, grass cover, North of North Cooling Tower										COORDINATE SYSTEM Plant										DATE START 05/23/07										DATE FINISHED 05/23/07																																														
SAMPLING										LOGGED BY <i>[Signature]</i> Duncan										CHECKED BY Meyer <i>EM</i>										APPROVED BY Meyer <i>EM</i>																																														
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																						
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	CORING																																																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																						
SPT 4 3 6 7 13 1.4										15 563																																								TV = 1.5 TSF @ 15.0'.																										
										16 562																																																																		
										17 561																																																																		
										18 560																																																																		
										19 559																																																																		
										20 558																																																																		
										21 557																																																																		
										22 556																																																																		
										23 555																																																																		
										24 554																																																																		
										25 553																																																																		
										26 552																																																																		
										27 551																																																																		
										28 550																																																																		
										29 549																																																																		
										30 548																																																																		

Bottom of boring @ 18.0'. Water level not recorded. Piezometer installed on 05/23/07.

**BLACK & VEATCH****BORING LOG****BORING NO. P-399D****SHEET 1 OF 8**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																			
PROJECT LOCATION Monroe, Michigan										COORDINATES N 2565.6' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)										TOTAL DEPTH 104.0 (feet)																																																																																																									
SURFACE CONDITIONS Flat road surface adjacent to wetland										COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/06/07																																																																																																									
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																															
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																																	
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Drilled 2'; gravel inside hollow stem.</td> </tr> <tr> <td>1</td><td></td><td>573</td><td></td><td></td><td></td> </tr> <tr> <td>2</td><td></td><td>572</td><td></td><td>ORGANIC Soil (OH) - About 100% high plasticity, high toughness, no dilatancy fines; very dark grayish brown; soft; moist; organic odor; no reaction w/HCl; homogeneous w/organics; (Topsoil).</td><td>Installed center bit, redrilled to 2'. SPT performed w/D-50 automatic hammer.</td> </tr> <tr> <td>3</td><td>SPT 1</td><td>571</td><td>1.1</td><td>Lean CLAY (CL) - About 95% low plasticity, medium toughness, no dilatancy fines; about 5% coarse, subrounded, hard sand; grayish brown; firm; moist; no reaction w/HCl; homogeneous; w/trace roots; (Lacustrine Deposit).</td><td></td> </tr> <tr> <td>4</td><td></td><td>570</td><td></td><td>grades w/trace gravel, max. size 1 1/2" @ 5'</td><td></td> </tr> <tr> <td>5</td><td>SPT 2</td><td>569</td><td>1.2</td><td></td><td></td> </tr> <tr> <td>6</td><td></td><td>568</td><td></td><td></td><td>PP=2.0 TSF</td> </tr> <tr> <td>7</td><td>SPT 3</td><td>567</td><td>1.7</td><td>Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, slow dilatancy fines; about 30% fine to coarse, angular to subrounded, hard (fractured w/2 hammer blows) sand; red to reddish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</td><td></td> </tr> <tr> <td>8</td><td></td><td>566</td><td></td><td></td><td></td> </tr> <tr> <td>9</td><td>SPT 4</td><td>565</td><td>1.8</td><td>Sandy SILT (ML) - About 70% low plasticity, low toughness, rapid dilatancy fines; about 30% fine to coarse, angular to subrounded sand; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</td><td>PP&gt;4.5 TSF</td> </tr> <tr> <td>10</td><td></td><td>564</td><td></td><td></td><td></td> </tr> <tr> <td>11</td><td>SPT 5</td><td>563</td><td>1.4</td><td>Sandy SILT (ML) - About 60% low plasticity, low toughness, rapid dilatancy fines; about 30% fine to coarse, subangular to subrounded sand; about 10% fine, subangular to subrounded, soft to hard gravel, max. size 1/2"; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</td><td></td> </tr> <tr> <td>12</td><td></td><td>562</td><td></td><td>grades very hard @ 11.5'</td><td></td> </tr> <tr> <td>13</td><td>SPT 6</td><td>561</td><td>1.3</td><td>grades hard; gravel, max. size 1" @ 13'</td><td></td> </tr> <tr> <td>14</td><td></td><td>560</td><td></td><td>grades gray @ 14'</td><td>PP&gt;4.5 TSF</td> </tr> <tr> <td>15</td><td>SPT 7</td><td></td><td>0.8</td><td></td><td></td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	0		574		Undifferentiated overburden (see log for P-399P)	Boring advanced w/4 1/4" ID, 8" OD hollow stem auger without center bit. Drilled 2'; gravel inside hollow stem.	1		573				2		572		ORGANIC Soil (OH) - About 100% high plasticity, high toughness, no dilatancy fines; very dark grayish brown; soft; moist; organic odor; no reaction w/HCl; homogeneous w/organics; (Topsoil).	Installed center bit, redrilled to 2'. SPT performed w/D-50 automatic hammer.	3	SPT 1	571	1.1	Lean CLAY (CL) - About 95% low plasticity, medium toughness, no dilatancy fines; about 5% coarse, subrounded, hard sand; grayish brown; firm; moist; no reaction w/HCl; homogeneous; w/trace roots; (Lacustrine Deposit).		4		570		grades w/trace gravel, max. size 1 1/2" @ 5'		5	SPT 2	569	1.2			6		568			PP=2.0 TSF	7	SPT 3	567	1.7	Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, slow dilatancy fines; about 30% fine to coarse, angular to subrounded, hard (fractured w/2 hammer blows) sand; red to reddish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).		8		566				9	SPT 4	565	1.8	Sandy SILT (ML) - About 70% low plasticity, low toughness, rapid dilatancy fines; about 30% fine to coarse, angular to subrounded sand; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP>4.5 TSF	10		564				11	SPT 5	563	1.4	Sandy SILT (ML) - About 60% low plasticity, low toughness, rapid dilatancy fines; about 30% fine to coarse, subangular to subrounded sand; about 10% fine, subangular to subrounded, soft to hard gravel, max. size 1/2"; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).		12		562		grades very hard @ 11.5'		13	SPT 6	561	1.3	grades hard; gravel, max. size 1" @ 13'		14		560		grades gray @ 14'	PP>4.5 TSF	15	SPT 7		0.8		
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**BLACK & VEATCH****BORING LOG**

BORING NO. P-399D

SHEET 2 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 2565.6' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)										TOTAL DEPTH 104.0 (feet)																																																																															
SURFACE CONDITIONS Flat road surface adjacent to wetland										COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/06/07																																																																															
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SPT										9										6										14										27										41										1.4										16										559																													
SPT										10										2										8										27										35										1.2										17										558										grades w/sand lenses, 0.4' spacing, up to 1" thick @ 17.0'																			
SPT										11										6										10										17										27										1.3										18										557																													
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SPT										16										50/4										-										50+										NR										23										552																																							
																				26.8																																								24										551																																							
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																																																												27										548										@ 26.5' gravel inside hollow stem. Cleaned out w/4 1/4" tricone bit w/ water as drilling fluid. Auger refusal @ 26.8'. Set nominal 6" temporary steel casing to 28.5'.																													
																																																												28										547										DOLOMITE; gray; crystalline; very fine grained; slightly weathered; strong; hard; banded; close joint spacing; (Bass Islands Group). highly fractured @ 26.8-27.2', 27.9-28.5' 90°, J,T,No,No,Pl,SR @ 27.2-27.9' 0°, J,T,No,No,Pl,SR @ 27.6' 0°, B,No,No,Pl,S @ 28.6'																													
																																																												29										546																																							
																																																												30										545										20°, J,No,No,St,Slk @ 29.5' grades w/very close joint spacing @ 29.5-32.0'																													





## BLACK &amp; VEATCH

## BORING LOG

BORING NO. P-399D

SHEET 3 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, Michigan					COORDINATES N 2565.6'					GROUND ELEVATION (DATUM) E 5228.7'					TOTAL DEPTH 574.7 ft (NAVD 88) 104.0 (feet)						
SURFACE CONDITIONS Flat road surface adjacent to wetland										COORDINATE SYSTEM Plant					DATE START 05/03/07					DATE FINISHED 05/06/07	
SAMPLING										LOGGED BY Ohlmacher					CHECKED BY Dogbey/Ohlmacher					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
PQ	2	5.0	4.6	1.4	92	28	30		544		numerous vertical joints, healed-No,T,UK-No,Sp-No, PI,SR @ 29.5-32.0'					Below 26.8' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 26.8'.					
							31	543	0°,B,T,No,No,PI,SR @ 30.0-30.4'; 4 joints 15°,J,T,No,No,PI,S @ 30.5'												
							32	542	0°,B,T,No,No,PI,S @ 32.1' 90°,J,T,No,No,PI,SR @ 32.1-33.0'												
							33	541	5°,J,T,UK,Pa,PI,SR @ 33.1'												
							34	540	0°,B,T,No,No,PI,SR @ 33.5' 90°,J,T,No,No,PI,SR @ 33.6-34.0' fractured @ 34.0-34.3'												
			34.0				35	539	0°,B,T,No,No,PI,SR @ 34.3-34.5', 35.3-35.4' two bedding planes 15°,J,T,Ca,Pa,PI,SR @ 34.5-35.2' 0°,B,T,No,No,PI,SR @ 34.9'												
PQ	3	5.0	5.0	1.2	100	24	36	538	70°,J,N,No,No,Ir,VR @ 35.8' 0°,B,VN,No,No,PI,R @ 35.9' 90°,J,T,No,No,WA,R @ 36.1-36.3' 0°,B,T,No,No,PI,SR @ 36.3' 50°,J,T,No,No,PI,SR @ 36.5-36.9' grades w/5% vugs up to 1/2" @ 37.0'												
							37	537	0°,J,T,No,No,Ir,SR @ 37.0'												
							38	536	20°,J,T,No,No,PI,S @ 37.2-37.5' fractured @ 37.4-37.7'												
							39	535	fractured @ 39.4-39.7'												
							40	534	brecciated, healed fractures @ 39.7-40.1' grades brownish gray, thin bedded to massive @ 40' 60°,J,N,No,No,PI,SR @ 40.1-40.5'												
PQ	4	5.0	4.8	3.1	96	62	41	533	70°,J,N,Ci,Fi,PI,SR @ 40.6-41.5' 30°,J,VN,No,No,Ir,R @ 40.7'												
							42	532	10°,J,VN,No,No,Ir,R @ 41.6'												
							43	531	grades gray @ 42.6' 50°,J,W,Sd,Fi,PI,R @ 43.1-43.5'												
							44	530	fractured @ 44.0-44.6'												
			44.0				45	530	50°,J,VN,Ca,Fi,St,SR @ 44.6-44.8'												

**BLACK & VEATCH****BORING LOG**

BORING NO. P-399D

SHEET 4 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483											
PROJECT LOCATION Monroe, Michigan										COORDINATES N 2565.6' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)		TOTAL DEPTH 104.0 (feet)									
SURFACE CONDITIONS Flat road surface adjacent to wetland										COORDINATE SYSTEM Plant										DATE START 05/03/07		DATE FINISHED 05/06/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY Ohlmacher <i>GO</i>										CHECKED BY Dogbey/Ohlmacher <i>GO</i>		APPROVED BY Meyer <i>EM</i>									
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET) SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS	
PQ 5 5.0 4.9 3.4 98 68										45 529 46 528 47 527 48 526										fractured @ 45.1-45.4' 30°, J, VN, Ca, Sp, St, SR @ 45.1' 10°, J, T, No, No, St, SR @ 46.1' fractured @ 46.3-46.5' 75°, J, T, No, No, PI, SR @ 47.3-47.7' 10°, J, W, Sd, Pa, PI, R @ 48.4'										Core box #3 starts @ 46.3'.	
PQ 6 2.0 1.5 0.4 75 20										49 525 50 524 51 523										fractured, clayey sand infilling @ 49.0-49.7' 15°, J, PI @ 49.9' 0°, J, Ca, Sp, PI, SR @ 50.3' SHALE; dolomitic; dark gray; micritic; slightly weathered; strong; hard; closely spaced joints; (Salina Group Unit F).											
PQ 7 3.0 1.6 0.7 53 23										52 522 53 521 54 520										DOLOMITE; dark gray; very fine grained; slightly weathered; strong; hard; closely spaced joints; interbedded w/shale; (Salina Group Unit F). dolomitic gravel @ 52.0-52.2' 0°, J, W, Cl, Fi, PI, SR @ 52.5' 10°, J, No, No, PI, SR @ 52.8' 90°, J, Ca, Sp, PI, SR @ 54.0-54.5' fractured @ 54.2-54.4' 25°, J, No, No, PI, SR @ 54.5' 15°, J, T, No, No, PI, SR @ 54.8' grades brownish gray, 10% vugs @ 54.8' fractured @ 54.9-55.3' 10°, J, VN, No, No, PI, SR @ 55.1' 90°, J, T, No, No, PI, SR @ 55.1' fractured @ 55.8-56.5'											
PQ 8 5.0 4.8 0.5 96 10										56 519 57 518 58 517 59 516 60 515										fractured @ 55.8-56.5' 45°, J, T, No, No, St, R @ 56.5-56.7' 0°, B, T, Ca, Sp, PI, SR @ 56.8' fractured @ 56.9-57.4' 0°, V, W, Ca, Fi, Ir, R @ 57.5-57.7' DOLOMITE; brownish gray & gray; crystalline; very fine grained; slightly weathered; strong; hard; 20% vugs; (Salina Group Unit F). 90°, J, N, No, No, PI, SR @ 57.7-58.4'										Core box #4 starts @ 58.5'.	
										59 515										DOLOMITE; gray; crystalline; very fine grained; slightly weathered; strong; hard; massive; no vugs; (Salina Group Unit F).											

**BLACK & VEATCH****BORING LOG**

BORING NO. P-399D

SHEET 5 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																										
PROJECT LOCATION Monroe, Michigan										COORDINATES N 2565.6' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)										TOTAL DEPTH 104.0 (feet)																																																																
SURFACE CONDITIONS Flat road surface adjacent to wetland										COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/06/07																																																																
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																																																
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PQ 9 2.7 1.5 0.0 56 0										60																														0°, J, Cl, Sp, Pl, R @ 58.4'																																																						
										61										514																				closely spaced joints @ 58.4-59.0'																																																						
										62										513																				fractured @ 59.0-60.5'																																																						
PQ 10 2.1 2.1 0.7 100 29										63										512																				SHALE; w/calcite sand; moderately weathered; weak; friable; (Salina Group - Unit F).																																																						
										64										511																				DOLOMITE; brownish gray; vuggy; micritic; slightly weathered; strong; hard; banded; 10% vugs up to 1"; w/shale bands up to 1" thick; (Salina Group - Unit F). highly fractured @ 62.0-63.1'																																																						
										65										510																				0°, J, Pl, SR @ 63.5'																																																						
PQ 11 3.6 2.3 0.0 64 0										66										509																				fractured @ 63.8-66.6'																																																						
										67										508																				0°, B, T, No, No, Pl, SR @ 65.2'																																																						
										68										507																				90°, J, T, No, No, Pl, SR @ 65.2-65.8'																																																						
PQ 12 1.6 1.0 0.4 63 25										69										506																				SHALE; gray; fresh; very weak; friable; (Salina Group - Unit F).																																																						
										70										505																				DOLOMITE; brownish gray; vuggy; micritic; slightly weathered; strong; hard; banded; 10% vugs up to 1"; w/shale bands up to 1" thick; (Salina Group - Unit F). fractured @ 67.4-68.4'																																																						
										71										504																				0°, J, No, No, Pl, SR @ 68.4', 68.8'																																																						
PQ 13 5.0 2.4 0.0 48 0										72										503																				highly fractured, gravel @ 69.0-72.4'																																																						
										73										502																				grades 20% vugs @ 71.0'																																																						
										74										501																				grades no vugs @ 72.4'																																																						
										75										500																				0°, J, No, No, Pl, R @ 72.4'																																																						
																																								85°, J, VN, No, No, Pl, SR @ 72.4-72.9'																																																						
																																								fractured @ 72.9-73.1'																																																						
																																								90°, J, T, No, No, Pl, SR @ 73.1-73.6'																																																						
																																								80°, J, T, No, No, Pl, SR @ 73.1-73.6'																																																						
																																								fractured @ 73.6-73.8'																																																						
																																																		CLAYSTONE; gray; highly weathered; w/dolomite bands; some dolomite bands are brecciated (poorly																																												

**BLACK & VEATCH**

## BORING LOG

**BORING NO. P-399D**

SHEET 6 OF 8

CLIENT										PROJECT										PROJECT NO.																																																																																									
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																																																															
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																																																																															
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																																																																															
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																																	
CORE SIZE										RUN NUMBER										RUN LENGTH										RUN RECOVERY										RQD										PERCENT RECOVERY										VALUE										SAMPLE RECOVERY																																							
PQ										14										5.0										3.0										0.0										60										0										75										499										indurated to indurated) or highly fractured; (Salina Group - Unit F).										Core box #5 starts @ 75.6'.									
PQ										15										4.8										2.7										0.0										56										0										76										498																													
PQ										16										5.3										2.9										0.4										55										8										77										497																													
PQ										17										1.1										(a)																																								78										496																													
PQ										18										1.1										(a)																																								79										495																													
PQ										19										1.1										(a)																																								80										494																													
PQ										20										1.1										(a)																																								81										493																													
PQ										21										1.1										(a)																																								82										492																													
PQ										22										1.1										(a)																																								83										491										DOLOMITE; argillaceous; dark gray; very fine grained; highly weathered; very weak; friable; banded; (Salina Group - Unit F).										Core barrel jammed @ 83.8'.									
PQ										23										1.1										(a)																																								84										490																													
PQ										24										1.1										(a)																																								85										489										DOLOMITE; w/shale layers; highly weathered; 0.1'-0.2' dolomite fragments; (Salina Group - Unit F)																			
PQ										25										1.1										(a)																																								86										488																													
PQ										26										1.1										(a)																																								87										487																													
PQ										27										1.1										(a)																																								88										486										SHALE; gray; highly weathered to residual; weak; friable; banded; (Salina Group - Unit F).																			
PQ										28										1.1										(a)																																								89										485										SAND; gray; (Salina Group - Unit F).										(a) PQ 16 drilled to 89.0'. After barrel was pulled, 1.1' of core still in hole. PQ 17 used to recover lost core. Recovered core added to PQ 16. After									



BORING NO. P-399D

**SHEET 7 OF 8**

CLIENT				PROJECT				PROJECT NO.							
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
SURFACE CONDITIONS				COORDINATE SYSTEM				DATE START				DATE FINISHED			
SAMPLING				LOGGED BY				CHECKED BY				APPROVED BY			
CORING				DEPTH (FEET)				SAMPLE TYPE				ELEVATION (FEET)			
GRAPHIC LOG				CLASSIFICATION OF MATERIALS				REMARKS							
DETROIT EDISON				FERMI 3 COL APPLICATION				147483							
MONROE, MICHIGAN				N 2565.6' E 5228.7'				574.7 ft (NAVD 88)				104.0 (feet)			
FLAT ROAD SURFACE ADJACENT TO WETLAND				PLANT				05/03/07				05/06/07			
SAMPLING				LOGGED BY				CHECKED BY				APPROVED BY			
OHLMACHER				DOGBEY/OHLMACHER				MEYER							
CORE SIZE				RUN NUMBER				RUN LENGTH				RUN RECOVERY			
RQD				PERCENT RECOVERY				RQD				RQD			
PQ				18				5.0				4.5			
PQ				19				5.0				3.2			
PQ				20				5.0				3.1			
90				484				90.7				SHALE; gray; highly weathered to residual; weak; friable; banded; (Salina Group - Unit F).			
91				483											
92				482											
93				481											
94				480											
95				479											
96				478											
97				477											
98				476											
99				475											
100				474											
101				473											
102				472											
103				471											
104				470											
105				470											

**BLACK & VEATCH****BORING LOG**

BORING NO. P-399D

SHEET 8 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																										
PROJECT LOCATION Monroe, Michigan										COORDINATES N 2565.6' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)										TOTAL DEPTH 104.0 (feet)																																																																																																																																
SURFACE CONDITIONS Flat road surface adjacent to wetland										COORDINATE SYSTEM Plant										DATE START 05/03/07										DATE FINISHED 05/06/07																																																																																																																																
SAMPLING										LOGGED BY Ohlmacher <i>lee</i>										CHECKED BY Dogbey/Ohlmacher <i>GOO</i>										APPROVED BY Meyer <i>EM</i>																																																																																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																																																																																																																					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																																																								
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG																																																																																																																																																											
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																																																								
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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. P-399P

SHEET 1 OF 1

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 2569.1' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)										TOTAL DEPTH 7.0 (feet)																															
SURFACE CONDITIONS Edge of gravel road bed.										COORDINATE SYSTEM Plant										DATE START 05/01/07										DATE FINISHED 05/01/07																															
SAMPLING										LOGGED BY GCG for Grainger										CHECKED BY Meyer SM										APPROVED BY Meyer SM																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
GP		1										1.6		0		574						Poorly graded <u>GRAVEL</u> with Sand (GP) - About 50% fine to coarse, angular, hard gravel, w/max. size 2"; about 45% coarse, angular sand; about 5% silt; pinkish gray; moist; strong reaction w/HCl; homogeneous; (Fill).																				Boring advanced w/2 1/4" OD geoprobe continuous barrel sampler.																			
GP		2				3.0						0.0		1		573						ORGANIC Soil (OL) - About 95% low plasticity, low toughness, no dilatancy, no dry strength organic material; about 5% clay fines; reddish black; moist; no odor; no reaction w/HCL; homogeneous; (Peat).																				Water encountered @ 2.0'.																			
GP		3				4.0						1.1		2		572																																													
GP		4				4.5						0.7		3		571																																													
GP		4				6.0						0.7		4		570						Lean <u>CLAY</u> (CL) - About 90% medium plasticity, medium toughness, no dilatancy, medium dry strength fines; about 10% fine to medium, angular to rounded, hard sand; pinkish gray; moist; strong reaction w/HCl; laminated; (Lacustrine Deposit).																				PP = 0.5 TSF Collected water sample 6'-7'.																			
														5		569																																													
														6		568																																													
														7		567																																													
														8		566																																													
														9		565																																													
														10		564																																													
														11		563																																													
														12		562																																													
														13		561																																													
														14		560																																													
														15		559																																													

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C1

SHEET 1 OF 9

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6363.4' E 4451.9'				GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot near storage garage				COORDINATE SYSTEM Plant				DATE START 07/16/07				
								DATE FINISHED 09/21/07				
SAMPLING				LOGGED BY Mass/Ang/Grainger				CHECKED BY Dogbey/Bonnie TB				
								APPROVED BY Meyer SM				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							0				Well-graded GRAVEL with Sand (GW) - About 75% fine to coarse, angular to subangular, hard gravel w/ max. size 2"; about 25% fine to coarse, angular, hard sand; light olive brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1					
							2					
							3					
							4					
							5					
							6					
S	1		6.0				7					Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							8					
							9					
							10				grades light gray; moist; @ 10.0-12.0'	Discrete sample S01A collected @ 10.0-11.5'
S	2		10.0				11					Water level @ 9.5' on 07/24/07; boring @ 12.7'.
							12					
							13				Well-graded GRAVEL with Silt and Sand (GW-GM) - About 65% fine to coarse, angular to subangular, hard gravel w/max. size 2"; about 25% fine to coarse, angular, hard sand; about 10% low plasticity, low toughness, rapid dilatancy, low dry strength fines; light olive brown; moist; weak reaction w/HCl; homogeneous; (Fill).	Discrete sample S02A collected @ 12.0-12.7' Set nominal 6" temporary steel casing to 12.7'. Below 12.7' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud
SPT	3	5	12.75	2	3	0.9	14					
							15				Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; gray; soft; moist;	

5/12/2008 5:34 PM DTE - Fermi 3 Geotech





## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C1

SHEET 2 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6363.4' E 4451.9'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 128.0 (feet)																															
SURFACE CONDITIONS Gravel parking lot near storage garage										COORDINATE SYSTEM Plant										DATE START 07/16/07										DATE FINISHED 09/21/07																															
SAMPLING										LOGGED BY EPA 60 for Mass/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
TW		4										1.5		15		565						homogeneous; (Lacustrine Deposit).																				as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 1.75 TSF @ 14.0'.																			
TW		5										1.8		16		564						Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; grayish brown; hard; moist; homogeneous; (Glacial Till).																				PP > 4.5 TSF @ 17.5'.																			
TW		6										1.2		17		563						grades 88% LL=41, PL=19 fines; about 12% sand; trace fine to coarse, subrounded gravel w/max. size 1/2", fractured w/2 hammer blows; light olive brown @ 18.0'																				PP > 4.5 TSF @ 20.0'.																			
SPT		7		16		28		31		59		1.5		18		562						grades olive brown @ 22.5'																				TW-6 bent possibly on gravel or cobble.																			
SPT		8		21		24		27		51		1.4		19		561						Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded to subangular sand; about 10% fine to coarse, subrounded to subangular gravel w/max. size 3/4", fractured w/2 hammer blows; dark green; very hard; moist; (Glacial Till).																				PP > 4.5 TSF @ 24.0'.																			
SPT		9		4		5		6		11		0.5		20		560						Silty GRAVEL (GM) - About 75% fine to coarse, subangular to subrounded gravel w/max. size 1 1/2", fractured with 3 hammer blows; about 15% low plasticity, low toughness, slow dilatancy fines; about 10% medium to coarse, subangular to subrounded sand; gray; medium dense; wet; (Glacial Till).																				PP > 4.5 TSF @ 26.5'.																			

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C1

SHEET 3 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																																																																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6363.4' E 4451.9'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 128.0 (feet)																																																																																																																																																																																																																											
SURFACE CONDITIONS Gravel parking lot near storage garage										COORDINATE SYSTEM Plant										DATE START 07/16/07										DATE FINISHED 09/21/07																																																																																																																																																																																																																											
SAMPLING										LOGGED BY EPA GLO for Mass/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																																																																																																																																																																											
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																																																																																																																																					
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																																																																																																																																																		
SPT										10										5										17										50/3"										50+										0.5										30										550																				Clayey GRAVEL (GC) - About 70% fine to coarse, subangular to subrounded gravel w/max. size 1 1/2"; about 20% high plasticity, high toughness, no dilatancy fines; about 10% medium to coarse, subangular to subrounded sand; dark gray; very dense; moist; (Weathered Rock).																																																																																																																																																					
S										11																				32.5																														3.0										31										549																				DOLOMITE; light brown & gray, mottled; micritic; fresh ; strong; hard; (Bass Islands Group).										Below 32.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1. Set nominal 6" temporary steel casing to 35.5'. Below 35.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 35.5'. No drilling fluid return @ 36.0'.																																																																																																																																											
PQ										1										5.0										4.5										3.8										90										76										32										548																				DOLOMITE; argillaceous; gray; micritic; slightly weathered; very strong; hard; w/dark gray partings; (Bass Islands Group). pitted @ 36.3-37.0', 39.4-39.7' 0°,B,N,No,No,Ir,R @ 37.2',38.7',38.8'																																																																																																																																																					
																				35.5																																																		33										547																																																																																																																																																																									
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**BLACK & VEATCH**

## BORING LOG

**BORING NO. CB-C1**

SHEET 4 OF 9

CLIENT						PROJECT						SHEET # OF	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, MI				N 6363.4'				E 4451.9'				580.6 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Gravel parking lot near storage garage						Plant				07/16/07		09/21/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Mass/Ang/Grainger				Dogbey/Bonnie		Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	3	5.0	5.0	1.0	100	20	45.5		535		DOLOMITE; grayish brown; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group). 85-90°, J,T,No,No,Ir,R @ 45.3-46.2', 46.3-50.5' 0°, B,UK,Su,Ir,SR @ 46.2'	Core box #2 starts @ 45.5'.  —45.3	
							46		534		pitted & vuggy @ 47.2-47.7'		
							47		533		fractured @ 47.8-48.3' 0°, B,UK,Su,Ir,SR @ 47.8'		
							48		532		85-90°, J,T,No,No,Ir,R @ 47.8-48.9' 0°, B,UK,Su,Ir,SR @ 48.7'		
							49		531		85-90°, J,T,No,No,Ir,R @ 49.3-50.0' 0°, B,UK,Su,Ir,SR @ 49.4'		
							50		530		60°, J,N,No,No,Ir,R @ 50.5' 0°, B,UK,Su,Ir,SR @ 51.0', 51.2'		
PQ	4	5.0	5.0	1.0	100	20	50.5		529		DOLOMITE; light gray & dark gray (mottled); micritic; fresh; very strong; hard; w/argillaceous partings & stylolites; (Bass Islands Group).	51.1	
							51		528		very closely spaced (1"), parallel 90°, J,T,No,No @ 52.4-53.9'		
							52		527		fractured @ 53.3-53.9' 0°, B,UK,Su,Ir,SR @ 53.7', 53.9'		
							53		526		DOLOMITE; argillaceous; dark grayish brown; pitted; micritic; fresh; very strong; hard; (Bass Islands Group). 90°, J,T,No,No,Ir,R @ 53.9-57.2' 0°, B,UK,Su,Ir,SR @ 55.0'		
							54		525		0°, B,UK,Sp,Pl,SR @ 56.1', 56.3'		
							55		524				
							56		523				
							57		522				
PQ	5	5.0	5.0	2.8	100	56	55.5		521		0°, B,UK,Sp,Pl,SR @ 59.1', 59.2', 59.4'	Core box #3 starts @ 55.5'. Water level @ 15.0' prior to drilling on 08/30/07.	
							58		520		BRECCIA; healed; pinkish gray; micritic; dolomite	59.4	
							59		519				
							60		518				

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C1

SHEET 5 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6363.4'					GROUND ELEVATION (DATUM) E 4451.9'					580.6 ft (NAVD 88)					TOTAL DEPTH 128.0 (feet)	
SURFACE CONDITIONS Gravel parking lot near storage garage										COORDINATE SYSTEM Plant					DATE START 07/16/07					DATE FINISHED 09/21/07	
LOGGED BY Mass/Ang/Grainger										CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer						
SAMPLING										CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
PQ	6	5.0	5.0	1.7	100	34								60		520		matrix w/light gray micritic dolomite clasts; fresh; very strong; hard; w/stylolites; (Bass Islands Group). fractured w/anhydrite crystals 59.4-60.5'			
														61		519		85-90°, J,T,No,No,Ir,VR @ 61.2-64.2'			
														62		518		fractured @ 62.1-63.6', 64.9-65.5'			
														63		517					
														64		516		60°, J,N,No,No,Ir,R @ 64.0'			
														65		515		DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90°, J,T,No,No,Ir,VR @ 65.5-66.7'	Core box #4 starts @ 64.5'.		
														66		514					
														67		513		DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; massive w/few dark gray, argillaceous partings; (Bass Islands Group). 0°, B,N,No,No,WA,R @ 66.7'			
														68		512					
														69		511		60°, J,T,No,No,PI,R @ 69.3'			
														70		510					
														71		509		BRECCIA; healed; pinkish gray; micritic; dolomite matrix; w/light gray, micritic dolomite clasts; fresh; strong; hard; contorted bedding & stylolites; (Bass Islands Group). 0°, B,CI,Fi @ 70.5'			
														72		508		90°, J,T,No,No,Ir,VR @ 71.8-73.7'			
														73		507		0°, B,N,No,No,WA,SR @ 72.1', 72.3'			
														74		506		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/argillaceous partings; (Bass Islands Group). 0°, B,N,No,No,WA,SR @ 73.7'	Core box #5 starts @ 73.7'.		
														75				fractured @ 74.1-75.5'			
																		10°, B,T,UK,Su,PI,SR @ 74.1', 74.7', 74.9'			

**BLACK & VEATCH**

# BORING LOG

BORING NO. CB-C1

SHEET 6 OF 9

CLIENT										PROJECT										PROJECT NO.																																																																																									
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																																																															
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																																																																															
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																																																																															
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																																	
CORE SIZE										RUN NUMBER										RUN LENGTH										RUN RECOVERY										RQD										PERCENT RECOVERY										RQD										REMARKS																																							
PQ										9										5.0										5.0										2.7										100										54										75										505										60° J,T,No,No,Ir,R @ 75.2'										75.3									
PQ										10										5.0										4.5										2.7										90										54										76										504										DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group).																			
PQ										11										2.5										2.5										1.8										100										72										77										503										10° B,T,UK,Su,Pl,SR @ 75.3', 75.4'																			
PQ										12										2.5										2.3										1.3										92										52										78										502										0-5° B,UK,Sp,Ir,R @ 75.6', 76.7'																			
PQ										13										2.5										2.3										1.3										92										53										fractured @ 76.0-76.9'																																							
PQ										14										2.5										2.3										1.3										92										54										30° J,UK,Sp,Ir,R @ 77.3'																																							
PQ										15										2.5										2.3										1.3										92										55										0-5° B,UK,Sp,Ir,R @ 78.2'																																							
PQ										16										2.5										2.3										1.3										92										56										fractured @ 78.2-78.3'																																							
PQ										17										2.5										2.3										1.3										92										57										fractured @ 79.4-80.1'																																							
PQ										18										2.5										2.3										1.3										92										58										0-5° B,UK,Sp,Ir,R @ 79.4'																																							
PQ										19										2.5										2.3										1.3										92										59										60° J,T,No,No,Ir,VR @ 80.5'																																							
PQ										20										2.5										2.3										1.3										92										60										5° B,N,No,No,Ir,R @ 80.7'																																							
PQ										21										2.5										2.3										1.3										92										61										5° B,N,No,No,Ir,R @ 81.4'																																							
PQ										22										2.5										2.3										1.3										92										62										5° B,N,No,No,Ir,R @ 82.0'																																							
PQ										23										2.5										2.3										1.3										92										63										70° J,N,Ca,Pa,Pl,R @ 82.5'																																							
PQ										24										2.5										2.3										1.3										92										64										fractured @ 87.7-88.4																																							
PQ										25										2.5										2.3										1.3										92										65										fractured @ 87.7-88.4																																							
PQ										26										2.5										2.3										1.3										92										66										0-5° B,N (solutioned) @ 88.6'																																							
PQ										27										2.5										2.3										1.3										92										67										0-5° B,N,No,No,Ir,R @ 89.4'																																							
PQ										28										2.5										2.3										1.3										92										68										85-90° J,N,No,No,Ir,VR @ 89.4-90.5'																																							

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C1

SHEET 7 OF 9

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6363.4'		GROUND ELEVATION (DATUM) E 4451.9'		TOTAL DEPTH 128.0 (feet)	
SURFACE CONDITIONS Gravel parking lot near storage garage				COORDINATE SYSTEM Plant		DATE START 07/16/07		DATE FINISHED 09/21/07	
LOGGED BY Mass/Ang/Grainger				CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
PQ	13	2.6	2.6	0.6	100	23	90.5		490		90° J,N,No,No,Ir,R @ 90.5-92.3'	Core box #7 starts @ 90.5'.          Core barrel blocked.	
									489		dolomite; mottled gray & dark gray @ 90.8-91.7'		
									489		0° B,N,No,No,Ir (solutioned) @ 91.3',91.6',91.7',92.0',		
									91.7				
									488		SHALE; gray; fissile; highly weathered; very weak; low hardness; (Bass Islands Group).		
									92.0				
									488		DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group).		
									93		0° B,N,No,No,Ir (solutioned) @ 93.1'		
									487				
									94		fractured @ 94.5-95.0'		
PQ	14	2.4	2.4	1.6	100	67	93.1		486			Core barrel blocked.	
									95		SHALE; dark gray; fissile; slightly weathered; weak; medium hard; (Bass Islands Group).		
									94.5		0° B,N,No,No,Ir (solutioned) @ 94.5',94.8'		
									94.9				
									485		DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group).		
									484		75° J,T,No,No,Ir,VR (slightly weathered) @ 95.2-95.9'		
									97		0-10° B,N,No,No,Ir,R (slightly weathered) @ 95.7', 95.5'		
									483		85-90° J,T,No,No,Ir,R @ 95.8-97.0'		
									98		50° J,T,Ca,Fe,PI,SR @ 96.5'		
									482		slightly weathered, fractured @ 97.3-97.8'		
PQ	15	5.0	4.8	2.7	96	54	95.5		481		50° J,T,Ca,Fe,PI,SR @ 97.7'	Core box #8 starts @ 100.5'.	
									99		slightly weathered, fractured @ 98.7-98.9'		
									480				
									100		0-10° B,N,No,No,Ir,R (slightly weathered) @ 99.9'		
									480		85° J,T,No,No,Ir,R @ 100.5-101.0'		
									101				
									479		50° J,T,Ca,Fe,PI,SR @ 101.3'		
									102				
									478				
									103		10° B,T,No,No,PI,SR @ 102.9'		
PQ	16	5.0	5.0	2.7	100	54	100.5		477				
									104		DOLOMITE; argillaceous; gray; micritic; slightly weathered; strong; hard; w/stylolites & argillaceous partings; (Bass Islands Group).		
									476		0-5° B,UK,Ca, slightly weathered @ 103.8', 104.9',		

**BLACK & VEATCH****BORING LOG**BORING NO. CB-C1  
SHEET 8 OF 9

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6363.4' E 4451.9'		GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 128.0 (feet)	
SURFACE CONDITIONS Gravel parking lot near storage garage				COORDINATE SYSTEM Plant		DATE START 07/16/07		DATE FINISHED 09/21/07	
SAMPLING				LOGGED BY Mass/Ang/Grainger		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
							GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	17	5.0	4.7	2.0	94	40	105		105.0'
							106		90° J,T,No,No,Ir,R @ 105.5-106.2', 107.0-107.6' 0° B,T,No,No,PI,SR @ 105.5', 105.6', 105.8', 106.2', 106.3', 106.6'
							107		0° B,T,No,No,PI,SR @ 107.0'
							108		0° B,T,No,No,PI,SR @ 107.4', 107.6'
							109		argillaceous seams w/calcite crystals @ 108.0'
							110		0° B,T,No,No,PI,SR @ 108.2'
							111		0° B,T,No,No,PI,SR @ 108.6'
							112		argillaceous seams w/calcite crystals @ 109.0', 109.4'
							113		0° B,T,No,No,PI,SR @ 109.6'
							114		DOLOMITE; crystalline; gray; micritic; fresh; very strong; hard; (Bass Islands Group). 60° J,N,No,No (slightly weathered) @ 110.5'
							115		0° B,T,No,No,WA,SR @ 110.9', 111.1', 111.2', 111.8', 112.1'
							116		85-90° J,T,No,No,Ir,R @ 111.2-112.1', 111.8-112.5', 112.7-113.2'
							117		0° B,T,No,No,WA,SR @ 113.5'
							118		85-90° J,T,No,No,Ir,R @ 114.1-114.7'
							119		0° B,T,Ca,Sp,WA,SR @ 114.1'
							120		30° J,T,Ca,Sp,PI,SR @ 114.8'
									pyrite & black material filling cracks @ 116.5', 117.9'
									60° J,N,No,No (slightly weathered) @ 116.7-117.2'
									0° B,N,Cl,Sp,Ir,R @ 118.2', 118.6'
									85-90° J,T,Cl,Sp,Ir,SR @ 118.2-119.3'
									fractured @ 118.6-119.3'
									DOLOMITE; argillaceous; dark grayish brown; fresh; very strong; hard; w/stylolites & argillaceous partings; (Bass Islands Group).

Core box #9 starts @ 110.5'.



5/12/2008 5:34 PM DTE - Fermi 3 Geotech





BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C2

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)																															
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07																															
SAMPLING										LOGGED BY Bonnie/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
														0								Silty COBBLES with Sand - About 60% angular, very hard cobbles w/max. size 9"; about 20% fine to coarse, spherical to elongated, hard sand; about 20% fines; dark gray; strong reaction w/HCl; homogeneous; (Fill).																				Boring advanced w/vacuum excavation.																			
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C2

SHEET 2 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)																																																																													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07																																																																													
SAMPLING										LOGGED BY Bonnie/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																													
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																					
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**BLACK & VEATCH****BORING LOG****BORING NO. CB-C2****SHEET 3 OF 19**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				TOTAL DEPTH 271.0 (feet)	
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant				DATE START 07/18/07				DATE FINISHED 08/01/07	
SAMPLING				LOGGED BY Bonnie/Ang/Grainger				CHECKED BY Dogbey/Bonnie				APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	1	0.3	30.7 0.3 31.0	0.0	100	0	30		550			Sample SC-1 stored in box labeled S1. Set nominal 6" casing to 30.5'. Below 30.7' continued w/triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.7'.	
PQ	2	5.0	5.0	4.1	100	82	31		549		DOLOMITE; crystalline; grayish brown; micritic; slightly weathered; very strong; hard; thick bedded w/stylolites; (Bass Islands Group). 0°,B, fractured @ 31.9-32.0'		
							32		548		0°,B,N,Pa,PI,SR @ 33.2', 33.9' 90° intersecting,J (70° intersection),T,No,No,Ir,VR @ 33.2-34.7'; partial Ca,Fi @ 34.2-34.6'		
							33		547		85°-90°,J,T,No,No,Ir,VR @ 34.6-36.7' pitted @ 34.9-35.5'		
							34		546				
							35		545				
							36		544		0°,B,MW (solutioned) @ 35.9'		
							37		543				
PQ	3	5.0	4.9	1.5	98	30	38		542		0°,B,N,No,No,PI,Ir,SR @ 37.5', 38.2', 38.5', 38.8' fractured zone 37.5-41.0' due to intersecting vertical joints & bedding	Core box #2 starts @ 39.5'.	
							39		541		0°,B,N,No,No,PI,Ir,SR @ 39.1', 39.3', 39.5'		
							40		540		85-90°,Two joints (70° intersection),T,No,No,Ir,VR @ 39.6-42.5' 0°,B,N,No,No,PI,Ir,SR @ 39.7', 39.9', 40.0',40.3'		
							41		539		0°,B,N,No,No,PI,Ir,SR @ 40.6', 40.7', 40.9'	100% drilling fluid loss @ 41.0'.	
							42		538		0°,B,N,No,No,PI,SR @ 42.0', 43.2', 43.3'		
							43		537		50°,J,T,No,No,Ir,SR @ 42.5' 85°,J,T,No,No,Ir,R @ 42.9-43.6', 49.8' pitted @ 43.0-43.2', 45.0-45.5'	Drill chatter @ 43.0-44.0'.	
PQ	4	5.0	5.0	4.5	100	90	44		536		stylolites increasing frequency @ 43.8-46.0'		
							45						

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6353.2'					E 4517.1'					580.5 ft (NAVD 88)					271.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel parking area										Plant					07/18/07					08/01/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Bonnie/Ang/Grainger					Dogbey/Bonnie					Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS							
PQ	5	5.0	5.0	0.5	100	10		45		535																			
			46.0					46		534		fractured @ 46.0-47.2' 85-90°, J,T,No,No,Ir,VR @ 46.0-49.2'; intersected @ 70°, w/85-90° J,T,No,No,VR @ 46.0-48.5' 10°,B,N,No,No,Ir,R @ 46.5', 47.1', 47.8', 48.5'																	
								47		533																			
								48		532																			
								49		531		DOLOMITE; light brownish gray & gray, mottled; micritic; fresh; very strong; hard; (Bass Islands Group). 10°,B,N,No,No,Ir,R @ 49.2', 49.5', 50.0' 85-90°,J,T,No,No,Ir,VR @ 49.5-50.0'; 50.5-51.0' fractured @ 49.5-51.0'										Core box #3 starts @ 49.2'.							
			51.0					51		530																			
PQ	6	5.0	5.0	4.6	100	92		52		529		DOLOMITE; argillaceous; dark brownish gray; micritic; very strong; hard; thick bedded; fossiliferous; pitted w/stylolites & argillaceous partings; (Bass Islands Group).																	
								53		528																			
								54		527		0°,B,N,UK,Fi,PI,SR @ 53.5', 53.6', 53.8'																	
								55		526																			
			56.0					56		525																			
								57		524		0°,B,N,UK,Fi,PI,SR @ 56.3', 56.5'																	
								58		523		DOLOMITE; light brownish gray; crystalline; fresh; very strong; hard; w/zones of oolites; (Bass Islands Group). 90°,J,T,partly healed,anhydrite,Pa,Ir,VR @ 57.8-59.3'										Core box #4 starts @ 58.0'.							
PQ	7	5.0	5.0	3.5	100	70		59		522		20°,B,N,No,No,PI,R @ 58.4', 58.6', 58.7', 58.9', 59.3'																	
								60		521		40°,J,N,No,No,PI,R @ 59.3'																	
												DOLOMITE; gray; micritic; fresh; very strong; hard;																	

**BLACK & VEATCH****BORING LOG****BORING NO. CB-C2****SHEET 5 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07													
SAMPLING										LOGGED BY TB <i>GA</i> <i>60 for</i> Bonnie/Ang/Grainger										CHECKED BY TB <i>GA</i> Dogbey/Bonnie										APPROVED BY <i>EM</i> Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
PQ		8		5.0		5.0		4.3		100		86		60								medium bedded; w/argillaceous parting & stylolites; (Bass Islands Group).																					
						61.0								61								0°,B,N,UK,Su,PI,SR @ 61.2', 61.4', 61.6', 61.7', 62.3'																					
														62								0°,B,N,UK,Su,PI,SR @ 62.6', 62.9', 63.0'																					
														63																													
														517								DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; very strong; hard; massive; (Bass Islands Group).																					
														64								0°,B,MW,CI(black shale),Sp,PI,R @ 63.5'																					
														65																													
						66.0								66								DOLOMITE; white & gray, mottled; micritic; fresh; very strong; hard; (Bass Islands Group).																					
														67								contact @ 66.5' convoluted B,MW,CI,Fi,WA,R, @ 66.8' fractured @ 67.0-67.2'																				Core box #5 starts @ 67.3'.	
														68								DOLOMITE; argillaceous; light gray; fresh; very strong; hard; banded w/stylolites & argillaceous partings; (Bass Islands Group). convoluted bedding @ 68.2-69.3'																					
														69																													
														70																													
														510																													
														71								0°,B,N,No,No,PI,R @ 71.2', 71.4', 71.7'																					
														509																													
														72								0°,B,N,No,No,PI,R @ 72.4', 72.5', 73.0'																					
														508																													
														73																													
														507								85-90°,J,T,No,No,Ir,VR @ 73.3-74.8' fractured @ 73.3-74.9'																					
														74								DOLOMITE; crystalline; gray; fresh; extremely strong; hard; massive; (Bass Islands Group).																					
														506								0°,B,N,No,No,PI,R @ 74.2', 74.5', 74.6', 74.7', 74.6' 85-90°,J,T,anhydrite,Pa,Ir,VR @ 74.5-76.0' (parallel																					
														75																													

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CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C2

SHEET 7 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07													
SAMPLING										LOGGED BY Bonnie/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																															
PQ		14		5.0		5.0		2.4		100		48		90								0-5° B,N,UK,Su,WA,R @ 90.0', 90.6'																					
						91.0								91								SHALE; black; slightly weathered; low hardness; no reaction w/HCl; (Bass Islands Group).																					
														92								DOLOMITE; dark gray; micritic; fresh; very strong; hard; (Bass Islands Group).																					
														93								0° B,N,UK,Sp,Ir,R @ 91.6', 92.1', 92.3'																					
														94								DOLOMITE; dark grayish brown; crystalline; fresh; very strong; hard; banded w/stylolites; (Bass Islands Group).																					
														95								20° J,T,No,No,PI,SR @ 92.8', 92.9'																					
														96								0° B,N,UK,Sp,Ir,R @ 93.3', 94.1'																					
														97								60° J,MW (solutioned) @ 93.3'																					
														98								85-90° J,N,anhydrite,Pa,Ir,R @ 93.5-94.2'																					
														99								20° J,T,No,No,PI,SR @ 94.9'																					
														100								60° J,N,No,No,PI,SR @ 95.9'																					
														101								85-90° J,T,No,No,Ir,R @ 96.3-97.5'																					
														102								0° B,N,UK,Su,Ir,VR @ 97.2', 98.2'																					
														103								SHALE; dark grayish brown; highly weathered; (Clay); medium plasticity, medium toughness, no dilatancy; hard; moist; no reaction w/HCl; (Bass Islands Group).																					
														104								DOLOMITE; dark grayish brown; crystalline; fresh; very strong; hard; banded; w/stylolites; (Bass Islands Group).																					
														105								20° J,N (solutioned) @ 97.7', 98.2'																					
														106								healed brecciated zones @ 98.2-98.7', 99.7-100.5'																					
														107								0° B,N,UK,Sp,PI,R @ 101.5', 101.6', 101.7', 102.0'																					
														108								fractured @ 102.3-102.5'																					
														109								DOLOMITE; argillaceous; very dark gray; fresh; very strong; hard; w/thin argillaceous partings; (Bass Islands Group).																					
														110								0° B,N,anhydrite,Fi @ 102.8'																					
														111								0° B,N,UK,Sp,PI,R @ 103.6', 104.3'																					
														112								fractured @ 103.8-103.9'																					
														113								fractured @ 104.6'																					

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Core box #8 starts @ 95.8'. Water level @ 18.0' prior to drilling on 07/30/07.

Core box #9 starts @ 104.8'.



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## BORING LOG

BORING NO. CB-C2

SHEET 8 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				TOTAL DEPTH 271.0 (feet)	
SURFACE CONDITIONS Gravel parking area						COORDINATE SYSTEM Plant		DATE START 07/18/07		DATE FINISHED 08/01/07			
SAMPLING						LOGGED BY EUA Geofor Bonnie/Ang/Grainger		CHECKED BY TB Dogbey/Bonnie		APPROVED BY EM Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							105				0°,B,N,UK,Sp,PI,R @ 105.2'		
									475				
							106				fractured @ 106.0-106.5'		
									474		90°,J,T,No,No,Ir,R @ 106.0-107.3'		
											DOLOMITE; gray; crystalline; fresh; very strong; hard; medium bedded w/stylolites; (Bass Islands Group).		
							107				0°,B,N,No,No,PI,SR @ 106.4', 106.5', 106.7', 107.1', 107.3', 107.35', 108.2'		
									473		fractured @ 106.7-107.1', 107.9-108.2'		
							108				90°,J,T,No,No,Ir,R @ 107.4-108.9'		
PQ	17	5.0	5.0	1.7	100	34			472		80°,J,T,No,No,Ir,R @ 108.2-108.9'		
							109				0°,B,N,No,No,PI,SR @ 109.1', 109.2'		
									471				
							110				80°,J,T,No,No,Ir,R @ 110.0-111.0', 110.0-111.1'		
									470		90°,J,T,No,No,Ir,R 110.0-112.0'		
											0°,B,N,No,No,PI,SR @ 110.0', 110.2', 110.6'		
							111				fractured @ 110.0-110.2'		
									469		0°,B,N,UK,Sp,Ir,VR @ 111.1', 111.5', 111.8'		
							112				0°,B,MW (solutioned) @ 111.7'		
									468		0°,B,MW (solutioned) @ 112.1'		
							113						
PQ	18	5.0	5.0	3.0	100	60			467		0°,B,MW (solutioned) @ 113.7'		
							114						
									466				
							115						
									465		20°,J,MW, 1/4" shale parting; gray; highly weathered; comparable to medium plasticity, medium toughness, no dilatancy; hard soil fines @ 115.3-115.4'		
							116				80°,J,T,Ca,H,Ir,R @ 115.3-117.1'		
									464		DOLOMITE; argillaceous; very dark grayish brown; fresh; very strong; hard; massive; pitted; w/stylolites; (Bass Islands Group).		
							117				90°,J,T,No,No,Ir,VR @ 116.0-117.3'		
									463				
							118						
PQ	19	5.0	4.8	3.5	96	70			462				
							119				CLAY (CL); gray; medium plasticity, medium toughness, no dilatancy; hard; (Bass Islands Group).		
									461		0-10°B,MW (solutioned) @ 118.7'		
							120				DOLOMITE; argillaceous; very dark grayish brown;		

Core box #10 starts @ 114.0'.

Soft drilling @ 119.0'.





BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C2

SHEET 9 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07													
SAMPLING										LOGGED BY Bonnie/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
PQ		20		5.0		3.8		1.1		76		22		120				460				fresh; very strong; hard; massive; pitted; w/stylolites; (Bass Islands Group). 75°, J, N, No, No, Ir, R @ 119.2' 10°, B, N, anhydrite, Fi @ 119.2' 10°, B, N, No, No, Ir, R @ 119.6', 119.7' 0-10°, B, MW (solutioned) @ 120.3' healed brecciated @ 120.5-122.1' 75°, J, N, No, No, Ir, R @ 121.4-122.1'																					
				121.0										121				459																									
														122				458																									
														123				457				50°, J, N, No, No, Ir @ 122.6' (slightly weathered) 0°, B, N, No, No, Pl, SR @ 123.0', 123.5', 123.6', 123.8', 124.0', 124.1', 124.3' clay band (CL); gray; medium plasticity, medium toughness, no dilatancy; hard; @ 123.3-123.4'																				Core box #11 starts @ 123.0'.	
														124				456				DOLOMITE; micritic; (Salina Group - Unit F).																				Core loss @ 124.5-126.0'.	
														125				455																									
				126.0										126				454				DOLOMITE; argillaceous; gray; slightly weathered to fresh; strong to very strong; hard; w/band of grayish brown; pitted; very fine grained dolomite; w/partings & nodules of anhydrite; (Salina Group - Unit F). Clay (CL); medium plasticity, medium toughness, no dilatancy; soft; @ 126.0-126.2' fractured @ 126.2-127.1' 0°, B, N, No, No, Ir, R @ 126.4', 126.6', 127.0', 127.7' 70°, J, N, No, No, Ir, R @ 127.4-128.4'																					
														127				453																									
														128				452				0°, B, N, No, No, Ir, R @ 128.1', 128.2', 128.4' fractured @ 128.2-128.7' 70°, J, N, No, No, Ir, R @ 128.7-129.5' 0°, B, N, No, No, Ir, R @ 128.8', 129.3', 129.6'																					
														129				451																									
														130				450				fractured @ 130.2-131.0' 0°, B, N, No, No, Ir, R @ 130.4', 130.5'																					
				131.0										131				449																								Core loss @ 131.1-132.3'.	
														132				448																									
														133				447				90°, J, N, No, No, Ir, R @ 132.2-132.9' 0°, B, N, No, No, Ir, R @ 132.2', 132.7', 0°, B, N, Ir, R @ 132.9', 133.1', 134.4'																					
														134				446				fracture zone @ 134.1-134.3'; fossiliferous; grayish brown limestone																				Core box #12 starts @ 134.1'.	
														135																													

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C2

SHEET 10 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07									
SAMPLING										LOGGED BY TB <i>EIA Geo Tech</i> Bonnie/Ang/Grainger										CHECKED BY TB <i>EIA Geo Tech</i> Dogbey/Bonnie										APPROVED BY <i>EM</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
PQ	23	5.0	4.4	0.9	88	18	135		445		DOLOMITE; dark gray; micritic (Salina Group - Unit F)																												
							136		444		CLAYSTONE; dolomitic; gray; slightly weathered; strong to weak; moderately hard; (Salina Group - Unit F). 0°,B,N,No,No,Ir,R @ 134.8', 135.0', 135.1'																												
							137		443		LIMESTONE; argillaceous; dark gray; very fine grained; moderately hard to weak; interbedded w/gray dolomitic claystone; bedding contorted; (Salina Group - Unit F). 0°,B,N,No,No,Ir,R @ 137.1', 137.5', 138.2'																												
							138		442																														
							139		441		CLAYSTONE; dolomitic; gray; slightly weathered; strong; moderately hard; thick bedded; (Salina Group - Unit F). fractured @ 138.9-139.9', 140.2-140.4' 90°,J,N,No,No,Ir,SR @ 138.9-139.9'																												
							140		440																														
							141		439		10°,B,N,No,No,PI,R @ 141.3', 141.7'																												
							142		438		LIMESTONE; argillaceous; gray; fine grained to very fine grained; moderately weathered; weak to moderately strong; moderately hard; pitted; (Salina Group - Unit F).																												
PQ	24	5.0	4.8	0.5	96	10	143		437		fractured/gravelly @ 143.5-144.7'																												
							144		436		highly weathered @ 144.5-144.7'																												
							145		435		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°,J,T,No,No,PI,SR @ 144.9-147.0'																												
							146		434																														
							147		433																														
PQ	25	5.0	2.5	0.0	50	0	148		432		CLAYSTONE; dolomitic; gray; slightly to moderately weathered; weak; moderately hard; w/softer gravelly zones & thin clayey dolomite layers; (Salina Group - Unit F).																												
							149		431																														
							150																																

Core box #13 starts @ 144.2'.

Sampler frequently jammed @ 146.0-148.0'.

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C2

SHEET 11 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant				DATE START 07/18/07				
								DATE FINISHED 08/01/07				
SAMPLING				LOGGED BY Bonnie/Ang/Grainger				CHECKED BY Dogbey/Bonnie				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							150					
									430			
			151.0				151				CLAYSTONE; calcareous; gray; slightly to moderately weathered; moderately strong; low to moderately hard; w/thin limestone & dolomite bands; (Salina Group - Unit F). dolomite band; clayey @ 152.0-152.2'	
									429			
							152					
									428			
PQ	26	5.0	4.0	1.6	80	32	153					
									427			Discrete sample box 13A collected @ 153.5-154.4'.
							154					
									426			
							155				0°,B,soft;fractured @ 154.7-154.9'	
									425		0°,B,N,No,No,Ir,R @ 155.2'	
							156					
			156.0						424		DOLOMITE; (Salina Group - Unit F).	
							157					
									423			
PQ	27	5.0	3.0	0.0	60	0	158				CLAYSTONE; calcareous; gray; slightly to moderately weathered; moderately strong; low to moderately hard; w/thin limestone & dolomite bands; (Salina Group - Unit F). dolomite band @ 158.5-158.7'	Core box #14 starts @ 158.5'.
									422			
							159				dolomite band @ 159.1-159.4'	
									421			
							160					
									420			
							161					
			161.0						419		fractured @ 161.4-161.7'	Water level @ 17.3' prior to drilling on 07/31/07.
							162					
									418		0-5°,B,W,No,No @ 162.3'	
							163				fractured @ 162.7-162.9'	
PQ	28	5.0	3.0	1.2	60	24			417		dolomite band; gray; micritic @ 163.4-163.6'	
							164					
									416			
							165					

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## BORING LOG

BORING NO. CB-C2

SHEET 12 OF 19

CLIENT		PROJECT		PROJECT NO.						
Detroit Edison		Fermi 3 COL Application		147483						
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)						
Monroe, MI		N 6353.2' E 4517.1'		580.5 ft (NAVD 88)						
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START						
Gravel parking area		Plant		07/18/07						
SAMPLING		LOGGED BY		APPROVED BY						
SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY		Bonnie/Ang/Grainger		Dogbey/Bonnie						
CORING		DEPTH (FEET)		CLASSIFICATION OF MATERIALS						
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD PERCENT RECOVERY RQD		SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG		REMARKS						
		165	415	CLAYSTONE; gray; slightly to moderately weathered; weak to moderately strong; low hardness; w/thin partings to bands of gray, fine grained limestone & bands of gray, micritic dolomite; (Salina Group - Unit F).						
PQ	29	3.3	3.2	1.2	97	36	166	414		
			166.0				167	413		
							168	412		
							169	411		
PQ	30	1.7	1.6	0.8	94	47	170	410		
							171	409		
			171.0				172	408		
PQ	31	3.0	2.5	0.4	83	13	173	407		
							174	406		
			174.0				175	405		
PQ	32	2.0	0.8	0.0	40	0	176	404		
							177	403		
			176.0				178	402		
PQ	33	4.0	2.1	0.0	52.5	0	179	401		
							180	400		

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# BORING LOG

BORING NO. CB-C2

**SHEET 13 OF 19**

CLIENT						PROJECT				PROJECT NO.		
Detroit Edison						Fermi 3 COL Application				147483		
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH			
Monroe, MI			N 6353.2'			E 4517.1'			580.5 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED		
Gravel parking area						Plant		07/18/07		08/01/07		
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY		
						Bonnie/Ang/Grainger		Dogbey/Bonnie		Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	34	1.0	180.0	1.0	0.0	100	0		180		<u>SAND</u> ; fine to coarse grained; (Salina Group - Unit F).	Core barrel jammed @ 180.0'.
			181.0						181		<u>CLAYSTONE</u> ; gray; completely weathered; w/micritic dolomite fragments & sand; properties comparable to: gravelly lean clay - about 70% medium plasticity, medium toughness, no dilatancy soil fines; about 20% fine to coarse, angular, hard gravel w/max. size 2"; about 10% fine to coarse, angular, hard sand; (Salina Group - Unit F).	Drill chatter @ 180-181'.
PQ	35	5.0	2.7	0.0	54	0			183		<u>BRECCIA</u> ; gray; poorly indurated claystone matrix; w/dolomite clasts; micritic; gray; strong; ranging from sand size to >3"; (Salina Group - Unit F).	
									184		micritic dolomite, fractured @ 184.1-184.3'	
									185			Core box #16 starts @ 185.0'.
									186			
									187			Prior to run 36, pulled back 10'. Caved about 1.0'; washed back down to 186.0'.
PQ	36	5.0	3.8	0.0	76	0			188		30°, J, PI, SR @ 187.9'	
									189			
									190		<u>BRECCIA</u> ; light brownish gray; partially healed calcareous clay & calcite matrix; w/angular dolomite clasts; max. size 3"; (Salina Group - Unit F).	
									191		60°, J, No, No, PI, SR @ 191.1'	
									192			
									193		grades w/clasts maximum size 1" @ 192.6'	
PQ	37	5.0	4.3	0.9	86	18			194			
									195			

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C2

SHEET 14 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6353.2'					GROUND ELEVATION (DATUM) E 4517.1'					580.5 ft (NAVD 88)					TOTAL DEPTH 271.0 (feet)	
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant					DATE START 07/18/07					DATE FINISHED 08/01/07	
SAMPLING										LOGGED BY Bonnie/Ang/Grainger					CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET	6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
									195		385		DOLOMITE; gray; micritic; fresh; very strong; hard; thin bedded; (Salina Group - Unit F). 0°, B, N, No, No, PI, R @ 195.2', 195.3', 195.4' 90°, J, No, No, PI, R @ 195.2-196'					Core loss @ 196.0-198.0'.			
			196.0						196		384		DOLOMITE; gray; micritic; slightly weathered; strong; thin bedded; interbedded w/claystone; (Salina Group - Unit F).					Prior to run 38, pulled back 10'. Some cave-in. Washed back down to 196.0'.			
PQ	38	5.0	2.2	0.0	44	0			197		383		soft; weathered @ 198.0-199.0'								
									198		382										
									199		381										
									200		380		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; fossiliferous; (Salina Group - Unit F). 20°, B, N, PI, R @ 200.4', 200.5'					Core box #17 starts @ 200.0'.			
			201.0						201		379		LIMESTONE; dark grayish brown; pitted & vuggy; crystalline; very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F).								
									202		378										
PQ	39	5.0	3.6	0.9	72	18			203		377		60°, J, N, No, No, Ir, VR @ 203.1' 90°, J, T, No, No, Ir @ 203.4-204.0' dolomite; micritic; light gray; fossiliferous; fractured @ 203.7-204.1'								
									204		376		BRECCIA; light gray; claystone matrix; w/light gray dolomite clasts; hard; cemented; (Salina Group - Unit F).								
									205		375		LIMESTONE; dark grayish brown; pitted & vuggy; crystalline; very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 0°, B, Ir (solutioned) @ 205.3', 205.8'								
			206.0						206		374										
									207		373										
PQ	40	5.0	3.8	1.9	76	38			208		372		BRECCIA; calcareous clay matrix; light gray; cemented; w/light brownish gray; micritic dolomite clasts; maximum size 2"; angular; (Salina Group - Unit F).								
									209		371		fractured @ 209.4-209.8', 210.1-210.2'								
									210												

5/20/2008 4:40 PM DTE - Fermi 3 Geotech

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BORING NO. CB-C2

SHEET 15 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2'		GROUND ELEVATION (DATUM) E 4517.1'		580.5 ft (NAVD 88)		TOTAL DEPTH 271.0 (feet)		
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant		DATE START 07/18/07		DATE FINISHED 08/01/07				
SAMPLING				LOGGED BY TB Bonnie/Ang/Grainger		CHECKED BY TB Dogbey/Bonnie		APPROVED BY EM Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	41	5.0	5.0	3.8	100	76	210		370		fractured @ 210.1-210.2'	
			211.0				211		369			Core box #18 starts @ 211.0'.
							212		368		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; closely spaced horizontal & vertical fractures filled w/gray limestone; (Salina Group - Unit F).	
							213		367		DOLOMITE; brecciated, healed; (Salina Group - Unit F).	
							214		366		LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh to slightly weathered; strong; hard; w/vugs filled w/claystone; light brownish gray; highly weathered (some claystone washed away); (Salina Group - Unit F).	
							215		365		DOLOMITE; crystalline; light brownish gray; micritic; slightly weathered; strong; hard; w/limestone interlayered in upper 1.0'; (Salina Group - Unit F).	
			216.0				216		364		gradational contact over 1.0' @ 214.2' 0°, B,N,UK,Sp,PI,SR @ 214.4', 214.5', 214.9', 215.4', 216.0', 216.1', 216.6', 216.9' 85-90°, J,T,Ca,H,Fi,Ir @ 216.0-217.0'	
							217		363		60°, J,N,PI,SR @ 217.2-217.6', 218.2' 0°, B,N,UK,Sp,PI,SR @ 217.5', 217.8', 218.0', 218.3' 60°, J,PI,SR @ 217.9-218.1'	
PQ	42	5.0	3.1	0.4	62	8	218		362		fractured zone (core loss) @ 218.3-220.8'	
							219		361			
							220		360			
							221		359			Core box #19 starts @ 221.0'. Water level @ 23.4' on 08/01/07.
			221.0				222		358		LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F).	
							223		357		DOLOMITE; light brownish gray; micritic; (Salina Group - Unit F).	
							224		356		fractured zones @ 222.7-223.1', 223.4-223.9'	
PQ	43	5.0	4.5	0.9	90	18	225		355		LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F).	
											60°, J,N,No,No,Ir,VR @ 223.9', 225.1'	
											fractured zones @ 224.7-225.1'	



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## BORING LOG

BORING NO. CB-C2

SHEET 16 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07													
SAMPLING										LOGGED BY Bonnie/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
PQ		44		5.0		4.5		0.8		90		16		225								DOLOMITE; light brownish gray; micritic; (Salina Group - Unit F).																					
														226								grading gray; micritic; hard @ 226.3'																					
														227								LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F). 80° J,N,No,No,Ir,VR @ 227.1-227.8', 227.7-228.1'																					
														228								DOLOMITE; brownish gray; micritic; slightly weathered; strong; hard; w/calcite healed fractures; (Salina Group - Unit F). healed fracture @ 228.1-228.7'																					
														229								0-5° B,W (solutioned), R @ 228.3', 228.7', 228.9'																					
														230								80° J,Ca,H,Sp,Ir @ 228.4-228.8', 229.4-229.8'																					
														231								0-5° B,W (solutioned), R @ 230.0', 230.1', 230.6'																					
														232								healed fracture @ 230.3-230.6'																					
														233								BRECCIA; poorly cemented; dark grayish brown; crystalline limestone matrix; w/angular dolomite clasts; light brownish gray; micritic; (Salina Group - Unit F).																				Core box #20 starts @ 231.0'.	
														234																													
														235																													
														236								DOLOMITE; dark gray; micritic; slightly weathered; strong; hard; w/soft layers; (Salina Group - Unit F). 80° J,T,Ca,Fi,PI,R @ 235.3' strike intersecting @ 70° w/80° J,T,Ca, Fi,PI,R @ 235.3'																					
														237																													
														238																													
														239																													
														240																													



**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C2

SHEET 17 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2'		GROUND ELEVATION (DATUM) E 4517.1'		580.5 ft (NAVD 88)		TOTAL DEPTH 271.0 (feet)		
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant		DATE START 07/18/07		DATE FINISHED 08/01/07				
SAMPLING				LOGGED BY Bonnie/Ang/Grainger		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							240				90°, J, PI, R @ 240.0-240.8'	
							241				CLAY; dolomitic (Salina Group - Unit F).	Barrel dropped 0.2' at end of run 46. Possible soft zone - barrel washed down to 242.0' from 241.9'.
PQ	47	2.5	0.5	0.0	20	0	242					
							243				DOLOMITE; dark gray; micritic; strong; hard; w/very soft white clay coating rock; (Salina Group - Unit F).	
							244				90°, J, PI, SR @ 243.0-243.5'	
PQ	48	2.5	1.6	0.0	64	0	245				BRECCIA; poorly indurated claystone matrix; vuggy limestone; fossiliferous dolomite; (Salina Group - Unit F).	
							246				DOLOMITE; gray; micritic; strong; hard; (Salina Group - Unit F).	Prior to run 49, pulled back 10'. Caved to 242.5'; washed back down to 246.0'.
							247				0°, B, N, UK, Sp, PI, SR @ 245.5', 245.6'	
							248				light brownish gray @ 246.0-246.2'	
PQ	49	5.0	4.6	3.3	92	66	249				DOLOMITE; fossiliferous; light brownish gray; micritic; fresh; very strong; hard; medium bedded; w/stylolites; (Salina Group - Unit E).	
							250				10°, B, N, UK, Pa, WA, SR @ 247.2', 247.5', 248.2'	
							251				85°, J, T, Ca, Pa, Ir, SR @ 251.0-251.7'	Core box #21 starts @ 251.0'.
							252				10°, B, N, UK, Pa, WA, SR @ 251.2', 252.3'	
							253				0°, B, N, UK, Pa, WA, SR @ 252.0', 252.2', 252.6', 252.7'	
PQ	50	5.0	5.0	3.8	100	76	254				0°, B, N, UK, Pa, WA, SR @ 254.0', 254.8'	
							255					



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## BORING LOG

BORING NO. CB-C2

SHEET 18 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				TOTAL DEPTH 271.0 (feet)	
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant				DATE START 07/18/07				DATE FINISHED 08/01/07	
SAMPLING				LOGGED BY Bonnie/Ang/Grainger				CHECKED BY Dogbey/Bonnie				APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
PQ	51	5.0	5.0	4.5	100	90	255				mottled, gray convoluted band @ 255.6-255.8'		
							256				0°B,N,UK,Pa,WA,SR @ 255.8'		
							257				5°B,N,No,No,PI,SR @ 256.0', 259.7'		
							258				0°B,N,UK,Su,WA,SR @ 256.7'		
							259				0°V,N, healed w/anhydrite & very fine dolomite chips @ 257.4'		
							260				65°J,T,anhydrite,Fi,Ir @ 257.4-258.1'		
							261						
							262						
							263						
							264						
							265						
							266						
							267						
							268						
							269						
							270						

5/20/2008 4:40 PM DTE - Fermi 3 Geotech





**BLACK & VEATCH**

**BORING LOG**

**BORING NO. CB-C2**

**SHEET 19 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6353.2' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)																																																																					
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 07/18/07										DATE FINISHED 08/01/07																																																																					
SAMPLING										LOGGED BY Bonnie/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																					
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																				310																																																																															
										271																																																																																									
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																				296																																																																															
																				285																																																																															

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6341.4'					E 4673.8'					581.1 ft (NAVD 88)		273.7 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		08/12/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Ang/Mass					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORING																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
S	1	1.3				NR	0		581		Gravelly COBBLES with Sand - About 60% angular, very hard cobbles; w/max. size 9"; about 20% fine to coarse, angular, hard gravel w/max. size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines; gray; dry; weak reaction w/HCl; homogeneous; (Fill).					Boring advanced w/vacuum excavation.					
							1		580												
							2		579												
							3		578												
							4		577												
							5		576												
							6		575												
							7		574												
							8		573												
							9		572												
S	2	10.0				NR	10		571							Discrete sample S02A collected from 14.0-15.0'.					
							11		570												
							12		569												
							13		568												
							14		567												
							15														



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 2 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4'										GROUND ELEVATION (DATUM) E 4673.8' 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)																																																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07																																																															
SAMPLING										LOGGED BY TB Bonnie/Ang/Mass										CHECKED BY EJA TB for Dogbey/Bonnie TB										APPROVED BY EJA Meyer																																																															
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	RQD																																																																																						
S 3										15.0										NR										15										566										PEAT (PT) - organic odor										Discrete sample B-2A taken from S-2 @ 14.0-15.0'. Set nominal 6" temporary steel casing to 15.5'. Hole opened to 17.7'.																																	
TW 4										17.3										1.7										16										565										Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; dark gray; soft; moist; no reaction w/HCl										Water level @ 9.6' on 07/24/07. Hole open to 16.9'. Below 16.9', continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/ D-50 automatic hammer. PP = 4.5 TSF @ 20.0'.																																	
TW 5																				1.2										17										564										Clayey GRAVEL with Sand (GC) - About 55% gravel w/max. size 3/4"; about 26% LL=41, PL=11, no dilatancy fines; about 19% sand; grayish brown; hard; moist; (Glacial Till).										PP > 4.5 TSF @ 22.5'.																																	
SPT 6										12 27 27 54										1.5										18										563										Sandy Silty CLAY (CL-ML) - About 59% LL=18, PL=11, no dilatancy fines; about 37% fine to coarse, subrounded sand; about 4% fine to coarse, subangular to subrounded gravel w/max. size 1/2", fractured w/2 hammer blows; dark gray; very hard; moist; (Glacial Till).										PP > 4.5 TSF @ 23.5'.																																	
SPT 7										18 27 36 63										1.0										19										562										grades olive brown @ 21.0'										PP > 4.5 TSF @ 26.0'.																																	
SPT 8										9 29 23 52										1.0										20										561										grades w/max. gravel size 1 1/2" @ 26.5'										Boulder @ 27.5'.																																	
																														21										560																																																					
																														22										559																																																					
																														23										558																																																					
																														24										557																																																					
																														25										556																																																					
																														26										555																																																					
																														27										554																																																					
																														28										553																																																					
																														29										552										Silty GRAVEL (GM) - About 70% coarse, subangular to subrounded, hard gravel w/max. size 1 1/2"; about 30% low plasticity, low toughness, rapid dilatancy fines; grayish brown; very dense; wet; (Weathered Rock).																																											
																														30																																																															



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 3 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)																																																																																									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07																																																																																									
SAMPLING										LOGGED BY TB Bonnie/Ang/Mass										CHECKED BY TB Dogbey/Bonnie										APPROVED BY TB Meyer																																																																																									
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																
SPT										9										34										14										26										40										1.0										30										551										Poorly graded GRAVEL (GP) - About 90% fine to coarse, subangular gravel max. size 1 1/2", fractured w/2 hammer blows; about 10% medium to coarse, subangular sand; gray; dense; wet; (Weathered Rock).																													
S										10																				32.5																				3.5										31										550																																																	
																														32.5																														32										549																																																	
																																																												33										548										DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).										Below 32.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core box #1 starts @ 32.5'.																													
																																																																						34										547																																							
																																																																																35										546																													
																																																																																36										545										shale parting - 0°, B,T,WA,SR @ 36.1' 60°, J,T,No,No,PI,Healed @ 36.3-36.6', 36.35-36.5'										Set nominal 6" temporary steel casing to 35.5'. Hole open to 36.0'.									
HQ										1										2.5										2.5										1.8										100										72										37										544										shale partings - 0°, B,T,PI,SR @ 37.3', 37.6', 37.85' 90°, J,T,CI,Sp,PI,SR @ 37.3-37.6'										Core box #1 starts @ 36.0'. Below 36.0', continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.																			
																																																																																38										543																													
																																																																																39										542										0°, J,VN,No,No,PI,SR @ 39.3', 40.2'																			
																																																																																40										541										90°, J,T,No,No,PI,SR @ 40.2-40.8', 42.0-43.2'																			
HQ										2										5.0										5.0										3.4										100										68										41										540										0°, J,VN,No,No,PI,SR @ 40.8', 41.0', 41.2'																													
																																																																																42										539										DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).										41.3'									
																																																																																43										538										0°, J,VN,No,No,PI,SR @ 43.0'																			
																																																																																44										537										shale partings - 0° B,VN,PI,SR @ 43.9', 44.25', 44.8' 90°, J,T,No,No,PI,SR @ 43.9-44.3', 44.8-45.1', 43.6-43.8' (on edge of core)																			
																																																																																45										537																													



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 4 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6341.4' E 4673.8'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot					COORDINATE SYSTEM Plant					DATE START 07/17/07				
DATE FINISHED 08/12/07					LOGGED BY Bonnie/Ang/Mass					CHECKED BY Dogbey/Bonnie				
APPROVED BY Meyer														

SAMPLING										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD										
HQ	3	5.0	5.0	3.7	100	74					45	536		shale parting - 0°,B,VN,PI,SR @ 45.4'		
											46	535		shale partings - 0°,B,VN,PI,SR @ 46.0', 46.15', 46.4'		
											47	534		DOLOMITE; gray; micritic; fresh; strong; hard; slightly pitted; (Bass Islands Group). 50°,J,T,No,No,PI,SR @ 46.7-46.8' 20°,J,T,No,No,PI,SR @ 46.9-48.0'		
											48	533		10°,J,T,No,No,Ir,R @ 47.8'		
			48.5								49	532		60°,J,T,No,No,PI,SR @ 49.0-49.3' 50°,J,T,No,No,PI,SR @ 49.3-49.4'		
											50	531				
HQ	4	5.0	4.6	3.8	92	76					51	530		80°,J,No,No,PI,Slk @ 50.6-51.0' shale band @ 50.6' 40°,J,No,No,PI,SR @ 50.6' 10°,J,T,No,No,PI,SR @ 51.5-51.6'		
											52	529				
											53	528				
			53.5								54	527				
											55	526		10°,J,VN,CI,Fi,PI,SR @ 54.6'		
											56	525		grades w/stylolites @ 55.5' convoluted bedding @ 55.8-56.0' 70°,J,VN,No,No,PI,SR @ 55.8-56.0' 0°,J,VN,No,No,PI,SR @ 56.0' 0°,B,T,No,No,PI,SR @ 56.6'		
HQ	5	5.0	5.0	5.0	100	100					57	524		grades light grayish brown @ 57.0' 40°,J,T,No,No,PI,SR @ 57.1-57.3'		
											58	523		grades no stylolites @ 58.0' 10°,J,T,No,No,PI,SR @ 58.0'		
			58.5								59	522		brecciated, healed @ 58.5-60.0'		
											60			20°,J,T,No,No,PI,SR @ 59.7-59.8'		

Core box #2 starts @ 49.4'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 5 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483																																																
PROJECT LOCATION Monroe, MI					COORDINATES N 6341.4'					GROUND ELEVATION (DATUM) E 4673.8' 581.1 ft (NAVD 88)					TOTAL DEPTH 273.7 (feet)																																											
SURFACE CONDITIONS Gravel parking lot					COORDINATE SYSTEM Plant					DATE START 07/17/07					DATE FINISHED 08/12/07																																											
SAMPLING					LOGGED BY Bonnie/Ang/Mass					CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer																																											
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																			
CORING																																																										
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																				
HQ 6 5.0 5.0 4.5 100 90								60					521										DOLOMITE; gray; (Bass Islands Group). J,VN,No,No,WA,SR @ 60.5'					60.0					Core box #3 starts @ 61.1'.																									
HQ 7 5.0 5.0 3.0 100 60								61					520										DOLOMITE; mottled; (Bass Islands Group). shale band @ 61.1-61.25					60.9																														
HQ 8 5.0 4.5 0.4 90 8								62					519										DOLOMITE; oolitic; (Bass Islands Group). 90°, F, T, No, No, WA, SR @ 61.5-64.5' (healed)					61.5																														
								63					518																																													
								64					517																																													
								65					516																																													
								66					515																																													
								67					514																																													
								68					513																																													
								69					512																																													
								70					511																																													
								71					510																																													
								72					509																																													
								73					508																																													
								74					507																																													
								75																																																		





## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4'										GROUND ELEVATION (DATUM) E 4673.8' 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07									
SAMPLING										LOGGED BY EUA 78kr Bonnie/Ang/Mass										CHECKED BY 8/14/07 Dogbey/Bonnie										APPROVED BY 5/11 Meyer									
SAMPLE TYPE		SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	9	5.0	5.0	4.1	100	82				75		506		20°, J, T, No, No, PI, SR @ 75.2'	Core box #4 starts @ 75.2'.																								
										76		505																											
										77		504																											
										78		503																											
										79		502		70°, J, T, No, No, PI, SR @ 78.3-78.8'																									
										80		501		20°, J, T, No, No, PI, SR @ 79.5-79.6'																									
HQ	10	5.0	5.0	4.5	100	90				81		500		45°, J, T, No, No, PI, SR @ 80.25-80.8'																									
										82		499		shale parting @ 81.25' brecciated, healed @ 81.25-81.7' 10°, J, T, Cl, Sp, PI, SR @ 81.7' 0°, J, T, Cl, Sp, PI, SR @ 82.1'																									
										83		498		0°, J, T, Cl, Sp, PI, SR @ 82.9'																									
										84		497		claystone; gray; slightly weathered, moderately strong; low hardness @ 83.5-83.7'																									
										85		496		shale parting - 0°, B, VN, PI, SR @ 84.9'																									
HQ	11	5.0	5.0	3.8	100	76				86		495		shale parting - 0°, B, VN, PI, SR @ 85.9' shale parting - 0°, B, VN, PI, SR @ 86.2' shale partings - 0°, B, VN, PI, SR @ 86.6', 87.1'	Core box #5 starts # 88.5'.																								
										87		494		pitted @ 87.2-87.8'																									
										88		493		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). shale parting @ 88.3'																									
										89		492		SHALE; dark gray; (Bass Islands Group). DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).																									
										90																													

5/13/2008 10:07 AM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C3

SHEET 7 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483											
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)		TOTAL DEPTH 273.7 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 08/12/07									
SAMPLING										LOGGED BY Bonnie/Ang/Mass										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS										
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS										
HQ	12	4.0	1.25	0.8	31	20	90		491		0°,B,T,No,No,WA,SR @ 90.0'																				
							91		490																						
							92		489																						
HQ	13	1.0	92.5	0.0	0	0	93		488												Core barrel blocked @ 92.5'.										
			93.5				94		487																						
							95		486																						
HQ	14	5.0	0.0	0.0	0	0	96		485												Rapid penetration @ 95.5-97.5'.										
							97		484																						
							98		483																						
HQ	15	1.0	98.5	0.0	0	0	99		482																						
			99.5				100		481																						
HQ	16	1.5	1.5	0.5	100	35	101		480		DOLOMITE; grayish brown & gray; micritic; fresh; strong; hard; banded; (Bass Islands Group). shale partings - 0°,B,VN,PI,SR @ 99.7', 100.4', 100.5', 100.6', 100.7', 100.8', 100.9' 15°,J,VN,CI,Sp,PI,SR @ 100.15' 90°,J,T,No,PI,SR @ 99.7-99.9', 100.4-100.7' (healed) shale partings - 0°,B,VN,Sp,PI,SR @ 101.05', 101.1', 101.5', 101.7', 101.8', 102.05', 102.25' 90°,J,VN,CI,Sp,PI,SR @ 101.5-102.1', 102.0-102.1'										Following run HQ-15, pulled outer barrel. Bedrock pieces in bottom of outer barrel - likely cause of '0' recovery in HQ-13, 14, & 15. Pieces saved as HQ-15 in core box.										
			101.0				102		479																						
HQ	17	2.5	2.5	1.0	100	40	103		478		shale partings - 0°,B,VN,Sp,PI,SR @ 102.5', 102.7'																				
			103.5				104		477		shale parting - 0°,B,VN,Sp,PI,SR @ 103.3' shale partings - 0°,B,VN,Sp,PI,SR @ 103.6', 103.65', 103.85' 90°,J,T,No,No,PI,SR @ 103.65-103.85', 103.95-104.05' 90°,J,T,H,Fi,PI,SR @ 103.85-103.95' (healed)																				
							105																								



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 8 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483																																					
PROJECT LOCATION Monroe, MI					COORDINATES N 6341.4' E 4673.8'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)					TOTAL DEPTH 273.7 (feet)																																
SURFACE CONDITIONS Gravel parking lot					COORDINATE SYSTEM Plant					DATE START 07/17/07					DATE FINISHED 08/12/07																																
SAMPLING					LOGGED BY Bonnie/Ang/Mass					CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>					CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																									
CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																									
HQ	18	5.0	4.6	2.5	92	50	105		476		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°, B, VN, Sp, PI, SR @ 103.95', 104.05', 104.3', 104.6', 104.8' 90°, J, T, H, Fi, PI, SR @ 104.05-105.1' 90°, J, T, No, No, PI, SR @ 106.1-106.2' shale partings - 0°, B, VN, Sp, PI, SR @ 106.1', 106.2', 106.3' 90°, J, T, H, Fi, PI, SR @ 106.2-108.2'																																				
							106		475																																						
							107		474																																						
							108		473		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). shale partings - 0°, B, VN, Sp, PI, SR @ 108.1', 108.5', 108.8', 109.2' 90°, J, T, No, No, PI, SR @ 108.2-108.8', 108.8-109.2' (on edge of core) grades gray w/stylolites @ 108.3-109.3' shale partings - 0°, B, VN, Sp, PI, SR @ 109.5', 109.8', 109.9' 80°, J, T, No, No, PI, SR @ 109.9-110.7' brecciated, healed @ 110.1-110.6'																																				
HQ	19	5.0	5.0	1.1	100	22	109		472																																						
							110		471																																						
							111		470		shale parting - 0°, B, VN, Sp, PI, SR @ 111.5' 20°, J, VN, CI, Sp, PI, R @ 111.8-111.9' 90°, J, T, No, No, PI, SR @ 111.8-113.5'	Core box #6 starts @ 111.5'																																			
							112		469																																						
							113		468		shale partings - 0°, B, VN, Sp, PI, SR @ 112.7', 112.9', 113.0', 113.2' fragmented @ 113.0-113.2' shale partings - 0°, B, VN, Sp, PI, SR @ 113.6', 116.65'	Water level @ 26.3' prior to drilling on 08/10/07.																																			
							114		467		pitted @ 114.1-116.6'																																				
							115		466																																						
HQ	20	5.0	5.0	4.5	100	90	116		465		60°, J, T, No, No, PI, SR @ 116.1-116.5'																																				
							117		464		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, B, VN, anhydrite, Fi, PI, SR @ 117.1' anhydrite filled vug @ 117.4'																																				
							118		463		30°, J, VN, Ca, Fi, PI, SR @ 117.9-118.1' anhydrite/shale parting @ 118.1' 75°, J, T, No, No, PI, S @ 118.2-118.5'																																				
							119		462																																						
							120		462																																						



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 9 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6341.4'		GROUND ELEVATION (DATUM) E 4673.8'		TOTAL DEPTH 581.1 ft (NAVD 88) 273.7 (feet)	
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 07/17/07		DATE FINISHED 08/12/07	
SAMPLING				LOGGED BY TB Bonnie/Ang/Mass		CHECKED BY TB Dogbey/Bonnie		APPROVED BY TB Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORING									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
							GRAPHIC LOG	CLASSIFICATION OF MATERIALS	
									REMARKS
HQ	21	5.0	3.8	1.6	76	32	120		461
								brecciated, healed @ 120.1-120.5'	
								convoluted bedding @ 120.5-120.8'	
								shale parting - 0°, B, VN, Sp, PI, SR @ 120.9'	
								0°, B, VN, No, No, PI, SR @ 121.7'	
							121	460	
								DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
								0°, B, VN, Ca, Fi, PI, SR @ 121.9', 122.1'	
								90°, J, T, No, No, PI, SR @ 122.1-122.3', 122.5-122.9',	
								123.0-123.5'	
								0°, B, VN, No, No, PI, SR @ 122.3', 122.4', 122.5', 122.7',	
								123.05', 123.25'	
								shale parting @ 122.35'	
							122	459	
							123	458	
							124	457	
							125	456	
							126	455	
HQ	22	5.0	3.1	0.5	62	10		90°, J, T, No, No, PI, SR @ 125.0-125.5'	
								0°, B, VN, No, No, PI, SR @ 125.5', 126.0', 126.1', 126.3',	
								126.5'	
								DOLOMITE; grayish brown; micritic; fresh; strong;	
								hard; banded; w/gypsum beds, veins; (Salina Group -	
								Unit F).	
								shale parting @ 126.65'	
								gypsum @ 126.65-126.7'	
								0°, B, VN, No, No, PI, SR @ 126.7', 126.9'	
								fragmented @ 126.7-127.1'	
								90°, J, VN, Ca, Fi, WA, SR @ 127.1-127.8'	
								gypsum band @ 127.1-127.3'	
								gypsum band @ 127.8-127.9'	
								90°, J, T, No, No, PI, SR @ 127.9-128.1'	
								gypsum band @ 128.0-128.1'	
							127	454	
							128	453	
							129	452	
							130	451	
							131	450	
HQ	23	5.0	3.0	0.7	60	14		0°, B, T, No, No, PI, SR @ 130.1', 130.5', 130.65', 130.9',	
								131.15'	
								gypsum band @ 130.2-130.3'	
								gypsum band @ 130.45-130.5'	
								90°, J, T, No, No, PI, SR @ 130.5-130.6'	
								70°, J, VN, No, No, PI, SR @ 130.6-130.8', 131.6-131.8'	
								DOLOMITE; argillaceous; light grayish brown; micritic;	
								fresh; strong; hard; (Salina Group - Unit F).	
								anhydrite convoluted veins @ 131.8-132.1'	
								90°, J, T, No, No, PI, SR @ 132.35-133.7'	
							132	449	
							133	448	
							134	447	
							135	447	
								CLAYSTONE; gray; highly weathered; weak; low	
								hardness; w/interbedded dolomite & limestone bands;	
								(Salina Group - Unit F).	
								fragmented @ 132.8-133.2', 132.3-133.5'	
								10°, J, T, No, No, PI, SR @ 133.1', 133.3'	
								limestone band @ 133.2-133.3'	
								limestone band @ 134.1-134.2'	

Core box #7  
starts @ 127.8'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 10 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6341.4'				GROUND ELEVATION (DATUM) E 4673.8' 581.1 ft (NAVD 88)				TOTAL DEPTH 273.7 (feet)	
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant				DATE START 07/17/07				DATE FINISHED 08/12/07	
SAMPLING				LOGGED BY TB Bonnie/Ang/Mass				CHECKED BY TB Dogbey/Bonnie				APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
HQ	24	5.0	2.3	0.0	46	0	135		446		limestone band @ 134.8-134.9'	Core loss @ 135.0'-138.5'	
							136		445		limestone band @ 135.5-135.6'		
							137		444		limestone @ 136.2-136.5'		
							138		443		dolomite band @ 137.5-137.7'		
							139		442		dolomite @ 138.2-138.5'		
							140		441		slightly weathered @ 138.5-138.7', 140.3-140.5'		
HQ	25	2.5	1.7	0.4	68	16	141		440		dolomite @ 138.7-139.0'		
							142		439		DOLOMITE; (Salina Group - Unit F). 10°B,VN,No,No,PI,SR @ 139.6', 139.7', 139.9' 90°J,T,No,No,PI,SR @ 139.7-140.3' 0°B,VN,No,No,PI,SR @ 140.0', 141.05', 141.1', 141.15'		
							143		438				
HQ	26	2.5	1.2	0.0	48	0	144		437		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F). dolomite band @ 141.2-141.4'		
							145		436		limestone band; fragmented @ 141.6-141.7'		
							146		435		dolomite band; w/calcite bedding @ 141.9-142.2'		
							147		434		DOLOMITE; (Salina Group - Unit F). 0°B,T,No,No,PI,SR @ 142.7', 142.8', 143.95', 143.1', 143.15', 143.2'		
							148		433		90°J,T,No,No,PI,SR @ 142.7-143.25'		
HQ	27	2.5	1.2	0.0	48	0	149		432		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F).		
							150				DOLOMITE; light brownish gray; (Salina Group - Unit F). highly fractured @ 144.2-144.5'		
											90°J,T,No,No,PI,SR @ 144.5-144.7'		
											0°B,T,No,No,PI,SR @ 144.5', 144.6', 144.7'		
											CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F).		
											0°B,T,No,No,PI,SR @ 145.0'		
											DOLOMITE; bluish gray; highly fractured; (Salina Group - Unit F).		
											CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F).		
											dolomite; argillaceous @ 148.8-149.2'		
											90°J,T,No,No,PI,SR @ 149.0-149.2'		
											60°J,T,No,No,PI,SR @ 149.1-149.2'		



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)																																																																																									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07																																																																																									
SAMPLING										LOGGED BY TB Bonnie/Ang/Mass										CHECKED BY TB Dogbey/Bonnie										APPROVED BY EJA Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																
																				150																														dolomite band; argillaceous @ 149.5-149.6'										Core box #8 starts @ 151.0'																																																											
																				151																														slightly weathered @ 150.2-150.4'																																																																					
																				151																														dolomite band @ 150.4-150.6'																																																																					
																				151																														slightly weathered @ 150.6-150.8'																																																																					
																				152																														dolomite band @ 151.3-151.5'																																																																					
HQ										30										2.5										0.7										0.0										28																				0										152																														dolomite band @ 151.9-152.1'									
																				152																																																												slightly weathered @ 152.1-152.3'																																							
																				153																																																																						dolomite band @ 152.9-153.0'																													
																				153																																																																						slightly weathered @ 153.0-153.2'																													
																				154																																																																																																			
HQ										31										2.5										0.5										0.0										20										0										154																																																	
																				155																																																																																																			
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																				156																																																																																																			
HQ										32										2.5										0.9										0.0										36										0										156																																								dolomite band @ 156.1-156.3'									
																				157																																																																																																			
																				157																																																																																																			
																				158																																																																																																			
HQ										32										2.5										0.9										0.0										36										0										157																																								dolomite @ 157.2-157.5'									
																				158																																																																																																			
																				158																																																																																																			
																				159																																																																																																			
HQ										33										2.5										1.3										0.4										52										16										158																																								dolomite @ 158.1-158.4'									
																				159																																																																																																			
																				160																																																																																																			
																				160																																																																																																			
																				161																																																																																																			
HQ										34										2.5										2.0										0.0										80										0										160																																								dolomite band @ 158.9-159.0'									
																				161																																																																																																			
																				162																																																																																																			
																				163																																																																																																			
																				164																																																																																																			
HQ										35										2.5										1.2										0.0										48										0										161																																								BRECCIA; poorly indurated to indurated claystone matrix; gray; slightly weathered; weak; low hardness; w/clasts of claystone; gray; fresh; strong; hard; (Salina Group - Unit F).									
																				162																																																																																																			
																				163																																																																																																			
																				164																																																																																																			
																				165																																																																																																			

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C3

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)		TOTAL DEPTH 273.7 (feet)	
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 08/12/07	
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY Bonnie/Ang/Mass										CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer	
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS				REMARKS	
										165				416									
										166				415									
HQ	36	2.5	1.5	0.0	60	0				167				414									
										168				413									
										169				412									
HQ	37	2.5	1.2	0.0	48	0				170				411									
										171				410									
HQ	38	2.5	2.0	0.0	80	0				172				409									
										173				408									
										174				407									
HQ	39	2.5	0.0	0.0	4	0				175				406									
										176				405									
										177				404									
HQ	40	2.5	1.0	0.5	40	20				178				403									
										179				402									
HQ	41	2.5	0.0	0.0	0	0				180													

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C3

SHEET 13 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY Bonnie/Ang/Mass										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer									
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET) SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
										180										401																			
										181										400																			
HQ 42 2.5 0.3 0.0 12 0										182										399										dolomite; gray @ 181.5'									
										183										398										dolomite; grayish brown @ 183.0'									
										184										397																			
HQ 43 2.5 0.3 0.0 12 0										185										396										dolomite @ 184.7-185.0' 90°, J, T, No, No, PI, SR @ 184.7-185.0'									
										186										395																			
HQ 44 2.5 0.5 0.0 20 0										187										394										dolomite; brownish gray layers @ 186.5'									
										188										393																			
										189										392																			
HQ 45 2.5 2.1 1.7 84 68										190										391										BRECCIA; indurated claystone matrix; gray; moderately strong; moderately hard; w/clasts of claystone; brownish gray; fresh; moderately strong; moderately hard; & dolomite; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, VN, No, No, PI, SR @ 189.1', 190.3', 190.4', 190.5'									
										191										390																			
HQ 46 2.5 1.0 0.0 40 0										192										389										BRECCIA; poorly indurated limestone matrix; bluish gray; micritic; strong; hard; w/clasts of claystone; brownish gray; fresh; moderately strong; moderately hard; (Salina Group - Unit F). 20°, J, T, No, No, PI, SR @ 191.8' 0°, B, VN, No, No, PI, SR @ 192.1', 192.2', 193.3'									
										193										388																			
										194										387																			
HQ 47 2.5 0.6 0.0 24 0										195										386										BRECCIA; poorly indurated claystone matrix; gray; slightly weathered; weak; low hardness; w/clasts of dolomite; gray; micritic; fresh; moderately strong; moderately hard; (Salina Group - Unit F).									

Core box #9 starts @ 186.0'. Claystone possibly washed out during coring.





## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 14 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4'										GROUND ELEVATION (DATUM) E 4673.8' 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)																																																																																																																																																																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07																																																																																																																																																																															
SAMPLING										LOGGED BY TB Bonnie/Ang/Mass										CHECKED BY EM Dogbey/Bonnie TB										APPROVED BY EM Meyer																																																																																																																																																																															
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brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		199		382		80° J,T,No,No,PI,SR @ 197.0-198.1'		200		381		10° B,T,No,No,PI,SR @ 197.0', 197.4', 197.5', 197.6'		201		380		shale partings @ 197.4'		202		379		grades banded, light gray @ 197.6'		203		378		BRECCIA; indurated limestone matrix; very dark gray; micritic; fresh; strong; hard; w/clasts of claystone; pale yellow; moderately strong; moderately hard; (Salina Group - Unit F).		204		377		0° B,VN,No,No,PI,SR @ 199.5', 199.9'		205		376		10° J,VN,No,No,PI,SR @ 200.6', 200.7'		206		375		0° B,VN,No,No,PI,SR @ 201.4', 201.7'		207		374		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		208		373		0° B,VN,No,No,PI,SR @ 202.3'		209		372		90° J,VN,Ca,Fi,WA,SR @ 201.8-202.3'		210				0° B,VN,No,No,PI,SR @ 204.0', 204.2'						black shale seam @ 204.4-204.5'						LIMESTONE; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F).						0° B,VN,No,No,PI,SR @ 204.7', 205.3'						30° J,VN,No,No,PI,SR @ 207.5'						0° B,VN,No,No,PI,SR @ 208.1', 208.3'						0° B,VN,No,No,PI,SR @ 209.1', 209.4', 209.8'	
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Core box #10 starts @ 203.5'.

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C3

SHEET 15 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI					COORDINATES N 6341.4'					GROUND ELEVATION (DATUM) E 4673.8'					581.1 ft (NAVD 88)					TOTAL DEPTH 273.7 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant					DATE START 07/17/07					DATE FINISHED 08/12/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY TB Bonnie/Ang/Mass										CHECKED BY TB Dogbey/Bonnie					APPROVED BY Meyer				
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
HQ 51 5.0 4.5 2.4 90 48										210				371				0°,B,VN,No,No,PI,SR @ 210.0', 210.1'											
										211		370		fractured @ 211.0-212.0' 0°,B,VN,No,No,PI,SR @ 211.0'															
										212		369																	
										213		368		0°,B,VN,Ca,Fi,PI,SR @ 212.5', 212.55', 212.65', 213.0' 90°,J,VN,Ca,Fi,PI,SR @ 212.6-213.5'															
										214		367																	
HQ 52 5.0 4.6 2.5 92 50										215				366				214.3 DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F) fractured; grading from open at top to filled w/calcite (healed) at bottom; @ 214.6-215.8'											
										216		365		shale parting @ 215.8' some vugs filled w/claystone @ 216.0', 217.0'															
										217		364		LIMESTONE; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F). 80°,J,T,Ca,Fi,PI,SR @ 216.9-218.5'															
										218		363		0°,B,T,Ca,Fi,PI,SR @ 216.5', 216.7', 217.7' 218.0'															
										219		362		dolomite; light yellowish brown @ 218.7-219.1' 80°,J,VN,Ca,Fi,PI @ 218.7-218.9', 218.95-219.1'															
HQ 53 3.0 2.3 1.5 77 50										220				361				shale partings @ 219.5' 0°,B,VN,No,No,PI,SR @ 220.0'										Core box #11 starts @ 218.5'.	
										221		360		BRECCIA; indurated limestone matrix; very dark gray; w/clasts of dolomite; light brownish gray; (Salina Group - Unit F). 45°,J,VN,Ca,Fi,PI,SR @ 220.5' 90°,J,VN,Ca,Fi,PI,SR @ 221.0-221.4'															
										222		359		LIMESTONE; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F). 0°,B,T,Ca,Sp,PI,SR @ 222.3', 224.4'															
										223		358		0°,B,VN,Ca,Fi,PI,SR @ 222.7', 222.9', 223.1', 223.3' fragmented @ 222.9-223.1'															
										224		357		30°,J,T,Ca,Fi,PI,SR @ 224.35-224.4 60°,J,VN,Ca,Fi,PI,R @ 224.7-225.0'															
										225				357															

# BLACK & VEATCH

# BORING LOG

**BORING NO. CB-C3**

**SHEET 16 OF 19**

CLIENT						PROJECT				PROJECT NO.		
Detroit Edison						Fermi 3 COL Application				147483		
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH			
Monroe, MI			N 6341.4'			E 4673.8'			581.1 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED		
Gravel parking lot						Plant		07/17/07		08/12/07		
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY		
						Bonnie/Ang/Mass		Dogbey/Bonnie		Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	55	5.0	1.9	0.0	38	0	225		356		10°, J,T,Ca,Fi,PI,SR @ 224.9-225.0'	
							226		355		fractured @ 225.5-226.0'	
							227		354			
							228		353			
			228.5				229		352		fractured @ 228.5-229.0	
HQ	56	5.0	2.9	0.4	58	8	230		351		0°, B,VN,Ca,Sp,PI,SR @ 230.1', 230.25'	
							231		350		0°, B,VN,Ca,Sp,PI,SR @ 230.8', 230.95'	
							232		349		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B,VN,Ca,Sp,PI,SR @ 231.85', 232.3', 232.7', 233.2'	
							233		348		90°, J,T,Ca,Fi,Sp,SR @ 231.9-232.25', 233.1-233.5' 45°, J,T,Ca,Fi,Sp,SR @ 232.3-232.45'	
			233.5				234		347		fractured @ 232.3-232.5' fractured @ 232.7-232.9'	
							235		346			
HQ	57	5.0	2.9	0.0	58	0	236		345		CLAYSTONE; gray; micritic; highly weathered; very weak; low hardness; (Salina Group - Unit F).	
							237		344		LIMESTONE; very dark gray; micritic; fresh; strong; hard; pitted; (Salina Group - Unit F). 0°, B,T,No,No,PI,SR @ 236.7', 237.25', 237.4', 237.5', 237.75', 238.0', 238.1'	
							238		343		40°, J,T,No,No,PI,SR @ 237.6-237.7'	
							239		342		dolomite; gray @ 238.1-238.5'	
			238.5				240		342		0°, B,T,No,No,PI,SR @ 239.3', 239.6', 239.8', 240.4', 240.7'	
												Water level @ 25.3' prior to drilling on 08/12/07.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C3

SHEET 17 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6341.4'										GROUND ELEVATION (DATUM) E 4673.8' 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07																																																																															
SAMPLING										LOGGED BY Bonnie/Ang/Mass										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																															
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																						
HQ										58										5.0										4.5										3.3										90										66										240										341										dolomite band @ 239.5-239.6'										Core box #12 starts @ 240.7'.									
HQ										59										5.0										4.9										2.75										98										55										241										340										BRECCIA; indurated limestone matrix; very dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).																			
HQ										60										5.0										4.3										2.75										86										55										242										339										DOLOMITE; (Salina Group - Unit F). 80° J, VN, No, No, PI, SR @ 241.1-241.3' 0°, B, T, No, No, PI, SR @ 241.45'																			
HQ										61										5.0										4.3										2.75										86										55										243										338										BRECCIA; indurated limestone matrix; very dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).																			
HQ										62										5.0										4.3										2.75										86										55										244										337										dolomite band (large clasts) @ 242.5-242.6' 0°, B, T, No, No, PI, SR @ 242.65' 0°, B, VN, No, No, PI, SR @ 243.8', 244.1', 244.7', 245.0', 245.2'																			
HQ										63										5.0										4.3										2.75										86										55										245										336										dolomite clasts grade very pale brown @ 244.4'																			
HQ										64										5.0										4.3										2.75										86										55										246										335										DOLOMITE; very pale brown; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). 0°, B, VN, No, PI, SR @ 245.4', 245.5' limestone @ 246.2-246.6'																			
HQ										65										5.0										4.3										2.75										86										55										247										334										DOLOMITE; very pale brown; micritic; fresh; strong; hard; w/shale partings & fossils; (Salina Group - Unit E). shale partings @ 246.6' 0°, B, VN, No, No, PI, SR @ 246.7', 246.8', 247.0', 247.5' shale partings - 0°, B, VN, Sp, PI, SR @ 247.2', 247.3', 247.9'																			
HQ										66										5.0										4.3										2.75										86										55										248										333										90° J, VN, No, No, PI, SR @ 248.3'-248.5', 249.3-249.55' 0°, B, T, No, No, PI, SR @ 248.6', 248.7', 249.2' fractured @ 248.7-249.0'; 249.1-249.3' 20°, J, T, No, No, PI, SR @ 249.0-249.1' 0°, B, T, No, No, PI, SR @ 249.55', 249.6', 250.2', 250.55'																			
HQ										67										5.0										4.3										2.75										86										55										249										332										0°, B, T, No, No, PI, SR @ 250.9', 251.1'																			
HQ										68										5.0										4.3										2.75										86										55										250										331										0°, B, T, No, No, PI, SR @ 252.2'																			
HQ										69										5.0										4.3										2.75										86										55										251										330										0°, B, T, No, No, PI, SR @ 254.1', 254.65'																			
HQ										70										5.0										4.3										2.75										86										55										252										329																													
HQ										71										5.0										4.3										2.75										86										55										253										328																													
HQ										72										5.0										4.3										2.75										86										55										254										327																													
HQ										73										5.0										4.3										2.75										86										55										255										326																													

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C3

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																															
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HQ	61	5.0	4.8	4.4	96	88	255		326		shale parting @ 255.45' 0°,B,T,No,No,PI,SR @ 255.6', 255.8'  60°,J,T,No,No,PI,SR @ 257.3-257.7'										Core box #13 starts @ 255.6'.																																																																														
							256		325																																																																																										
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HQ	62	5.0	4.2	2.75	84	55	261		320																																																																																										
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							264		317																																																																																										
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HQ	63	5.0	5.0	3.7	100	74	266		315																																																																																										
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**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C3

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
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HQ	64	5.0	5.0	4.4	100	88	270						0°,B,T,No,No,Pl,SR @ 269.6', 269.7' grades gray @ 270.2'		0°,B,T,No,No,Pl,SR @ 270.3'	Core box #14 starts @ 270.5'.  DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/gypsum bands & nodules; (Salina Group - Unit E). grades gray @ 272.1' 0°,B,T,No,No,Pl,SR @ 272.1', 272.7' grades grayish brown @ 272.8' gypsum bands & nodules @ 272.9-273.4'																																																																																													
							271					0°,B,T,No,No,Pl,SR @ 270.85', 271.6'																																																																																																	
							272																																																																																																						
							273																																																																																																						
							274									Bottom of boring @ 273.7'. Water level @ 24.5' @ completion of drilling. Boring backfilled w/ bentonite chips on 09/21/07.																																																																																													
							275																																																																																																						
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**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C4

SHEET 1 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6230.3' E 4663.3'				GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)				TOTAL DEPTH 133.5 (feet)	
SURFACE CONDITIONS Gravel parking lot						COORDINATE SYSTEM Plant			DATE START 07/17/07		DATE FINISHED 08/08/07		
SAMPLING						LOGGED BY TB ECA TB for Bonnie/Ang/Mass			CHECKED BY TB Dogbey/Bonnie			APPROVED BY Meyer E.M.	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0				COBBLES with Gravel & Sand - About 65% angular to elongated, very hard cobbles w/max. size 12"; 20% fine to coarse, angular, hard gravel w/max. size 3"; 15% fine to coarse, angular, hard sand; about 5% fines; gray; dry; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
			2.0				1		580				
							2		579			Below 2.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	
S	1					NR	3		578				
							4		577				
							5		576				
							6		575				
			6.5				7		574				
							8		573				
							9		572				
S	2					NR	10		571				
							11		570			Discrete sample S02A collected @ 10.5-11.5'.	
							12		569				
							13		568				
							14		567		Lean CLAY (CL) - About 100% LL=45, PL=16, no dilatancy, high dry strength fines; olive gray; firm; moist; no reaction w/HCl; homogeneous	Discrete sample S02B collected @ 13.0-14.0'. Set nominal 6" temporary steel casing to 13.5'. Hole was	
			14.0				15		566		Lean CLAY (CL) - About 87 to 88%, LL=32, PL=16,		

**BLACK & VEATCH****BORING LOG****BORING NO. CB-C4****SHEET 2 OF 10**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																												
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## BORING LOG

BORING NO. CB-C4

SHEET 3 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6230.3'		GROUND ELEVATION (DATUM) E 4663.3'		580.8 ft (NAVD 88)		TOTAL DEPTH 133.5 (feet)		
SURFACE CONDITIONS Gravel parking lot						COORDINATE SYSTEM Plant		DATE START 07/17/07		DATE FINISHED 08/08/07		
SAMPLING						LOGGED BY Bonnie/Ang/Mass		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							30					nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled SC1. Set nominal 6" temporary steel casing to 30.4'. Boring open to 30.5'.
HQ	1	3.0	3.0	0.5	100	17	31		550		DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90° J,Ca,Pa,WA,SR @ 30.5-31.5' 70° J,Cl,Pa,PI,Slk @ 30.8-31.1' 90° J,Cl,Pa,WA,SR @ 31.1-32.4' 0° B,UK,Fi,PI,SR @ 31.6', 31.8', 32.1', 32.8', 33.3'	
							32		549		highly fractured @ 32.4-32.7' 90° J,Ca,Pa,PI,SR @ 32.4-32.7' (2 joints) 90° J,Cl,Pa,PI,SR @ 32.8-33.4' 90° T,No,No,PI,SR @ 32.9-33.5'	
							33		548			
							34		547		DOLOMITE; argillaceous; grayish brown & light brownish gray, banded; micritic; fresh; strong; very hard; w/thin shale partings & closely spaced stylolites; (Bass Islands Group). 90° J,Ca,Pa,PI,SR @ 34.5-34.9' highly fractured @ 34.9-35.9'	Below 30.5', continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.5'. Water level @ 14.5' prior to drilling on 08/02/07.
HQ	2	5.0	5.0	1.2	100	24	35		546			
							36		545		90° J,No,No,PI,SR @ 35.8-36.4' (2 joints)	
							37		544		DOLOMITE; argillaceous; grayish brown; very fine grained (crystalline); fresh; strong; very hard; w/ stylolites; trace shale partings; (Bass Islands Group). 80° J,T,No,No,PI @ 36.5-36.8' 90° J,No,No,PI,SR @ 36.8-37.0' 90° J,pyrite/Ca,Pa,WA,SR @ 37.5-38.0'	
							38		543		60° J,Ca,Pa,PI,SR @ 38.0-38.2' 70° J,Cl,Pa,PI,SR @ 38.3-38.5'	
							39		542		gray @ 38.5' 90° J,T,Cl,Pa,WA,SR @ 38.5-39.6' shale partings - 0° B,PI,SR @ 39.0', 39.3', 39.6'	
							40		541			
HQ	3	5.0	5.0	2.3	100	46	41		540		highly fractured @ 40.0-40.2' 90° J,VN,No,No,PI @ 40.2-40.5' (2 joints) 90° J,No,No,WA,SR @ 40.7-41.0'	
							42		539		20° J,No,No,PI,SR @ 41.7', 41.8'	
							43		538		DOLOMITE; gray; pitted (pits < .02"); very fine grained (crystalline); slightly weathered; very strong; hard; (Bass Islands Group).	
							44		537			Core box #2 starts @ 43.5'.
							45		536			

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# BORING LOG

**BORING NO. CB-C4**

SHEET 4 OF 10

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6230.3'					E 4663.3'					580.8 ft (NAVD 88)		133.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		08/08/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										TB ECA TB for Bonnie/Ang/Mass					FBI TB Dogbey/Bonnie					Meyer TM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	4	5.0	4.7	1.6	94	32		45		535		DOLOMITE; dark grayish brown; micritic; fresh; strong; very hard; vuggy/pitted, pits/vugs (0.05-1.2"); larger vugs filled w/calcite and anhydrite; (Bass Islands Group). 80°, J, No, No, PI, R @ 45.0-45.4' 10°, J, No, No, PI, R @ 45.1' 50°, J, No, No, PI, R @ 45.3-45.5' 20°, J, UK, Fi, PI, R @ 46.1-46.2' highly fractured @ 46.5-46.8' grades light brownish gray @ 46.8-53.7' 90°, J, Ca, Pa, PI, SR @ 46.9-47.6' 75°, J, Ca, Pa, PI, SR @ 47.5-48.0' 60°, J, Ca, Pa, PI, SR @ 47.9-48.1'									
			48.5					46		534											
								47		533											
								48		532											
								49		531											
HQ	5	5.0	5.0	5.0	100	100		50		530		30°, J, anhydrite, Fi, PI, SR @ 49.0-49.3'; joint contains large anhydrite crystals (0.4-1.2"); anhydrite also fills the surrounding vugs									
								51		529		0°, J, UK, Fi, PI, SR @ 50.6'									
								52		528		30°, J, No, No, PI, R @ 51.7-51.8'									
								53		527		30°, J, anhydrite, Fi, PI, SR @ 52.8-52.9', 53.6-53.7'									
			53.5					54		526		brecciated, healed; grayish brown @ 53.6' 0°, J, anhydrite, Fi, PI, SR @ 53.7'									
								55		525		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; some brecciation, healed, up to 1.5" clasts; (Bass Islands Group). 30°, J, T, No, No, Ir, R @ 54.3-54.4', 57.5-57.7'									
HQ	6	5.0	5.0	3.0	100	60		56		524		50°, J, T, No, No, PI, SR @ 55.3-55.5' grades light yellowish brown @ 55.5'									
								57		523		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 56.0-56.5 90°, J, T, No, No, PI, SR @ 56.0-56.5', 56.5-56.9' 0°, B, T, No, No, PI, SR @ 56.0', 56.1', 56.4', 56.5'									
								58		522		DOLOMITE; light gray & dark gray (mottled); micritic; fresh; strong; hard; (Bass Islands Group). shale; very dark gray @ 56.9-57.1'									
			58.5					59		521		DOLOMITE; oolitic; light yellowish brown; very fine grained; fresh; strong; hard; (Bass Islands Group).  20°, J, T, No, No, PI, SR @ 59.5-59.6'									

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C4

SHEET 5 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6230.3' E 4663.3'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 133.5 (feet)																																																																																																																																	
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**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C4

SHEET 6 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6230.3'		GROUND ELEVATION (DATUM) E 4663.3'		580.8 ft (NAVD 88)		TOTAL DEPTH 133.5 (feet)		
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 07/17/07		DATE FINISHED 08/08/07				
SAMPLING				LOGGED BY TB ECA TB for Bonnie/Ang/Mass		CHECKED BY TB m for Dogbey/Bonnie		APPROVED BY E-m Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	11	5.0	5.0	4.7	100	94	75		505			
							76		504		breccia, healed, thin bedded @ 76.5-76.9'	
							77		503		45°, J,T,No,No,Ir,R @ 76.8-77.0', 77.2-77.4'	
							78		502		BRECCIA; healed; (Bass Islands Group)	
							79		501		80°, J,T,No,No,PI,SR @ 78.0-78.2'	
							80		500		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group).	
							81		499		0°, B,VN,No,No,PI,SR @ 79.4'	
							82		498		dolomite; argillaceous; grayish brown; micritic; fresh; strong; hard @ 79.8-80.0'	
							83		497		30°, J,VN,UK,Fi,PI,SR @ 79.95-80.1'	
							84		496		shale partings - 0°, B,VN,PI,SR @ 80.0', 80.9'	
							85		495		0°, B,T,No,No,PI,SR @ 81.5', 82.3'	
							86		494		65°, J,T,No,No,PI,SR @ 81.5-81.95'	
							87		493		90°, J,T,No,No,WA,R @ 82.1-82.4'	
							88		492		shale partings - 0°, B,VN,PI,SR @ 82.5', 82.9'	
							89		491		10°, B,T,No,No,PI,SR @ 83.2'	
							90				0°, J,VN,No,No,Ir,SR @ 83.4'	
											DOLOMITE; argillaceous; dark gray & light gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	
											SHALE; (Bass Islands Group).	
											brecciated, healed @ 84.3-84.8'	
											DOLOMITE; argillaceous; dark gray & light gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	
											0°, B,T,No,No,PI,SR @ 84.4', 84.9'	
											DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
											70°, J,VN,anhydrite,Sp,PI,R @ 84.9-85.3', 86.0-86.3' banded @ 84.9-86.0'	
											shale band @ 85.0-85.1'	
											shale partings - 0°, B,VN,PI @ 85.5	
											anhydrite filled vugs @ 86.0-86.5'	
											85°, J,T,UK,Sp,PI,SR @ 87.0-88.5'	
											90°, J,T,No,No,PI,SR @ 88.5-89.4'	
											0°, B,J,T,No,No,PI,SR @ 88.7', 89.1', 89.3'	
											grades light grayish brown @ 88.8'	

**BLACK & VEATCH**

## BORING LOG

BORING NO. CB-C4

SHEET 7 OF 10

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6230.3'					E 4663.3'					580.8 ft (NAVD 88)		133.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		08/08/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Ang/Mass					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
HQ	14	5.0	5.0	3.0	100	60		90				10° J,VN,Ci,Sp,WA,SR @ 90.7' 70° J,T,No,No,PI,SR @ 90.7-91.0' shale partings @ 91.0' shale partings - 0° B,VN,WA,SR @ 91.2',91.3',91.5', 91.6' pitted @ 91.2-91.3' 0° B,T,No,No,PI,SR @ 91.8' anhydrite filled healed fracture @ 92.0-92.3' shale parting @ 92.2' 0° B,T,No,No,PI,SR @ 93.0'									
			93.5					91													
								92													
								93													
								94													
								95													
HQ	15	5.0	4.6	1.7	92	34		96				argillaceous @ 93.6-93.7' 0° B,T,No,No,PI,SR @ 93.7', 93.8', 93.9', 94.3' 90° J,T,No,No,PI,SR @ 93.7-93.9' convoluted bedding @ 94.2-94.7' 0° B,T,No,No,PI,SR @ 94.3' 0° B,T,No,No,PI,SR @ 94.9',95.1',95.3'					Core box #6 starts @ 93.5'				
								97													
								98													
								99													
								100													
HQ	16	5.0	5.0	2.9	100	58		101				DOLOMITE; gray; micritic; fresh; strong; hard; massive; w/stylolites; (Bass Islands Group). 30° J,T,No,No,PI,SR @ 98.9-99.1', 99.2-99.4' 0° B,T,No,No,PI,SR @ 99.5', 99.9',100.1',100.2', 100.3', 100.4', 101.2', 101.3' 90° J,T,No,No,PI,SR @ 100.3-100.4'									
								102													
								103													
								104													
								105													

**BLACK & VEATCH**

## BORING LOG

**BORING NO. CB-C4**

SHEET 8 OF 10

CLIENT				PROJECT				PROJECT NO.																																											
Detroit Edison				Fermi 3 COL Application				147483																																											
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)																																											
Monroe, MI				N 6230.3' E 4663.3'				580.8 ft (NAVD 88)																																											
SURFACE CONDITIONS				COORDINATE SYSTEM				DATE START																																											
Gravel parking lot				Plant				07/17/07																																											
DATE FINISHED								08/08/07																																											
SAMPLING				LOGGED BY				CHECKED BY				APPROVED BY																																							
				Bonnie/Ang/Mass				Dogbey/Bonnie				Meyer																																							
SAMPLE TYPE				SAMPLE NUMBER				SET 6 INCHES				2ND 6 INCHES				3RD 6 INCHES				N VALUE				SAMPLE RECOVERY																											
CORING				CORE SIZE				RUN NUMBER				RUN LENGTH				RUN RECOVERY				RQD RECOVERY				PERCENT RECOVERY				RQD																							
				DEPTH (FEET)				SAMPLE TYPE				ELEVATION (FEET)				GRAPHIC LOG				CLASSIFICATION OF MATERIALS				REMARKS																											
HQ				17				5.0				4.8				2.7				96				54				105				shale partings - 0°,B,T,PI,SR @ 104.7',105.5',105.6'				Core box #7 starts @ 108.5'.															
																												106				80°,J,T,No,No,PI,SR @ 105.55-106.6'																			
																																107								shale parting - 0°,B,T,PI,SR @ 106.6'											
																																								108				shale parting - 0°,B,T,PI,SR @ 107.9'							
																																								109				shale partings - 0°,B,VN,PI,SR @ 108.7',108.9'							
																																								110				grades grayish brown @ 109.5'							
HQ				18				5.0				4.9				3.1				98				62				111				470																			
																																								112				10°,J,T,No,No,PI,SR @ 112.0'							
																																								113				20°,J,T,No,No,PI,SR @ 112.1'							
																																								114				30°,J,T,anhydrite,Sp,PI,SR @ 112.2-112.3'							
																																				115				80°,J,T,No,No,PI,SR @ 112.7-113.2'											
																																				116				0°,B,T,No,No,PI,SR @ 112.7', 112.8', 113.3'											
																																				117				90°,J,T,anhydrite,Sp,PI,SR @ 113.5-115.0'											
																																								118				70°,J,T,No,No,PI,SR @ 114.7-114.9'							
																																								119				shale partings - 0°,B,VN,PI,SR @ 115.3',115.7',116.0'							
																																								120				40°,J,T,No,No,PI,SR @ 116.0-116.1'							
																																												119.1				DOLOMITE; argillaceous; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).			
																																												119.6				DOLOMITE; grayish brown & gray, banded; micritic; fresh; strong; hard; (Salina Group - Unit F).			

# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C4

**SHEET 9 OF 10**

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C4

SHEET 10 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																														
PROJECT LOCATION Monroe, MI										COORDINATES N 6230.3' E 4663.3'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 133.5 (feet)																				
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/08/07																				
SAMPLING										LOGGED BY E.A. TTB for Bonnie/Ang/Mass										CHECKED BY J. F. TTB Dogbey/Bonnie										APPROVED BY Meyer f.m																				
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																												
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG																																															
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																												
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG																																															
										135																				backfilled w/ bentonite chips on 09/13/07.																				
										136																																								
										137																																								
										138																																								
										139																																								
										140																																								
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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C5

SHEET 1 OF 9

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6123.0' E 4663.4'					GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot, northeast corner					COORDINATE SYSTEM Plant					DATE START 07/17/07				
					DATE FINISHED 07/28/07									
SAMPLING					LOGGED BY EAM Mass/Ang/Grainger					CHECKED BY im for Dogbey/Bonnie				
					APPROVED BY EAM Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							0		581		Well-graded GRAVEL with Sand (GW) - About 70% fine to coarse, angular to subrounded, hard gravel w/ max. size 3"; about 25% fine to coarse, angular to subangular, hard sand; about 5% angular, hard cobbles w/max. size 4"; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.		
							1		580					
							2		579					
							3		578					
							4		577					
							5		576					
							6		575		Well-graded GRAVEL with Silt and Sand (GW) - About 75% fine to coarse, angular to subrounded, hard gravel w/max. size 3"; about 15% fine to coarse, angular to subangular, hard sand; about 10% low plasticity, low toughness, rapid dilatancy, low dry strength fines; brown; weak reaction w/HCl; (Fill).	Stopped vacuum excavation @ 6.0'. Hole caved to 1.9'. Continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S01A collected from S-1.		
S	1		6.0			NR	7		574					
							8		573					
							9		572					
							10		571		Well graded GRAVEL with Sand (GW) - About 70% fine to coarse, angular to subrounded, hard gravel w/ max. size 3"; about 25% fine to coarse, angular to subangular, hard sand; about 5% angular, hard cobbles w/max. size 4"; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Set nominal 6" temporary steel casing to 10.0'. Below 10.0' continued w/NWJ rods and 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Approximately 100 gallons drilling fluid loss @ 11.5'. Below 11.5' continued w/4" ID		
SPT	2	7	9	3	12	0.8	11		570					
							12		569					
							13		568		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; olive gray; soft to firm; moist; homogeneous; (Lacustrine Deposit).			
S	3		11.5			2.3	14		567					
							15		566					



**BLACK & VEATCH**

# **BORING LOG**

**BORING NO. CB-C5**

**SHEET 2 OF 9**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6123.0' E 4663.4'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										TOTAL DEPTH 131.0 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot, northeast corner										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 07/28/07																																																																															
SAMPLING										LOGGED BY TBC for BO for Mass/Ang/Grainger										CHECKED BY TBC for Dogbey/Bonnie										APPROVED BY SM Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																						
TW										4										15.0										1.7										15										566																				Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; hard; moist; (Glacial Till).										sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Set nominal 6" temporary steel casing to 12.3'. PP = 1.25 TSF @ 13.0'. Discrete sample S3A collected @ 14.5-15.0'. Below 15.0' continued w/NWJ rods w/4 1/2" tricone bit using bentonite mud as drilling fluid. PP = 3.25-3.75 TSF @ 17.5'. PP > 4.5 TSF @ 20.0'. Thin walled tube for TW-6 slipped off connecting rods into hole; TW-6 retrieved by overdrilling w/ sonic rig. Below 22.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S7A collected from 23.5-24.0'. PP > 4.5 TSF for S7. Below 24.5' continued w/NWJ rods w/4 1/2" tricone bit using bentonite mud as drilling fluid. Approximately 200 gallons drilling fluid lost @ 24.5'.																													
TW										5										15.0										1.8										16										565																				Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; trace fine to coarse, subrounded sand; trace fine to coarse, subrounded gravel w/max. size 1/2", fractured w/2 hammer blows; olive brown; hard; moist; (Glacial Till).																																							
TW										6										NR										17										564																																																																					
S										7										22.5																				18										563																				Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded, hard gravel, w/max. size 2 1/2"; about 10% fine to coarse, subrounded sand; dark gray; hard; moist; (Glacial Till). 4" cobble @ about 23.5'.																																							
																																								19										562																																																											
																																								20										561																																																											
																																								21										560																																																											
																																								22										559																																																											
																																								23										558																				DOLOMITE; weathered																																							
																																								24										557																																																											
																																								25										556																																																											
																																								26										555																																																											
																																								27										554																				DOLOMITE; light brownish gray; crystalline; micritic; fresh; strong; hard; (Bass Islands Group).																																							
																																								28										553																																																											
																																								29										552																																																											
																																								30										551																																																											

CLIENT		PROJECT		PROJECT NO.								
Detroit Edison		Fermi 3 COL Application		147483								
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)								
Monroe, MI		N 6123.0' E 4663.4'		581.0 ft (NAVD 88)								
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START								
Gravel parking lot, northeast corner		Plant		07/17/07								
SAMPLING		LOGGED BY		CHECKED BY								
MASS/ANG/GRAINER		MASS/ANG/GRAINER		DOGBEY/BONNIE								
APPROVED BY		APPROVED BY		APPROVED BY								
MEYER		MEYER		MEYER								
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	1	5.0	5.0	0.8	100	16	30		551			Refusal to tricone bit @ 26.5'. Below 26.5' continued w/4" ID sonic sampler w/ nominal 6" temporary steel casing advanced w/sampler. Set nominal 6" temporary steel casing to 30.7'. Sonic core stored in box labeled SC1. Hole opened to 31.0'. Below 31.0' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Core box #1 starts @ 31.0'.
			31.0				31		550		DOLOMITE; grayish brown; crystalline; micritic; slightly weathered; strong; hard; thin bedded; (Bass Islands Group). 20° B,MW,UK,Su,PI,R @ 31.2',32.0',32.5',32.8' 80° J,N,No,No,Ir,R @ 32.0-37.8' fractured @ 32.0-34.4'	
							32		549			
							33		548		20° B,MW,UK,Su,PI,R @ 33.1',33.2',33.4',33.7'	
							34		547		20° B,MW,UK,Su,PI,R @ 34.3'	
							35		546		80° J,N,No,No,Ir,R @ 34.7-35.6' 20° B,MW,UK,Su,PI,R @ 35.0',35.2' fractured @ 35.0-35.5'	
			36.0				36		545		DOLOMITE; white & dark gray, mottled; micritic; fresh; very strong; hard; thin bedded; (Bass Islands Group). 80° J,N,No,No,Ir,VR @ 36.2-37.8',38.2-39.6' 20° B,MW,UK,Su,PI,R @ 37.2' 80° J,N,No,No,Ir,R @ 37.2'	
							37		544			
							38		543		20° B,N,No,No,Ir,R @ 38.2' bedding 0° @ 38.5-39.0'	
							39		542		DOLOMITE; argillaceous; dark grayish brown; pitted; micritic; fresh; slightly weathered; strong; hard; fossiliferous; (Bass Islands Group). 1/4" black shale parting @ 39.0' 20° B,N,No,No,Ir,R @ 39.2'	
							40		541			
			41.0				41		540		0° B,MW,UK,Su,Ir,R @ 40.8',41.0',41.2',41.3',41.4'	
							42		539		20° B,MW,UK,Su,PI,R @ 41.3' 80° J,N,No,No,Ir,VR @ 41.5-42.2'	
							43		538		0° B,MW,UK,Su,Ir,R @ 42.4'	
							44		537			
							45		536			

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C5

SHEET 4 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6123.0'					GROUND ELEVATION (DATUM) E 4663.4'					581.0 ft (NAVD 88)					TOTAL DEPTH 131.0 (feet)				
SURFACE CONDITIONS Gravel parking lot, northeast corner										COORDINATE SYSTEM Plant					DATE START 07/17/07					DATE FINISHED 07/28/07				
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>for GCR Gof</i> Mass/Ang/Grainger					CHECKED BY <i>for TB</i> Dogbey/Bonnie					APPROVED BY <i>Em</i> Meyer				
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS					REMARKS	
PQ 4 5.0 5.0 1.3 100 26										45				536				DOLOMITE; oolitic; light brownish gray; crystalline; fresh; strong; hard; w/stylolites; (Bass Islands Group).						
										46		535		intersecting 90°, J,N,No,No,Ir,R @ 46.0-48.5' 0°, B,N,No,No,Ir,R @ 46.1',46.2',46.5',47.2'										
										47		534												
										48		533		0°, B,N,No,No,Ir,R @ 47.7',47.9', 0°, B,N,No,No,Ir,R @ 48.4',48.8',49.0'										
										49		532												
PQ 5 5.0 5.0 4.3 100 86										50				531				0°, B,N,No,No,Ir,R 49.5' intersecting 90°, J,N,No,No,Ir,R @ 49.8-51.0'					Core box #3 starts @ 49.3'.	
										51		530		DOLOMITE; dark grayish brown; micritic; fresh; slightly weathered; strong; hard; (Bass Islands Group). 0°, B,N,No,No,Ir,R @ 50.0',50.3',50.4'										
										52		529		DOLOMITE; oolitic; light brownish gray; crystalline; fresh; strong; hard; massive; w/argillaceous parting @ depth; massive; (Bass Islands Group). 0.2' black shale band; moderately weathered @ 51.3'										
										53		528		10°, B,N,No,No,PI,R @ 53.4',54.7'										
										54		527		argillaceous parting @ 54.2',54.5'										
PQ 6 5.0 5.0 2.3 100 46										55				526				80°, J,N,No,No,Ir,R @ 54.7',55.0'						
										56		525		DOLOMITE; argillaceous; gray; fresh; strong; hard; banded w/stylolites; (Bass Islands Group). convoluted bedding @ 55.1-57.9' 10°, B,N,No,No,PI,R @ 55.6' 85-90°, J,T,No,No,Ir,R @ 56.0-58.7' 0-5°, B,N,Cl,Su,Ir,R @ 56.1',56.5'										
										57		524		0-5°, B,N,Cl,Su,Ir,R @ 57.6',57.9',58.1'										
										58		523												
										59		522												
										60		521				0-5°, B,N,Cl,Su,Ir,R @ 59.3',59.5' 85-90°, J,T,No,No,Ir,R @ 59.5-61.0'					Core box #4 starts @ 58.8'.			

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C5

SHEET 5 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6123.0'					GROUND ELEVATION (DATUM) E 4663.4'					TOTAL DEPTH 131.0 (feet)									
SURFACE CONDITIONS Gravel parking lot, northeast corner										COORDINATE SYSTEM Plant					DATE START 07/17/07					DATE FINISHED 07/28/07				
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Mass/Ang/Graindel</i>					CHECKED BY <i>Em for TB</i> Dogbey/Bonnie					APPROVED BY <i>sm</i> Meyer				
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS					REMARKS	
PQ 7 5.0 5.0 2.8 100 56										60				521				fractured @ 59.5-63.1' 0-5°, B,N,Ci,Su,Ir,R @ 60.0',60.4',60.7'					No drilling fluid return @ 60.8-61.0'.	
										61		520		85-90°, J,N,No,No,Ir,VR @ 60.8-63.1' 0-5°, B,UK,Sp,WA,R @ 61.3',61.4',61.7',61.9',62.4'										
										62		519												
										63		518		0-5°, B,UK,Sp,WA,R @ 62.6',62.8',63.1'										
PQ 8 5.0 5.0 3.5 100 70										64				517				DOLOMITE; brecciated; grayish brown; fresh; strong; hard; healed w/calcite; pitted in areas; (Bass Islands Group).					Core box #5 starts @ 67.6'.	
										65		516												
										66		515												
										67		514		60°, J,MW,No,No,Ir,VR @ 67.0',67.2',67.4'										
PQ 9 5.0 5.0 4.0 100 80										68				513				0-5°, J,No,No,Ir,VR @ 69.2',69.8'						
										69		512												
										70		511		0-5°, J,No,No,Ir,VR @ 70.3' 0°, B,W,Ci,Fi,Ir,VR @ 70.5'										
										71		510												
										72				509				DOLOMITE; light gray; fresh; very strong; hard; banded; w/stylolites; (Bass Islands Group). 60°, J,MW,No,No,Ir,VR @ 71.7' 0°, B,MW,No,No,WA,R @ 71.8',72.0',72.7',73.0',73.3'						
										73		508												
										74		507		0°, B,MW,No,No,WA,R @ 74.0',75.0',75.5'										
										75		506												

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C5

SHEET 6 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6123.0' E 4663.4'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										TOTAL DEPTH 131.0 (feet)													
SURFACE CONDITIONS Gravel parking lot, northeast corner										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 07/28/07													
SAMPLING										LOGGED BY Mass/Ang/Grainger										CHECKED BY TB Dogbey/Bonnie										APPROVED BY EM Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
PQ		10		5.0		5.0		2.8		100		56		75				506																									
				76.0										76				505				85-90°, J,N,No,No,Ir,R @ 76.0' 0°, B,N,Sp,Pl,R @ 76.2'																				Core box #6 starts @ 76.2'.	
														77				504				0°, B,N,Sp,Pl,R @ 77.4', 77.5' 0°, B,N,Sp,Pl,R @ 77.9, 78.2'																					
														78				503																									
														79				502				SHALE; dark gray; slightly weathered; strong; moderately hard; weathered to soft clay seam @ top; (Bass Islands Group). 0°, B,N,Sp,Pl,R @ 78.5'																					
														80				501				DOLOMITE; dark gray; fresh to slightly weathered; very strong; hard; banded w/stylolites & argillaceous partings; (Bass Islands Group). fractured @ 79.1-79.4' 0°, B,N,Sp,Pl,R @ 79.0' 80°, J,N,H,No,Ir,VR @ 80.0', 81.0' 0°, B,N,Sp,Pl,R @ 80.0'																				Soft material @ 79.5-81.0'.	
				81.0										81				500																									
														82				499				80°, J,N,H,No,Ir,VR @ 81.8'																					
														83				498				0-5°, B,MW,No,No,Ir,R (solutioned) @ 82.7' 0-5°, B,W,Cl,Pa,Ir,R @ 83.3'																					
														84				497				0-5°, B,MW,No,No,Ir,R (solutioned) @ 83.9'																					
														85				496																									
														86				495				0-5°, B,MW,No,No,Ir,R (solutioned) @ 85.5', 85.7'																					
				86.0										87				494				85-90°, J,T,H,Ir @ 86.3-86.7'																				Core box #7 starts @ 86.0'.	
														88				493				SHALE; dark gray; (Bass Islands Group). shale parting weathered to residual soil; hard; moist @ 87.9'																					
														89				492				DOLOMITE; dark gray; fresh to slightly weathered; very strong; hard; banded w/stylolites & argillaceous partings; (Bass Islands Group). 0-5°, B,MW,No,No,Ir,R (solutioned) @ 88.1', 88.2', 88.3'																					
PQ		12		5.0		5.0		3.1		100		62		90				491																									



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C5

SHEET 7 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6123.0' E 4663.4'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										TOTAL DEPTH 131.0 (feet)																																							
SURFACE CONDITIONS Gravel parking lot, northeast corner										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 07/28/07																																							
SAMPLING										LOGGED BY Mass/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																							
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																			
PQ 13 5.0 5.0 2.1 100 42										90 491																				0-5° B,MW,No,No,PI,R (solutioned) @ 88.3',88.5'																																							
										91 490																				85-90° J,T,H,Ir @ 88.8-90.4'																																							
										92 489																				0-5° B,MW,No,No,PI,R (solutioned) @ 89.7'																																							
										93 488																				0-5° B,MW,No,No,PI,R (solutioned) @ 90.0',90.1'																																							
										94 487																				fractured @ 92.1-93.4'																																							
										95 486																				0° B,N,No,No,PI,SR @ 92.1',92.3',92.4',92.5',92.6', 92.7', 92.75',92.9',93.0',93.05',93.1',93.2',93.4'																																							
										96 485																				60° J,T,No,No,Ir,R @ 92.3', 92.7'																																							
										97 484																				90° J,T,No,No,Ir,R @ 92.6-93.4', 94.0-94.3'																																							
										98 483																				0° B,N,No,No,PI,SR @ 94.0',94.3',94.35'																																							
										99 482																				DOLOMITE; gray; crystalline; micritic; fresh; very strong; hard; medium to thick bedded; (Bass Islands Group).																																							
										100 481																				0° B,N,No,No,PI,SR @ 94.7',94.8',95.3',95.5'																																							
										101 480																				90° J,T,No,No,Ir,R @ 95.5-96.5' (2 intersecting)																																							
										102 479																				1/2" shale band; partly weathered to soft white clay @ 96.4'																																							
										103 478																				0° B,T,No,No,PI,SR @ 96.7', 96.8', 97.1'																																							
										104 477																				60° J,T,No,No,PI,SR @ 96.8'																																							
										105 476																				90° J,N,No,No,Ir,R @ 97.1-98.3', 98.7-99.1', 100.8- 101.3'																																							
																														0° B,N,No,No,Ir,SR (solutioned) @ 98.3',99.1',99.2'																																							
																														0° B,N,No,No,Ir,SR (solutioned) @ 100.1'																																							
																														0° B,N,No,No,Ir,SR (solutioned) @ 100.8'																																							
																														0° B,N,No,No,Ir,SR (solutioned) @ 101.4'																																							
																														0° B,N,No,No,Ir,SR (solutioned) @ 102.0',102.3'																																							
																														soft; weathered @ 102.4-103.2'																																							
																														0° B,N,No,No,Ir,SR (solutioned) @ 103.2',103.5'																																							
																														DOLOMITE; argillaceous; dark grayish brown; micritic; fresh; strong; hard; w/argillaceous parting & stylolites; bedding convoluted; (Bass Islands Group).																																							

Core box #8  
starts @ 96.0'.Soft drilling @  
102.4-103.2'.  
Core barrel  
blocked @  
102.4'.  
Core loss @  
102.4-103.5'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. CB-C5

SHEET 8 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6123.0' E 4663.4'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										TOTAL DEPTH 131.0 (feet)																																							
SURFACE CONDITIONS Gravel parking lot, northeast corner										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 07/28/07																																							
SAMPLING										LOGGED BY TBL/GR 606r Mass/Ang/Grainger										CHECKED BY F.M. H.C. TB Dogbey/Bonnie										APPROVED BY E.M. Meyer																																							
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD PERCENT RECOVERY RQD										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																			
PQ 16 5.0 4.6 1.9 92 38										105 476																				60°J (solutioned) @ 105.5-106.0' 0°B,N,No,No,Ir,SR (solutioned) @ 105.6' 80°J,W,Ca,Fi,Ir (solutioned) @ 106.1-107.1'																																							
										106 475																				DOLOMITE; grayish brown; crystalline; slightly weathered; strong; hard; medium bedded; w/stylolites; (Bass Islands Group). 80-90°J,N,No,No,Ir,R @ 106.8-107.3' 0-5°B,W,No,No (solutioned) @ 107.3',107.7',107.9'																																							
										107 474																																																											
										108 473																																																											
										109 472																																																											
										110 471																																																											
										111 470																																																											
PQ 17 5.0 4.4 0.5 88 10										112 469																				DOLOMITE; gray & very dark gray; interbedded w/ shaley DOLOMITE; slightly weathered; strong; moderately hard; (Salina Group - Unit F). 20°J,Ca,Pa,Pl,SR @ 111.6',112.0' 90°J,N,No,No,Ir @ 112.3-113.4' shaley dolomite @ 112.4-113.3; 113.8-114.1' highly fractured @ 112.4-114.6' 0°B,W,Ca,Pa,Ir,R (solutioned) @ 113.2', 113.8'																																							
										113 468																																																											
										114 467																																																											
										115 466																																																											
										116 465																																																											
PQ 18 5.0 1.5 0.0 30 0										117 464																																																											
										118 463																																																											
										119 462																																																											
										120 461																																																											



CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6123.0'					E 4663.4'					581.0 ft (NAVD 88)		131.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot, northeast corner										Plant					07/17/07		07/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Mass/Ang/Grainger					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
							120		461												
			121.0				121		460		DOLOMITE & ANHYDRITE; interbedded material & color; pale brownish gray & white; fresh; moderately strong; moderately hard; w/vugs filled w/anhydrite crystals; (Salina Group - Unit F).										
PQ	19	2.5	2.5	0.5	100	20	122		459		DOLOMITE; gray; micritic; slightly weathered; strong; moderately hard; (Salina Group - Unit F).										
							123		458		LIMESTONE; argillaceous; dark gray; moderately weathered; moderately strong; moderately hard; vuggy; w/bands of clayey dolomite; gray; thin bedded; (Salina Group - Unit F).										
PQ	20	2.5	2.2	0.0	88	0	124		457		clayey dolomite band; highly weathered; w/clay in area; medium toughness, slow dilatancy, high dry strength fines @ 123.5-123.7'					Drill chatter @ 124.0-126.0'.					
			126.0				126		455							Core loss @ 126.0-127.0'.					
							127		454												
PQ	21	5.0	2.6	0.0	52	0	128		453		CLAYSTONE; dolomitic; gray; moderately weathered; weak; low hardness; thin bedded; w/bands of micritic dolomite; (Salina Group - Unit F). fractured @ 127.7-131.0' 90°,J,Ir,R @ 128.0-129.0'										
							129		452												
							130		451												
							131		450							Bottom of boring @ 131.0'. Water level @ 20.2' @ completion of drilling. Piezometer installed on 08/24/07.					
							132		449												
							133		448												
							134		447												
							135		446												

**BLACK & VEATCH****BORING LOG**BORING NO. CST-AB1  
SHEET 1 OF 3

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6577.6' E 4331.1'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				TOTAL DEPTH 30.8 (feet)	
SURFACE CONDITIONS Gravel parking area						COORDINATE SYSTEM Plant		DATE START 08/25/07		DATE FINISHED 08/25/07			
SAMPLING						LOGGED BY TB Bonnie/Grainger		CHECKED BY F.B. J. Dogbey/Bonnie		APPROVED BY Meyer <i>EM</i>			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0		580		<p>COBBLES - About 90% subangular to angular cobbles w/max. size 6"; about 5% fine to coarse gravel; about 5% sand; grayish brown; dry; weak reaction w/HCl; (Fill).</p>	<p>Boring advanced w/vacuum excavation.</p>	
							1		579				
							2		578				
							3		577				
							4		576				
							5		575				
							6		574				
							7		573				
							8		572				
							9		571				
							10		570				
							11		569				
							12		568				
							13		567				
S	1		7.0			1.4	14		566		<p>Organic SOIL with gravel (OL) - About 80% nonplastic, no dilatancy fines; about 20% fine, angular gravel; very dark grayish brown; very soft; moist; no reaction w/HCl;</p>	<p>Discrete sample S-2A collected @ 13.8-14.2'. Discrete sample</p>	
S	2		10.0			3.0	15						

**BLACK & VEATCH****BORING LOG**

BORING NO. CST-AB1

SHEET 2 OF 3

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6577.6' E 4331.1'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 30.8 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 08/25/07										DATE FINISHED 08/25/07													
SAMPLING										LOGGED BY TB Bonnie/Grainger										CHECKED BY TB Dogbey/Bonnie										APPROVED BY S-Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
TW		3				15.0						1.5		15		565		565		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; very dark greenish gray; soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit). grades about 91% LL=54, PL=17 fines; about 9% sand.		S-2B collected @ 14.2-15.0'. Set nominal 6" temporary steel casing to 15.5'. Below 15.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 0.25 TSF @ 17.5'.																					
SPT		4		4		8		10		18		1.4		18		562		562		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium sand; dark grayish brown; very stiff; moist; strong reaction w/HCl; homogeneous; (Glacial Till).		PP > 4.5 TSF @ 21.7'.																					
TW		5										1.2		21		559		559		Drill chatter @ 22.5'.																							
SPT		6		8		12		14		26		NR		26		554		554																									
														27		553		553																									
														28		552		552																									
														29		551		551																									
														30																													



**BLACK & VEATCH****BORING LOG**

BORING NO. CT-E1

SHEET 1 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6061.8' E 4942.6'										GROUND ELEVATION (DATUM) 579.9 ft (NAVD 88)										TOTAL DEPTH 26.5 (feet)																																																																							
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/23/07																																																																							
SAMPLING										LOGGED BY <i>scb</i> Grainger										CHECKED BY <i>TB</i> Dogbey/Bonnie										APPROVED BY <i>EM</i> Meyer																																																																							
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																																																											
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																																																																	
														0								<b>COBBLES</b> - About 60% angular, elongated to cubical, hard cobbles w/max. size 12"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular, hard sand; about 5% fines; light gray; moist; strong reaction w/HCl; homogeneous; (Fill).																				Boring advanced w/vacuum excavation.																																																											
												1																																																																																									
												2																																																																																									
												3																																																																																									
												4																																																																																									
												5																																																																																									
						6.0						6										Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample SC-1 collected from S1.																																																																															
												7																																																																																									
S		1										8																																																																																									
												9																																																																																									
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S		2										3.0		15																																																																																							

**BLACK & VEATCH****BORING LOG**

BORING NO. CT-E1

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6061.8'										GROUND ELEVATION (DATUM) E 4942.6' 579.9 ft (NAVD 88)										TOTAL DEPTH 26.5 (feet)																																																																																																																																					
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/23/07																																																																																																																																					
SAMPLING										LOGGED BY <i>G. Grainger</i>										CHECKED BY <i>EM</i> Dogbey/Bonnie <i>TB</i>										APPROVED BY <i>EM</i> Meyer																																																																																																																																					
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Discrete sample SC-2 collected from S2. Set nominal 6" temporary steel casing to 16.0'. Below 16.0' advanced w/ NWJ rods &amp; 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D50 automatic hammer. PP = 3.25 TSF @ 18.0'. Lost drilling fluid return @ 18.0'.</td> </tr> <tr> <td>Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, rounded, hard sand; brown; very stiff; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</td> <td></td> </tr> <tr> <td>Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 10% angular, fine to coarse, hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</td> <td>TW-5 refusal @ 23.0'. PP &gt; 4.5 TSF @ 23.0'.</td> </tr> <tr> <td></td> <td>Tricone bit refusal @ 26.5'. Bottom of boring @ 26.5'. Water level @ 7.6' @ completion of drilling. Boring caved @ 26.0'. Boring backfilled w/bentonite chips on 08/23/07 to 1.5' bgs then gravel to surface.</td> </tr> </table>										CLASSIFICATION OF MATERIALS	REMARKS	Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & brown, mottled; firm; moist; weak reaction w/HCl; homogeneous; trace fibrous material. fibrous material grades out @ 15.5'	Core barrel dropped in soft clay from 15.0-16.0'. Discrete sample SC-2 collected from S2. Set nominal 6" temporary steel casing to 16.0'. Below 16.0' advanced w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D50 automatic hammer. PP = 3.25 TSF @ 18.0'. Lost drilling fluid return @ 18.0'.	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Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 10% angular, fine to coarse, hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	TW-5 refusal @ 23.0'. PP > 4.5 TSF @ 23.0'.																																																																																																																																																																		
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. EB/TSC-C2

SHEET 1 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6579.3' E 4697.2'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										TOTAL DEPTH 50.5 (feet)																																																							
SURFACE CONDITIONS Level, gravel surface/roadway										COORDINATE SYSTEM Plant										DATE START 06/16/07										DATE FINISHED 08/27/07																																																							
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																							
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S 1										5.0										5.0										5.0										Poorly graded GRAVEL with Cobbles (GP) - About 60% fine to coarse, angular, hard gravel w/max. size 3"; about 20% angular, elongated, hard cobbles w/max. size 12"; about 15% fine to coarse, angular, hard sand; about 5% fines; (Fill).										Boring advanced w/vacuum excavation.																																			
S 2										10.0										4.0										4.0										Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & brown; firm; moist; musty odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).										Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.																																			
S 2										10.0										4.0										4.0										Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & brown; firm; moist; musty odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).										Discrete sample SC2 collected @ 13.5-13.8'.																																			

CLIENT						PROJECT NO.								
Detroit Edison						Fermi 3 COL Application								
PROJECT LOCATION						COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH		
Monroe, MI						N 6579.3'			E 4697.2'			581.4 ft (NAVD 88)		
SURFACE CONDITIONS						COORDINATE SYSTEM			DATE START			DATE FINISHED		
Level, gravel surface/roadway						Plant			06/16/07			08/27/07		
SAMPLING						LOGGED BY			CHECKED BY			APPROVED BY		
						Grafinger/Bonnie/Mass			Emery/Dogbey/Bonnie			Meyer		
CORING						DEPTH (FEET)			SAMPLE TYPE			ELEVATION (FEET)		
CORE SIZE						RUN NUMBER			RUN LENGTH			RUN RECOVERY		
RQD						PERCENT RECOVERY			RQD			REMARKS		
TW						1			15.5			0.9		
SPT						2			7			11		
TW						3			1.6			1.6		
S						4			22.6			1.4		
SPT						5			9			13		
SPT						6			11			16		
S						7			29.0			1.5		
Lean CLAY (CL) - About 90% low plasticity, low toughness, no dilatancy, very high dry strength fines; about 10% fine to coarse, subrounded to angular, hard sand; brown; very soft; moist; weak organic (swampy) odor; strong reaction w/HCl; homogeneous; (Glacial Till).												Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/ NWJ rods & 4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 4.5 TSF @ 17.5'. TV = 0.87 TSF @ 17.5'.		
grades w/ trace fine, angular, hard gravel & wood fragments; brown & yellowish brown; very stiff; no odor; w/fine sand lenses														
Lean CLAY (CL) - About 70% low plasticity, medium toughness, no dilatancy, high dry strength fines; about 25% fine to coarse, subrounded to angular, hard sand; about 5% fine, subangular to angular, hard gravel; dark gray & brown, mottled; hard; moist; strong reaction w/HCl; (Glacial Till). grades w/subangular, very hard, dolomite cobbles w/ max. size 3.5" @ 22.6'												TW3 could not be retrieved. Used sonic rig to retrieve tube. Sonic sample advanced from 22.6-24.0'. Water level @ 16.8' prior to drilling on 08/21/07. Discrete sample S4 collected @ 23.6-23.8'. Below 24.0' continued w/ NWJ rods & 4 1/2" tricone bit using water as drilling fluid.		
Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, subrounded to angular, hard sand; about 5% fine, subangular, hard gravel; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).														
Clayey SAND (SC) - About 75% fine to coarse, subangular to angular, hard sand; about 25% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; light olive brown; hard; wet; strong reaction w/HCl; grades courser w/ depth; (Glacial Till).														
Sandy Lean CLAY (CL) - About 65% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 35% fine to coarse, angular,												Tricone refusal @ 29.0'. Core box #1		





BLACK &amp; VEATCH

## BORING LOG

BORING NO. EB/TSC-C2

SHEET 3 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6579.3' E 4697.2'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										TOTAL DEPTH 50.5 (feet)																															
SURFACE CONDITIONS Level, gravel surface/roadway										COORDINATE SYSTEM Plant										DATE START 06/16/07										DATE FINISHED 08/27/07																															
SAMPLING										LOGGED BY Grainger/TB Bonnie/Mass										CHECKED BY Dogbey/TB Bonnie										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
PQ		1		5.0		5.0		2.3		100		46		30				551				hard sand; gray; hard; wet; strong reaction w/HCl, homogeneous; (Glacial Till).																				starts @ 29.0'. Below 29.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. No drilling fluid return @ 34.0'. Core box #2 starts @ 35.5'.																			
						30.5								31				550				DOLOMITE; gray; micritic; fresh; very strong; hard; highly fractured; (Bass Islands Group).																																							
														32				549				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 90° J,T,No,No,PI,SR @ 30.7-32.3' 0° J,VN,CI,Sp,PI,SR @ 31.4' highly fractured @ 31.8-32.1' shale partings - 0° B,VN,PI,SR @ 32.3',33.5' 90° J,T,No,No,PI,SR @ 32.8-33.5' fractured @ 32.8-33.5'																																							
														33				548				0° J,VN,No,PI,SR @ 34.6'																																							
														34				547																																											
														35				546																																											
						35.5								36				545																																											
														37				544				DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). highly fractured, clay filled @ 37.0-37.1' 70°-80° J,T,No,No,Ir,R @ 37.1-37.8' some scattered vugs, anhydrite filled @ 37.6-38.5' 0° B,VN,No,No,PI,SR @ 37.8' fossils @ 37.8' shale partings - 0° B,VN,PI,SR @ 38.0', 38.8', 39.1', 39.2', 39.5', 39.6', 39.7', 39.8', 39.9' 10° B,VN,No,No,PI,SR @ 38.2' 90° J,T,No,No,PI,SR @ 38.6-39.1'																																							
														38				543																																											
														39				542																																											
														40				541				DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).																																							
						40.5								41				540				90° J,T,No,No,PI,SR @ 41.2-41.4', 42.0-42.7' 0° B,VN,No,No,PI,SR @ 41.2', 41.4' 42.0', 42.5', 42.7', 42.9', 43.4', 44.0' light brownish gray @ 41.6-42.1'																																							
														42				539																																											
														43				538				DOLOMITE; light gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).																																							
														44				537																																											
														45								shale parting - 0° B,VN,PI,SR @ 44.6'																				Core box #3 starts @ 44.2'.																			

**BLACK & VEATCH****BORING LOG**

BORING NO. EB/TSC-C2

SHEET 4 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6579.3' E 4697.2'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										TOTAL DEPTH 50.5 (feet)													
SURFACE CONDITIONS Level, gravel surface/roadway										COORDINATE SYSTEM Plant										DATE START 06/16/07										DATE FINISHED 08/27/07													
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
PQ		4		5.0		4.8		2.7		96		54		45				536				50°, J, VN, No, No, PI, SR @ 44.7-45.0'																					
						45.5								46				535				shale partings - 0°, B, VN, PI, SR @ 46.0', 47.8', 48.1' fractured @ 46.0-46.2'																					
														47				534				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, B, VN, No, No, PI, SR @ 46.2', 47.2' 60°, J, T, No, No, PI, SR @ 46.8-47.0', 46.8-46.9'																					
														48				533				shale parting @ 48.0'																					
														49				532				DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°, B, VN, PI, S @ 48.65', 49.4' brecciated, healed @ 48.8-48.9' mottled @ 49.3-49.5'																					
														50				531				55°, J, T, No, No, PI, SR @ 49.4'-49.5' grades w/stylolites @ 49.5' 40°, J, T, No, No, PI, SR @ 49.9-50.1' 90°, J, T, No, No, PI @ 50.0-50.5' grades mottled @ 50.1'																					
														51																													
														52				530																									
														53				529																									
														54				528																									
														55				527																									
														56				526																									
														57				525																									
														58				524																									
														59				523																									
														60				522																									

Bottom of boring @ 50.5'. Water level @ 14.45' @ completion of drilling. Boring caved @ 49.35'. Piezometer installed on 09/11/07.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. EB/TSC-E3

SHEET 1 OF 9

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6567.3'		GROUND ELEVATION (DATUM) E 4819.5'		581.8 ft (NAVD 88)		TOTAL DEPTH 130.5 (feet)	
SURFACE CONDITIONS Paved street				COORDINATE SYSTEM Plant		DATE START 08/21/07		DATE FINISHED 08/23/07			
SAMPLING				LOGGED BY <i>granger TB for</i> Grainger/Mass		CHECKED BY <i>sm for TB for</i> Dogbey/Mass		APPROVED BY <i>fm</i> Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS				REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
CORING							GRAPHIC LOG				
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)									
0							ASPHALT				Boring advanced w/vacuum excavation.
1		581					COBBLES - About 50% angular, elongated to rounded, very hard cobbles, max size 8"; about 25% fine to coarse, angular, elongated to rounded gravel, max. size 3"; about 15% fine to coarse, angular, hard sand; about 10% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).				
2		580									
3		579									
4		578									
5		577									
6		576									Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample SC1 collected @ 8.0-8.2'.
7		575									
8	S	574				2.5					
9		573									
10		572									
11		571									
12		570									Discrete sample SC2 collected @ 12.9-13.2'.
13		569					Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & brown, mottled; firm; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).				
14	S	568				5.0					
15		567					dark gray, organic lean clay @ 14.0-15.0'				



BLACK &amp; VEATCH

## BORING LOG

BORING NO. EB/TSC-E3

SHEET 2 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6567.3' E 4819.5'										GROUND ELEVATION (DATUM) 581.8 ft (NAVD 88)										TOTAL DEPTH 130.5 (feet)									
SURFACE CONDITIONS Paved street										COORDINATE SYSTEM Plant										DATE START 08/21/07										DATE FINISHED 08/23/07									
SAMPLING										LOGGED BY <i>EB for</i> Grainger/Mass										CHECKED BY <i>EB for</i> Dogbey/Mass										APPROVED BY <i>EB</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																	
TW	3						0.6	15		566		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 5% fine to medium sand; gray & grayish brown, mottled; hard; moist; weak reaction w/HCl; (Glacial Till).										Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/ NWJ rods & 4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 4.0 TSF @ 17.5' TV = 0.6 TSF @ 17.5'																	
SPT	4	6	7	11	18	1.5		16		565		grades brown and gray, banded; homogeneous																											
								17		564																													
								18		563																													
								19		562																													
								20		561																													
TW	5						1.4	21		560		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 30% fine to coarse, subangular to angular, hard sand; light brownish gray; hard; moist; weak reaction w/HCl; homogeneous; (Glacial Till).																											
								22		559																													
								23		558																													
SPT	6	11	16	17	33	1.3		24		557		Sandy Lean CLAY (CL) - About 60% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 35% fine to coarse, subangular to angular, hard sand; about 5% fine, subangular, hard gravel; gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).										PP > 4.5 TSF @ 23.0' TV = 0.67 TSF @ 23.0'																	
								25		556																													
								26		555																													
SPT	7	20	11	13	24	0.5		27		554	Clayey SAND (SC) - About 70% fine to coarse, subangular to angular, hard sand; about 30% medium plasticity, medium toughness, no dilatancy, high dry strength fines; trace fine to coarse, subangular, flat, hard gravel; grayish brown; medium dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).										Spoon blocked while taking SPT 7.																		
								28		553	hydrocarbon odor @ 28.0-28.7'										Below 28.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel																		
S	8						3.0	29		552	DOLOMITE; grayish brown, banded; very fine grained; fresh; very strong; hard; (Bass Islands Group).																												

**BLACK & VEATCH**

## BORING LOG

BORING NO. EB/TSC-E3

SHEET 3 OF 9

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6567.3'					E 4819.5'					581.8 ft (NAVD 88)					130.5 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Paved street										Plant					08/21/07					08/23/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										6/20 for TB for Grainger/Mass					8/22 for TB for Dogbey/Mass					8/22 Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY			DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS														
CORING																													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY		RQD																						
HQ	1	5.0	4.6	3.1	92		62			30																			
			30.5							31		551		DOLOMITE; dark gray; pitted; micritic; fresh to slightly weathered; very strong; hard; w/stylolites in very closely spaced zones; (Bass Islands Group). highly fractured @ 30.8-31.7'	casing advanced w/sampler. Core box #1 starts @ 28.0'. Sonic core S-8 stored in core box #1.														
										32		550			Discrete sample SC3-A collected @ 28.2' for chemical analysis.														
										33		549		20°, J, Cl, Pa, Pl, SR @ 32.7' 20°, J, Cl, Pa, Ir, SR @ 33.0-33.1'	Discrete sample SC3-B collected @ 28.3' for chemical analysis.														
										34		548		DOLOMITE; argillaceous; grayish brown; fresh; very strong; hard; w/thin shale partings; (Bass Islands Group). 0°, B, Cl, Fi, Pl, SR @ 33.6'	Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Partial core loss @ 30.8-31.7'.														
										35		547																	
			35.5							36		546		vuggy @ 36.1-36.2' stylolites @ 36.5-39.4' 0°, B, UK, Fi, Pl, SR @ 36.6', 37.7' 90°, J, No, No, Pl, SR @ 36.6-36.7', 37.6-37.7' shale partings - 0°, B, Pl, SR @ 36.7', 36.9', 37.4', 37.5', 38.6', 39.4' 80°, J, T, Pl @ 37.0-37.4' closely to very closely spaced stylolites @ 37.9-38.3'															
HQ	2	5.0	5.0	4.0	100		80			37		545																	
										38		544																	
										39		543		90°, J, VC, WA @ 38.9-39.4'															
										40		542		90°, J, No, No, Pl, SR @ 39.5-39.8', 39.9-40.4' 90°, J, T, WA @ 39.6-40.4'															
			40.5							41		541		DOLOMITE; grayish brown, banded; micritic; fresh to slightly weathered; very strong; very hard; w/shale partings; (Bass Islands Group). closely spaced stylolites @ 40.5-40.9' highly fractured @ 40.5-40.6' 80°, J, UK, Fi, Ir, SR @ 40.9-42.3' 0°, B, No, No, Pl, SR @ 40.9' 60°, J, No, No, Pl, SR @ 41.5-41.8' 90°, J, No, No, Pl, SR @ 41.6-42.0'															
										42		540																	
										43		539		70°, J, No, No, Pl, SR @ 43.1-43.9'															
HQ	3	5.0	4.9	1.6	98		32			44		538		0°, J, UK, Fi, Pl, SR @ 43.6', 43.7', 44.2' lean clay parting - about 100% medium plasticity, medium toughness, no dilatancy fines; white; soft; moist; strong reaction w/HCl; slight hydrocarbon odor; homogeneous @ 43.9'	Core box #2 starts @ 43.9'.														
										45		537																	



BLACK &amp; VEATCH

## BORING LOG

BORING NO. EB/TSC-E3

SHEET 4 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6567.3' E 4819.5'										GROUND ELEVATION (DATUM) 581.8 ft (NAVD 88)										TOTAL DEPTH 130.5 (feet)																																																																																																																																																																																			
SURFACE CONDITIONS Paved street										COORDINATE SYSTEM Plant										DATE START 08/21/07										DATE FINISHED 08/23/07																																																																																																																																																																																			
SAMPLING										LOGGED BY Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																																																																																																																																																			
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY									<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td>45</td> <td></td> <td></td> <td></td> <td>0°, J, No, No, PI, SR @ 45.3'</td> <td></td> </tr> <tr> <td>46</td> <td></td> <td>536</td> <td></td> <td>40°, J, No, No, PI, SR @ 45.3-45.5'</td> <td></td> </tr> <tr> <td>47</td> <td></td> <td>535</td> <td></td> <td>lean clay parting - about 100% medium plasticity, medium toughness, no dilatancy fines; white; soft; moist; strong reaction w/HCl; slight hydrocarbon odor; homogeneous @ 45.7'</td> <td></td> </tr> <tr> <td>48</td> <td>HQ</td> <td>534</td> <td></td> <td>0°, J, Cl, Fi, PI, SR @ 46.0'</td> <td></td> </tr> <tr> <td>49</td> <td></td> <td>533</td> <td></td> <td>pitted @ 46.2-46.7'</td> <td></td> </tr> <tr> <td>50</td> <td></td> <td>532</td> <td></td> <td>DOLOMITE; light gray, banded; micritic; fresh; very strong; hard; widely spaced stylolites; (bands bedding parallel); (Bass Islands Group).</td> <td></td> </tr> <tr> <td>51</td> <td></td> <td>531</td> <td></td> <td>0°, J, Cl, Fi, PI, SR @ 46.6'</td> <td></td> </tr> <tr> <td>52</td> <td></td> <td>530</td> <td></td> <td>bands @ 20° @ 46.8-48.7'</td> <td></td> </tr> <tr> <td>53</td> <td>HQ</td> <td>529</td> <td></td> <td>75°, J, No, No, PI, SR @ 47.8-48.2'</td> <td></td> </tr> <tr> <td>54</td> <td></td> <td>528</td> <td></td> <td>DOLOMITE; olive gray; pitted; micritic; slightly weathered; strong; hard; w/trace fossils (mollusks) &amp; widely spaced stylolites; (Bass Islands Group).</td> <td></td> </tr> <tr> <td>55</td> <td></td> <td>527</td> <td></td> <td>shale band; black; platy; very fine grained; fresh; strong; hard; weathered contact w/surrounding dolomite @ 49.0-49.2'</td> <td></td> </tr> <tr> <td>56</td> <td></td> <td>526</td> <td></td> <td>85°, J, N to MW, No, No, PI, SR @ 49.2-50.0'</td> <td></td> </tr> <tr> <td>57</td> <td></td> <td>525</td> <td></td> <td>0°, J, Cl, Fi, PI, SR @ 49.7'</td> <td></td> </tr> <tr> <td>58</td> <td></td> <td>524</td> <td></td> <td>20°, J, MW, WA @ 51.0-51.2'</td> <td></td> </tr> <tr> <td>59</td> <td></td> <td>523</td> <td></td> <td>0°, J, UK, Pa, Ir, Slk (vertically oriented slickensides) @ 51.0-51.2'</td> <td></td> </tr> <tr> <td>60</td> <td></td> <td>522</td> <td></td> <td>0°, B, UK, Fi, PI, SR @ 51.0', 52.5', 52.6'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>shale partings - 0°, B, PI, SR @ 51.2', 51.7'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>closely spaced stylolites @ 53.8-54.5'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>DOLOMITE; light brownish gray; pitted; micritic to fine grained; fresh to slightly weathered; strong; medium bedded; healed fractures weathered out to form pits; fine grained sections possibly oolitic; (Bass Islands Group).</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>argillaceous limestone @ 57.8-58.0'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0°, B/J, anhydrite, Pa, PI, R @ 58.5'; joint has anhydrite crystals 0.4-1.2" diameter</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>argillaceous limestone; very fine grained (crystalline); fresh; strong; very hard; strong reaction w/HCl on fresh surface @ 58.5-58.8'</td> <td></td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	45				0°, J, No, No, PI, SR @ 45.3'		46		536		40°, J, No, No, PI, SR @ 45.3-45.5'		47		535		lean clay parting - about 100% medium plasticity, medium toughness, no dilatancy fines; white; soft; moist; strong reaction w/HCl; slight hydrocarbon odor; homogeneous @ 45.7'		48	HQ	534		0°, J, Cl, Fi, PI, SR @ 46.0'		49		533		pitted @ 46.2-46.7'		50		532		DOLOMITE; light gray, banded; micritic; fresh; very strong; hard; widely spaced stylolites; (bands bedding parallel); (Bass Islands Group).		51		531		0°, J, Cl, Fi, PI, SR @ 46.6'		52		530		bands @ 20° @ 46.8-48.7'		53	HQ	529		75°, J, No, No, PI, SR @ 47.8-48.2'		54		528		DOLOMITE; olive gray; pitted; micritic; slightly weathered; strong; hard; w/trace fossils (mollusks) & widely spaced stylolites; (Bass Islands Group).		55		527		shale band; black; platy; very fine grained; fresh; strong; hard; weathered contact w/surrounding dolomite @ 49.0-49.2'		56		526		85°, J, N to MW, No, No, PI, SR @ 49.2-50.0'		57		525		0°, J, Cl, Fi, PI, SR @ 49.7'		58		524		20°, J, MW, WA @ 51.0-51.2'		59		523		0°, J, UK, Pa, Ir, Slk (vertically oriented slickensides) @ 51.0-51.2'		60		522		0°, B, UK, Fi, PI, SR @ 51.0', 52.5', 52.6'						shale partings - 0°, B, PI, SR @ 51.2', 51.7'						closely spaced stylolites @ 53.8-54.5'						DOLOMITE; light brownish gray; pitted; micritic to fine grained; fresh to slightly weathered; strong; medium bedded; healed fractures weathered out to form pits; fine grained sections possibly oolitic; (Bass Islands Group).						argillaceous limestone @ 57.8-58.0'						0°, B/J, anhydrite, Pa, PI, R @ 58.5'; joint has anhydrite crystals 0.4-1.2" diameter						argillaceous limestone; very fine grained (crystalline); fresh; strong; very hard; strong reaction w/HCl on fresh surface @ 58.5-58.8'		<p>Water level @ 15.0' prior to drilling on 08/23/07.</p> <p>Drill chatter @ 59.5'.</p>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																																																																																																										
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**BLACK & VEATCH****BORING LOG**

BORING NO. EB/TSC-E3

SHEET 5 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6567.3'										GROUND ELEVATION (DATUM) E 4819.5'										TOTAL DEPTH 130.5 (feet)									
SURFACE CONDITIONS Paved street										COORDINATE SYSTEM Plant										DATE START 08/21/07										DATE FINISHED 08/23/07									
SAMPLING										LOGGED BY Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	7	5.0	5.0	1.8	100	36		60				90° J, MW, anhydrite, Fi, PI @ 58.8-59.2' 80° J, N, anhydrite, Fi, PI @ 59.0-59.5' grayish brown, banded; w/shale partings @ 59.8-60.1'										Core box #3 starts @ 59.6'																	
								61		521		DOLOMITE; gray; micritic to very fine grained; fresh; very strong; very hard; (Bass Islands Group). dolomite & dolomitic shale band; gray & dark gray, mottled; very fine grained; fresh strong; very hard @ 61.4-61.5'																											
								62		520		10° B, UK, Fi, PI, R @ 61.4' lean clay band - about 100% medium plasticity, medium toughness, slow dilatancy fines; white; soft; moist; hydrocarbon odor; strong reaction w/HCl; homogeneous @ 61.5-61.6'																											
								63		519																													
								64		518		DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; strong; very hard; oolites approximately 0.02-0.04"; (Bass Islands Group).																											
								65		517		90° J, VN, WA @ 61.6-63.5' 70° J, Ca, Fi, PI, SR @ 63.3-63.5' 90° J, No, No, PI, SR @ 63.3-64.4'																											
HQ	8	5.0	5.0	3.0	100	60		66		516		DOLOMITE; brecciated (healed); argillaceous; light gray & gray, banded; micritic; fresh; very strong; hard; w/black; micritic; fresh; strong; hard; shale partings; (Bass Islands Group).																											
								67		515		dolomitic shale; light gray & dark gray, mottled; very fine grained; fresh; strong; very hard @ 65.5-65.8'																											
								68		514		claystone band; very dark gray; fresh; strong; hard; laminated @ 65.8-65.9'																											
								69		513		10° J, T, Ca, Fi, PI @ 65.9' shale parting - 0° B, Ir, R @ 67.3'																											
								70		512		claystone parting; very dark gray; fresh; strong; hard; laminated @ 67.8'																											
								71		511		DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; banded w/black; fresh; very strong; hard; shale partings & bands; (Bass Islands Group). bands @ 40° @ 68.0-68.5' bands @ 0° @ 68.5-70.0'																											
								72		510		lean clay parting - about 100% medium plasticity, medium toughness, no dilatancy fines; gray; moist; hydrocarbon odor; strong reaction w/HCl; homogeneous @ 68.7-68.8'																											
HQ	9	5.0	5.0	3.3	100	66		73		509		50° J, Ca, Fi, PI, SR @ 69.0-69.3' shale partings - 0° B, PI, SR @ 69.2', 69.6', 69.9' gray; banding less pronounced; fewer shale partings @ 70.0-73.5'																											
								74		508		70° J, Ca, Cl, Pa, PI, SR @ 70.2-70.5' 150° J, Cl, Pa, PI, SR @ 70.3-70.4'										Core box #4 starts @ 72.5'																	
								75		507		fat clay - about 100% high plasticity, medium toughness, slow dilatancy fines; white; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 71.3-71.6' 10° J, No, No, PI, SR @ 71.9', 72.0', 72.5' pitted @ 72.8-73.5'																											
												DOLOMITE; oolitic; light brownish gray; pitted; very																											

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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**BLACK & VEATCH****BORING LOG**

BORING NO. EB/TSC-E3

SHEET 7 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6567.3' E 4819.5'										GROUND ELEVATION (DATUM) 581.8 ft (NAVD 88)										TOTAL DEPTH 130.5 (feet)																																																																																									
SURFACE CONDITIONS Paved street										COORDINATE SYSTEM Plant										DATE START 08/21/07										DATE FINISHED 08/23/07																																																																																									
SAMPLING										LOGGED BY <i>60 for TB for</i> Grainger/Mass										CHECKED BY <i>8 for TB for</i> Dogbey/Mass										APPROVED BY <i>8 for</i> Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																	
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. EB/TSC-E3

SHEET 8 OF 9

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6567.3'		GROUND ELEVATION (DATUM) E 4819.5'		581.8 ft (NAVD 88)		TOTAL DEPTH 130.5 (feet)		
SURFACE CONDITIONS Paved street				COORDINATE SYSTEM Plant		DATE START 08/21/07		DATE FINISHED 08/23/07				
SAMPLING				LOGGED BY <i>TS for</i> Grainger/Mass		CHECKED BY <i>TS for</i> Dogbey/Mass		APPROVED BY <i>TS for</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							105				90°, J, Ca, Pa, PI, SR @ 103.3-103.5', 103.6-104.1', 104.4-104.9'	
			105.5						476		highly fractured w/clay @ 104.3-104.4'	Core box #6 starts @ 105.5'.
							106		475		DOLOMITE; gray; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/very widely spaced stylolites; (Bass Islands Group).	
							107		474		30°, J, Ca, Fi, PI, SR @ 106.3-106.4'	
									473		0°, B, Ca, Fi, PI, SR @ 106.8', 107.0'	
HQ	16	5.0	5.0	2.2	100	44	108		472		highly fractured @ 107.3-107.4'	
									471		0°, B, Ca, Fi, PI, SR @ 108.0', 108.1', 108.7'	
							109		470		90°, J, No, No, PI, SR @ 108.8-109.0'	
									469		10°, B/J, Ca/UK, Fi, PI, SR @ 109.0'	
							110		468		0°, B, Ca/CI, Fi, PI, SR @ 109.4', 109.7'	
									467		90°, J, Ca, Pa, PI, SR @ 109.4-110.1', 110.0-110.4'	
							111		466		80°, J, Ca, Pa, PI, SR @ 109.7-109.9'	
									465		50°, J, Ca, Fi, PI, SR @ 110.0-110.2'	
			110.5				112		464		DOLOMITE; light gray; very fine to fine grained (crystalline); fresh; very strong; very hard; (Bass Islands Group).	
									463		20°, J, Ca, Fi, PI, SR @ 111.1-111.2'	
							113		462		highly fractured w/clay @ 111.3-111.4'	
HQ	17	5.0	5.0	2.7	100	54	114				0°, J, No, No, Ir, SR @ 111.8'	
											70°, J, No, No, PI, SR @ 111.8-112.2'	
							115				lean clay band - about 100% medium plasticity, medium toughness, no dilatancy fines; firm; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 113.1-113.2'	
											DOLOMITE; light gray; micritic; fresh; very strong; hard; (Bass Islands Group).	
							116				70°, J, No, No, PI, SR @ 113.9-114.2'	
											DOLOMITE; argillaceous; brecciated (healed); grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; brecciated zones filled w/very dark gray; fresh; strong; hard; shale & w/pyrite; (Bass Islands Group).	
							117				highly fractured w/clay @ 114.8-114.9'	Core box #7 starts @ 115.2'.
											90°, J, No, No, WA, SR @ 114.9-115.2'	
							118				DOLOMITE; light brownish gray; pitted; micritic; slightly weathered; strong; hard; (Bass Islands Group).	
											30°, J, No, No, PI, S @ 117.5-117.8'	
							119				70°, J, Ca, Pa, PI, SR @ 118.2-118.7'	
HQ	18	5.0	5.0	4.0	100	80	120				shale parting - 0°, B, PI, SR @ 118.3'	
											130°, J, Ca, Fi, PI, SR @ 118.7-118.8'	
											DOLOMITE; argillaceous; dark grayish brown; micritic; fresh; very strong; hard; (Bass Islands Group).	

**BLACK & VEATCH****BORING LOG**

BORING NO. EB/TSC-E3

SHEET 9 OF 9

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483							
PROJECT LOCATION Monroe, MI				COORDINATES N 6567.3'		GROUND ELEVATION (DATUM) E 4819.5'		TOTAL DEPTH 130.5 (feet)							
SURFACE CONDITIONS Paved street				COORDINATE SYSTEM Plant		DATE START 08/21/07		DATE FINISHED 08/23/07							
SAMPLING				LOGGED BY <i>for TB for</i> Grainger/Mass				CHECKED BY <i>for TB for</i> Dobbey/Mass				APPROVED BY <i>for</i> Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
CORING															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
HQ	19	5.0	3.5	0.4	70	8	120				Group).				
			120.5				121		461		0°,B,Cl,Fi,PI,SR @ 121.1',121.2'				
							122		460		20°,J,anhydrite,Fi,PI,SR @ 121.6'				
											highly fractured @ 122.4-122.6'				
							123		459		DOLOMITE; argillaceous; & SHALE; dolomitic; olive brown, dark gray & black, banded; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). highly fractured @ 123.0-124.1'				
							124		458			Core loss @ 124.1-125.5'.			
							125		457						
			125.5				126		456			Core loss throughout 125.5-128.7'.			
							127		455						
HQ	20	5.0	1.8	0.0	36	0	128		454						
							129		453		claystone; dark gray; highly weathered; weak; low hardness; properties comparable to high plasticity, low toughness, no dilatancy fines soil; moist @ 128.7-129.1'				
							130		452		highly fractured @ 129.1-129.5'				
											shale partings - 0°,B,Ca,Pa,PI,SR @ 129.5', 129.9', 130.0' (2), 130.2'				
											80°,J,Cl,Pa,PI,SR @ 130.3-130.4'				
							131		451			Bottom of boring @ 130.5'; Water level @ 16.7' @ completion of drilling.			
							132		450			Backfilled w/ bentonite chips to 2' & backfilled w/gravel to surface on 09/12/07.			
							133		449						
							134		448						
							135		447						

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 1 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																						
PROJECT LOCATION Monroe, MI										COORDINATES N 6490.2' E 4915.0'										GROUND ELEVATION (DATUM) 581.2 ft (NAVD 88)										TOTAL DEPTH 130.3 (feet)																																																												
SURFACE CONDITIONS Gravel street										COORDINATE SYSTEM Plant										DATE START 08/22/07										DATE FINISHED 08/26/07																																																												
SAMPLING										LOGGED BY <i>Graininger/Mass</i>										CHECKED BY <i>Dogbey/Mass</i>										APPROVED BY <i>Meyer</i>																																																												
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> <tr> <td colspan="7">CORING</td> </tr> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING							CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																				
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																				
<div style="display: flex; justify-content: space-between;"> <div>S</div> <div>1</div> <div>5.0</div> <div></div> <div></div> <div></div> <div>3.0</div> </div>							0										581																				<p><u>COBBLES</u> - About 60% angular, cubical to elongated, hard cobbles, w/max. size 8"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular, hard sand; about 5% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).</p> <p>Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p> <p>Discrete sample SC1 collected @ 8.9-9.2'.</p>																																																					
							1										580																																																																									
							2										579																																																																									
							3										578																																																																									
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<div style="display: flex; justify-content: space-between;"> <div>S</div> <div>2</div> <div>10.0</div> <div></div> <div></div> <div></div> <div>3.5</div> </div>							12.8										568										Lean <u>CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & yellowish brown, mottled; soft; moist; swampy odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).										Discrete sample SC2 collected @ 14.0-14.2'.																																																					
							14.0										567																																																																									

CLIENT						PROJECT				SHEET 2 OF 10	
Detroit Edison						Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI			COORDINATES N 6490.2'			GROUND ELEVATION (DATUM) E 4915.0'			TOTAL DEPTH 130.3 (feet)		
SURFACE CONDITIONS Gravel street						COORDINATE SYSTEM Plant		DATE START 08/22/07		DATE FINISHED 08/26/07	
LOGGED BY <i>for TB hr</i> Grainger/Mass						CHECKED BY <i>for TB hr</i> Dogbey/Mass		APPROVED BY <i>for</i> Meyer			
SAMPLING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY					
CORING											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	REMARKS
			15.5				15		566		
TW	3					1.5	16		565		
							17		564		
							18		563		
SPT	4	3	4	9	13	1.5	19		562		
							20		561		
TW	5					1.4	21		560		
							22		559		
							23		558		
							24		557		
SPT	6	50/5"	-	-	50+	0.4	25		556		
							26		555		
							27		554		
							28		553		
			28.5				29		552		
S	7					1.5	30		552		

Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/NWJ rods & 4½" tricone bit using bentonite mud as drilling fluid. PP = 3.5 TSF @ 17.5'.

Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, rounded to subangular, hard sand; brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

PP = 3.3 TSF @ 21.7'.

Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, angular, micritic, dolomite hard gravel; about 10% fine to coarse, angular, hard sand; gray; hard; moist; strong reaction w/HCl; homogeneous; trace cobbles; (Glacial Till).

Drill chatter @ 23.0'.

Tricone refusal @ 28.5'. Below 28.5' continued w/4" ID sonic continuous

DOLOMITE; massive; crystalline; gray; micritic; slightly weathered; very strong; hard; highly fractured; (Bass Islands Group).

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 3 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6490.2'										GROUND ELEVATION (DATUM) E 4915.0'										TOTAL DEPTH 130.3 (feet)									
SURFACE CONDITIONS Gravel street										COORDINATE SYSTEM Plant										DATE START 08/22/07										DATE FINISHED 08/26/07									
SAMPLING										LOGGED BY <i>for TB for</i> Grainger/Mass										CHECKED BY <i>for TB for</i> Dogbey/Mass										APPROVED BY <i>for</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
HQ	1	5.0	4.5	0.0	90	0	30		551		DOLOMITE; argillaceous; dark gray; micritic; fresh to slightly weathered; very strong; very hard; highly fractured; (Bass Islands Group). highly fractured @ 30.5-30.9', 32.9-33.1', 33.5-33.8' 0°,B,No,No,PI,SR to R @ 31.2', 31.3', 31.4', 31.7', 32.1', 32.2', 32.5', 32.7', 32.9', 33.1', 33.3', 34.1', 34.5' 90°,J,Ca,Pa,PI,SR @ 31.3-32.5' 90°,J,No,No,PI,SR @ 32.7-35.2' 90°,J,No,No,WA,SR @ 33.1-33.5' brecciated @ 33.6-33.7' gray, trace stylolites @ 33.7-34.8'										sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core S7 stored in box labeled SC1. Set nominal 6" temporary steel casing to 30.0'. Below 30.0' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Water level @ 13.2' prior to start of drilling on 08/25/07. Core box #1 starts @ 30.0'. Core loss @ 30.0-30.5'. Drill chatter @ 35.5'. Drill chatter @ 36.0'. Drill chatter @ 37.5'.																		
HQ	2	5.0	5.0	3.6	100	72	35		546		0°,B,UK,Fi,PI,SR to R @ 35.6', 35.8', 35.9', 36.0' very closely spaced stylolites @ 35.6-37.3' grades light brownish gray; w/shale partings @ 36.5' 0°,B,CI,Pa,PI,SR @ 36.6' 15°,J,CI,Pa,PI,SR @ 37.8'																												
HQ	3	5.0	4.8	2.0	96	40	40		541		DOLOMITE; argillaceous; olive gray; micritic; fresh to slightly weathered; strong; hard; w/stylolites; (Bass Islands Group). banded @ 38.3-39.3' 90°,J,T,PI @ 38.5-40.5', 39.0-40.5' 0°,B,UK,Fi,PI,SR to R @ 39.0', 39.6' 80°,J,CI,Fi,PI,SR @ 39.8' 0°,J,Ca,Pa,PI,SR @ 40.2' highly fractured @ 40.5-41.2' grades light brownish gray & gray, banded @ 41.3' shale parting - 0°,B,PI,SR @ 42.0'																												
							41		540																														
							42		539																														
							43		538																														
							44		537		DOLOMITE; grayish brown, gray, & very dark gray, mottled; pitted; micritic; slightly to moderately weathered; strong; very hard; pits closely spaced, 0.004-0.04", some partially filled w/calcite; (Bass Islands Group). 30°,J,No,No,PI,R @ 43.0-43.1', 43.3-43.4' highly fractured @ 44.0-44.1'										Core loss in highly fractured zone @ 44.0-																		
							45																																

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 4 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6490.2' E 4915.0'										GROUND ELEVATION (DATUM) 581.2 ft (NAVD 88)										TOTAL DEPTH 130.3 (feet)									
SURFACE CONDITIONS Gravel street										COORDINATE SYSTEM Plant										DATE START 08/22/07										DATE FINISHED 08/26/07									
SAMPLING										LOGGED BY G. L. for TB for Grainder/Mass										CHECKED BY S. B. for TB for Dogbey/Mass										APPROVED BY E. Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
HQ	4	5.0	5.0	3.9	100	78	45		536		grained; fresh; strong; hard; w/trace fossils (mollusks) & stylolites; pits (0.004-0.008"); trace shale partings; (Bass Islands Group). shale partings - 0°,B,Pl,SR @ 44.4', 46.3'	44.1'. Core box #2 starts @ 45.0'.																											
							46		535		0°,B,No,No,Pl,SR @ 46.5', 47.0'																												
							47		534		shale partings - 0°,B,WA,SR @ 47.9', 49.1'																												
							48		533		highly fractured @ 49.1-49.3'																												
							49		532		DOLOMITE; argillaceous; grayish brown & gray, banded; very fine grained; fresh; very strong; hard; (Bass Islands Group). 0°,B,No,No,Pl,SR @ 49.7' highly fractured @ 50.5-50.7' 0°,J,No,No,Pl,SR @ 50.5',50.7' 70°,J,N,No,No,Pl,SR @ 50.9-51.2', 51.0-51.2'	49.4' Drill chatter @ 49.5'.																											
HQ	5	5.0	5.0	1.3	100	26	50		531		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group). 0°,J,No,No,Pl,SR @ 51.4',51.6',53.2' 90°,J,N,Pl @ 51.5-52.1' highly fractured @ 52.1-52.4' anhydrite; white; micritic; fresh; strong; hard; possible joint fill; ~0.4" crystals @ 52.4-52.7' shale parting @ 52.7' 120°,J,Ca,Pa,Pl,SR @ 53.5-53.8' 60°,J,Ca,Pa,Pl,SR @ 53.6-53.7'																												
							51		530		shale partings & stylolites @ 55.0-55.3'																												
							52		529		DOLOMITE; argillaceous; olive gray; micritic; fresh; very strong; very hard; (Bass Islands Group). 10°,B,No,No,Pl,R @ 55.7-55.8' 30°,J,No,No,Ir,R @ 56.2' 85°,J,T,Pl @ 56.6-56.8' 75°,J,Ca,Fi,Pl,Slk @ 56.6-56.8' dolomite & dolomitic shale; light gray & light brownish gray, mottled; micritic; fresh; strong; hard; @ 56.8-56.9'																												
							53		528		DOLOMITE; oolitic; light brownish gray; medium to coarse grained (crystalline); fresh; strong; hard; oolites about 0.02-0.04"; (Bass Islands Group). fine grained @ 57.9-58.1' elongated vugs, 0.04-0.08" @ 59.1-59.5'																												
							54		527		DOLOMITE; white & light gray, banded; micritic; fresh;																												
HQ	6	5.0	4.8	3.3	96	66	55		526																														
							56		525																														
							57		524																														
							58		523																														
							59		522																														
							60																																

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 5 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6490.2' E 4915.0'										GROUND ELEVATION (DATUM) 581.2 ft (NAVD 88)										TOTAL DEPTH 130.3 (feet)													
SURFACE CONDITIONS Gravel street										COORDINATE SYSTEM Plant										DATE START 08/22/07										DATE FINISHED 08/26/07													
SAMPLING										LOGGED BY <i>Grainder/Mass</i>										CHECKED BY <i>Dogbey/Mass</i>										APPROVED BY <i>Meyer</i>													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																															
HQ		7		5.0		5.0		2.9		100		58		60		521						very strong; hard; w/very dark gray; very fine grained; fresh; strong; hard; shale partings; wavy, subhorizontal bands; (Bass Islands Group). highly fractured @ 60.0-60.4'																				Core box #3 starts @ 60.0'.	
														61		520						10°, J, No, No, PI, R @ 61.1'																					
														62		519						20°, J, CI, FI, PI, R @ 61.7'																					
														63		518						10°, J, CI, FI, PI, SR @ 62.2', 62.5'																					
														64		517						DOLOMITE; grayish brown, light brownish gray & gray, banded; laminated; micritic; fresh; strong; hard; (Bass Islands Group).																					
														65		516						60°, J, CI, Pa, PI, R @ 63.9-64.3' (2)																				No drilling fluid return @ 64.0'.	
														66		515						highly fractured w/clay @ 64.5-64.6'																					
														67		514						0°, J, UK, Pa, St, R @ 65.6'																					
														68		513						20°, J, Ca/CI, Pa, PI, SR @ 65.9', 66.0'																					
														69		512						0°, J, No, No, PI, SR @ 66.1'																					
														70		511						20°, J, CI, FI, PI, SR @ 66.3'																					
														71		510						gray; pitted; less banding @ 66.8-67.6'																					
														72		509						90°, J, CI, Pa, PI, SR @ 67.5-68.0'																					
														73		508						90°, J, T, PI @ 67.6-68.0'																					
														74		507						highly fractured @ 68.6-68.7'																					
														75								DOLOMITE; light brownish gray; pitted; micritic; fresh to slightly weathered; strong; hard; w/closely to very closely spaced stylolites; pits 0.02"; (Bass Islands Group).																					
																						40°, J, CI, Pa, PI, St, SR @ 68.9-69.0'																					
																						80°, J, No, No, PI, SR @ 70.2-70.5'																					
																						highly fractured @ 72.2-72.3', 73.3-73.5'																					
																						grades light olive gray & light yellowish brown, banded @ about 72.3'																					
																						65°, J, No, No, PI, SR @ 72.6-73.0'																					
																						90°, J, No, No, PI, R @ 73.0-73.3'																					
																						fat clay - about 100% high plasticity, medium																					



# BLACK & VEATCH

# BORING LOG

BORING NO. FO-E1

**SHEET 6 OF 10**

CLIENT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Monroe, MI					N 6490.2'					E 4915.0'					581.2 ft (NAVD 88)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Gravel street										Plant					08/22/07					08/26/07																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 7 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6490.2' E 4915.0'										GROUND ELEVATION (DATUM) 581.2 ft (NAVD 88)										TOTAL DEPTH 130.3 (feet)									
SURFACE CONDITIONS Gravel street										COORDINATE SYSTEM Plant										DATE START 08/22/07										DATE FINISHED 08/26/07									
SAMPLING										LOGGED BY <i>Grainder/Mass</i>										CHECKED BY <i>Dogbey/Mass</i>										APPROVED BY <i>Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
HQ	13	5.0	5.0	3.1	100	62	90		491		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/trace stylolites; (Bass Islands Group). shale parting - 0°, B, PI, SR @ 90.7' 0°, B, CI, FI, PI, SR @ 90.9' 0°, B, No, No, PI, SR @ 91.5', 93.4'										Core box #5 starts @ 90.0'.																		
							91		490																														
							92		489																														
							93		488																														
							94		487		mottled w/dolomitic shale @ 93.3-93.5' shale parting - 10°, B, PI, SR @ 93.7' grades brecciated; fractured argillaceous dolomite healed/recrystallized w/quartz (hardness > knife blade) @ 93.7'																												
							95		486																														
HQ	14	5.0	4.6	1.6	92	32	96		485		DOLOMITE; olive gray, light gray & dark gray, banded; micritic; fresh; very strong; hard; (Bass Islands Group). 90°, J, VN, Ca, FI, PI @ 94.0-95.1' 60°, J, T, Ca, FI, PI @ 94.9-95.0' shale partings - 0°, B, PI, SR @ 95.0', 95.1', 95.2', 95.4', 95.6', 95.7', 95.9', 96.0', 96.1', 97.3', 97.5' gray, mottled @ 96.2-97.2'																												
							97		484		highly fractured @ 97.3-97.5' 50°, J, No, No, PI, SR @ 97.5-97.7'																												
							98		483																														
							99		482		DOLOMITE; gray; micritic; fresh; strong; hard; thick bedded; w/trace stylolites; (Bass Islands Group). shale partings - 0°, B, PI, SR @ 97.9', 98.9' highly fractured @ 97.9-98.0' 40°, J, CI, Pa, PI, SR @ 99.2-99.3'																												
							100		481		90°, J, No, No, PI, SR @ 99.8-100.0' (2) 0°, B, UK, FI, PI, SR @ 100.0', 101.1'																												
							101		480																														
							102		479		0°, B, UK, FI, PI, SR @ 101.6', 101.7', 102.1'																												
HQ	15	5.0	5.0	2.9	100	58	103		478		50°, J, CI, Pa, PI, SIk @ 102.1-102.2' 50°, J, CI, Pa, PI, S @ 102.2-102.3' 90°, J, No, No, PI, SR @ 102.3-102.8' 0°, B, UK, FI, PI, SR @ 102.4', 102.8', 103.2', 103.3' highly fractured @ 103.1-103.3'																												
							104		477		0°, B, UK, FI, PI, SR @ 103.7', 103.9', 104.4'																												
							105				40°, J, No, No, PI, SR @ 104.8-105.0'										Core box #6 starts @ 104.4'.																		

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 8 OF 10

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483														
PROJECT LOCATION Monroe, MI					COORDINATES N 6490.2' E 4915.0'					GROUND ELEVATION (DATUM) 581.2 ft (NAVD 88)					TOTAL DEPTH 130.3 (feet)									
SURFACE CONDITIONS Gravel street					COORDINATE SYSTEM Plant					DATE START 08/22/07					DATE FINISHED 08/26/07									
SAMPLING										LOGGED BY <i>Granger/Mass</i>					CHECKED BY <i>Dogbey/Mass</i>					APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS								
HQ	16	5.0	4.9	3.7	98	74	105.0		476		110°, J, No, No, PI, S @ 105.1-105.3' 80°, J, No, No, PI, S @ 105.3-105.5'													
							106		475		mottled w/shale @ 106.7-107.1'													
							107		474		0°, J, Ca, Fi, PI, SR @ 107.1', 107.5'													
							108		473		highly fractured @ 107.7-107.8'													
							109		472		70°, J, No, No, WA, S @ 108.1-108.5'													
							110		471		DOLOMITE; argillaceous; grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/very closely spaced stylolites; (Bass Islands Group). 0°, J, Cl, Pa, PI, SR @ 108.6'													
HQ	17	5.0	5.0	3.9	100	78	110.0		470															
							111		469															
							112		468															
							113		467		DOLOMITE; light brownish gray; micritic; slightly weathered; strong; hard; (Bass Islands Group). highly fractured @ 113.2-113.3' 0°, B, Ca, Cl, Fi, PI, SR @ 113.3' 0°, J, Ca, Pa, PI, SR @ 113.6', 113.9' 90°, J, T, Ca, Fi, PI @ 113.7-114.0' (3) 30°, J, Ca, Pa, PI, SR @ 113.9-114.0', 114.1-114.2'													
							114		466															
							115		465		DOLOMITE & argillaceous DOLOMITE; grayish brown & gray, mottled; pitted; micritic to very fine grained; fresh to slightly weathered; very strong; hard; (Bass Islands Group). highly fractured @ 115.4-115.6', 116.2-116.4'													
							116		464															
HQ	18	5.0	4.0	0.9	80	18	115.0		463		DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; (Bass Islands Group). claystone; dolomitic; greenish gray; very fine grained; highly weathered; weak; low hardness; hydrocarbon odor; bed; properties comparable to low plasticity, low toughness, no dilatancy fines @ 116.5-116.8' 30°, J, Cl, Pa, PI, SR @ 116.7-116.8' 90°, J, Cl, Pa, PI, SR @ 116.8-117.0' 0°, J, Cl, Fi, PI, SR @ 117.2', 117.4' 0°, J, Cl, Ca, Fi, PI, SR @ 117.3'													
							117		462															
							118		461															
							119		460															
							120		459		DOLOMITE & SHALE; dolomitic; light olive brown, dark													

**BLACK & VEATCH**

# BORING LOG

BORING NO. FO-E1

**SHEET 9 OF 10**

CLIENT										PROJECT										PROJECT NO.										
Detroit Edison										Fermi 3 COL Application										147483										
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH															
Monroe, MI					N 6490.2'					E 4915.0'					581.2 ft (NAVD 88)					130.3 (feet)										
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED										
Gravel street										Plant					08/22/07					08/26/07										
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY										
										G. For Grainger/Mass					E. For Dogbey/Mass					S. Meyer										
CORING										CLASSIFICATION OF MATERIALS										REMARKS										
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG																				
HQ	19	5.0	3.0	0	60	0	120.0		461		gray & dark grayish brown, banded; laminated; micritic to very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 70° J, CI, Pa, PI, SR @ 118.2-118.7' 90° J, CI, Pa, PI, SR @ 118.6-118.8' highly fractured @ 118.8-119.0' claystone; dolomitic; gray; highly weathered; weak to very weak; low hardness to friable; slight hydrocarbon odor @ 121.2-121.6'  shale parting - 0° B, PI, SR @ 122.7' 80° J, No, No, PI, SR @ 122.7-122.9'										Core box #7 starts @ 120.0'. Core loss throughout @ 120.0-130.0'.									
							121		460																					
							122		459																					
							123		458																					
							124		457																					
							125		456																					
HQ	20	2.5	1.0	0	40	0	125.0		455																					
							126		454																					
							127		453																					
							128		452																					
HQ	21	2.5	1.3	0.3	52	12	127.5		451																					
							129		450																					
							130		449																					
							131		448																					
							132		447																					
							133		446																					
							134		445																					
							135		444																					
							136		443																					
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							140		439																					
							141		438																					
							142		437																					
							143		436																					
							144		435																					
							145		434																					
							146		433																					
							147		432																					
							148		431																					
							149		430																					

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 10 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6490.2'										GROUND ELEVATION (DATUM) E 4915.0' 581.2 ft (NAVD 88)										TOTAL DEPTH 130.3 (feet)																															
SURFACE CONDITIONS Gravel street										COORDINATE SYSTEM Plant										DATE START 08/22/07										DATE FINISHED 08/26/07																															
SAMPLING										LOGGED BY <i>80 for 786</i> Grainger/Mass										CHECKED BY <i>80 for 786</i> Dogbey/Mass										APPROVED BY <i>em</i> Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
														135				446																								w/gravel to surface on 09/12/07.																			
														136				445																																											
														137				444																																											
														138				443																																											
														139				442																																											
														140				441																																											
														141				440																																											
														142				439																																											
														143				438																																											
														144				437																																											
														145				436																																											
														146				435																																											
														147				434																																											
														148				433																																											
														149				432																																											
														150																																															

CLIENT						PROJECT						SHEET NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH				
Monroe, MI			N 6203.1'			E 4776.3'			581.4 ft (NAVD 88)			105.2 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM			DATE START		DATE FINISHED		
Asphalt Parking Lot									08/25/07		08/26/07		
SAMPLING						LOGGED BY			CHECKED BY			APPROVED BY	
						Grainiger/Bonnie TB			Dogbey/Bonnie TB			Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							0		581		Undifferentiated Overburden. (see logs for FWS/ACB-C1a & TP 1)	Boring advanced w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Drilled through TP-1 backfill.	
							1		580				
							2		579				
							3		578				
							4		577				
							5		576				
							6		575				
							7		574				
							8		573				
							9		572				
			10.0				10		571		Well-graded GRAVEL with Fines and Sand (GW-GM) - About 75% gravel; about 15% sand; about 10% fines; (Fill).	From 10'-15' logged based on sample photo labeled S3 in photo record.	
							11		570				
							12		569				
							13		568				
							14		567				
							15						

**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1

SHEET 2 OF 8

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6203.1'		GROUND ELEVATION (DATUM) E 4776.3'		581.4 ft (NAVD 88)		TOTAL DEPTH 105.2 (feet)			
SURFACE CONDITIONS Asphalt Parking Lot				COORDINATE SYSTEM		DATE START 08/25/07		DATE FINISHED 08/26/07					
SAMPLING				LOGGED BY <i>Grainger/Bonnie TB</i>		CHECKED BY <i>Em ft Dogbey/Bonnie TB</i>		APPROVED BY <i>Em Meyer</i>					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
S	2		15.0				5.0	15		566		Silty/Clayey GRAVEL with Sand (GM/GC) - About 45% gravel; about 40% sand; about 15% fines.	From 15'-16' logged based on sample photo labeled S4 in photo record, w/ silt/clay content based on natural gamma log. Discrete sample 4A collected from S2 @ 16.5'-17.0'.
								16		565		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; greenish gray; soft; moist; weak reaction w/HCl; homogeneous; (Lacustrine Deposit).	
								17		564			
								18		563		Lean CLAY with Sand (CL) - About 75% medium plasticity, high toughness, no dilatancy fines; 15% fine to coarse, subangular to angular sand; 10% fine to coarse, subangular gravel w/max. size 1"; brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Discrete sample 4B collected from S2 @ 19.0'-19.5'.
								19		562			
								20		561			
								21		560		Poorly graded SAND (SP) - About 100% fine to medium sand; grayish brown; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Discrete sample 5A from S3 @ 20.6'-20.7'.
								22		559		Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness fines; 20% angular to subangular, fine to coarse gravel w/max. size 3"; about 5% subangular cobbles w/max. size of 5"; dark gray; firm; moist; strong reaction w/HCl; (Glacial Till).	
								23		558			
								24		557			
								25		556			
								26		555			
								27		554			
								28		553			
								29		552		DOLOMITE; grayish brown; crystalline; micritic; fresh; strong; hard; banded; (Bass Islands Group).	Sonic Core Box 1 starts @ 28.3'. Set nominal 6" temporary steel casing @ 30.5'.
								30					





**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1

SHEET 4 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6203.1'										GROUND ELEVATION (DATUM) E 4776.3' 581.4 ft (NAVD 88)										TOTAL DEPTH 105.2 (feet)									
SURFACE CONDITIONS Asphalt Parking Lot										COORDINATE SYSTEM										DATE START 08/25/07										DATE FINISHED 08/26/07									
SAMPLING										LOGGED BY <i>BoB</i> Grainger/Bonnie TB										CHECKED BY <i>BoB</i> Doggby/Bonnie TB										APPROVED BY <i>Em</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
PQ	4	5.0	5.0	2.9	100	58	45		536		DOLOMITE; argillaceous; light gray; micritic; slightly weathered; strong; hard; w/argillaceous partings and stylolites; (Bass Islands Group). 0°,B,N,Ir (solutioned) @ 45.5',46.1',46.3',46.5',46.7',47.7', 48.2'																												
							46		535																														
							47		534																														
							48		533																														
							49		532		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; w/vugs filled w/light brownish gray dolomite; fractured; healed; (Bass Islands Group). 85°-90°,J,MW,No,No,Ir,VR @ 49.4-49.9'																												
							50		531																														
							51		530		DOLOMITE; light gray; micritic; fresh; very strong; hard; (Bass Islands Group). 10°,B,N,No,No,Ir,R @ 50.4', 50.7', 51.3', 51.3'																												
PQ	5	5.0	5.0	3.0	100	60	52		529		SHALE; fissile; dark gray; fresh; moderately strong, hard; (Bass Islands Group). 90°,J,N,No,No,Ir,R @ 51.7-52.0'																												
							53		528		DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; gradational contact on bottom; (Bass Islands Group).																												
							54		527		DOLOMITE; oolitic, light brownish gray; crystalline; very fine grained; fresh; strong; hard; massive; w/ some dark gray seams; (Bass Islands Group). 30°,J,N,No,No,Ir,R @ 52.9' 70°,J,N,No,No,Ir,R @ 53.6', 53.8'																												
							55		526																														
							56		525		DOLOMITE; oolitic; intermixed light gray & light brownish gray, micritic; fresh; strong; hard; grading to mottled; (Bass Islands Group). 30°,J,T,No,No,Ir,R @ 55.5' 10°,B,N,No,No,Ir @ 55.9', 56.1', 56.2', 56.6', 57.3', 57.6', 58.0', 58.4', 58.6', 58.9', 59.5'																												
PQ	6	5.0	4.9	2.6	98	52	57		524		healed brecciated zone @ 56.2-56.4'																												
							58		523		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; w/shaley bands & partings; stylolites; (Bass Islands Group). contorted bedding @ 56.4-58.0'																												
							59		522		shale band @ 58.0'																												
							60																																

Core box #3 starts @ 49.5'.

Core box #4 starts @ 58.3'.

**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1

SHEET 5 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6203.1'										GROUND ELEVATION (DATUM) E 4776.3' 581.4 ft (NAVD 88)										TOTAL DEPTH 105.2 (feet)																																																																	
SURFACE CONDITIONS Asphalt Parking Lot										COORDINATE SYSTEM										DATE START 08/25/07										DATE FINISHED 08/26/07																																																																	
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> TB										CHECKED BY <i>Dooley/Bonnie</i> TB										APPROVED BY <i>Meyer</i> EM																																																																	
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																								
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																								
PQ 7 5.0 5.0 3.2 100 64										60.0										60										521										0°,B,N,No,No,Ir,R @ 60.3', 61.6', 65.4'										<p>fractured along bedding; weathered @ 60.7-60.8', 61.8-62.0', 63.8'</p> <p>62.0</p> <p><u>DOLOMITE</u>; light gray; micritic; slightly weathered; strong; hard; banded; w/stylolites &amp; argillaceous partings; (Bass Islands Group). 85°,J,N,No,No,Ir,VR @ 62.6-63.9'</p> <p>80°,J,T,H,No,Ir,R @ 64.9-65.8', 68.1-68.7'</p> <p>60°,J,T,H,Fi,Ir,R @ 65.4'</p> <p>Core box #5 starts @ 67.8'.</p> <p>60°,J,MW,Ci,Fi,Ir,R @ 70.3'</p> <p>60°,J,N,No,No,Ir,R @ 70.8'</p> <p>70.9</p> <p><u>BRECCIA</u>; healed; dolomite matrix; light gray; micritic, fresh; very strong; hard; w/clasts of dolomite; light brownish gray; (Bass Islands Group). fractured @ 71.5',71.7',72.0',72.3'</p> <p>fractured @ 72.7',73.2'</p> <p>fractured @ 74.6'</p>																																													
PQ 8 5.0 5.0 5.0 100 100										65.0										65										516																																																																	
PQ 9 5.0 5.0 3.0 100 60										70.0										70										511																																																																	
																				71										510																																																																	
																				72										509																																																																	
																				73										508																																																																	
																				74										507																																																																	
																				75																																																																											

**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1

SHEET 6 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483											
PROJECT LOCATION Monroe, MI										COORDINATES N 6203.1' E 4776.3'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)		TOTAL DEPTH 105.2 (feet)									
SURFACE CONDITIONS Asphalt Parking Lot										COORDINATE SYSTEM										DATE START 08/25/07		DATE FINISHED 08/26/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Granger/Bonnie TB</i>										CHECKED BY <i>F. Dogbey/Bonnie TB</i>										APPROVED BY <i>Meyer</i>	
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS			
PQ 10 5.0 4.7 2.5 94 50										75				506				DOLOMITE; argillaceous; light gray; micritic; slightly weathered; strong; hard; w/dark gray partings; (Bass Islands Group). 0-5°, B, UK, Pa, Ir, R @ 75.1', 75.2', 76.4'										Core box #6 starts @ 76.4'.			
										76		505																			
										77		504		0°, B, N (solutioned) @ 77.6', 77.9', 78.1', 78.2'																	
										78		503		80-85°, J, N, No, No, Ir, R @ 78.2-79.4' 0°, B, N, UK, Sp, Ir, R @ 78.5', 78.9', 79.0', 79.1'																	
										79		502																			
										80				501				SHALE; very dark gray; fissile; micritic; fresh; weak; low hardness; (Bass Islands Group).													
PQ 11 5.0 5.0 3.7 100 74										81		500		DOLOMITE; crystalline; gray; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group). 0-10°, B, N, UK, Sp, Ir, R @ 80.1', 80.6', 81.7',																	
										82		499		0-10°, B, N, UK, Sp, Ir, R @ 82.5'																	
										83		498		0-10°, B, N, UK, Sp, Ir, R @ 83.1', 83.3'																	
										84		497																			
										85				496				very soft, light gray parting @ 84.9' 0°, B, N, UK, Sp, Ir, R @ 85.4', 86.1', 87.1'										Core box #7 starts @ 86.1'.			
PQ 12 5.0 5.0 3.7 100 74										86		495		70°, J, N, No, No, Ir, VR @ 86.0'																	
										87		494		0°, B (solutioned) @ 86.9'																	
										88		493		70°, J, N, No, No, Ir, VR @ 87.5'																	
										89		492																			
										90				491				shaley dolomite band, dark gray @ 89.5-89.8' 0°, B (solutioned) @ 89.6'													

**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1

SHEET 7 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																				
PROJECT LOCATION Monroe, MI										COORDINATES N 6203.1' E 4776.3'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)		TOTAL DEPTH 105.2 (feet)																																		
SURFACE CONDITIONS Asphalt Parking Lot										COORDINATE SYSTEM										DATE START 08/25/07		DATE FINISHED 08/26/07																																		
SAMPLING										LOGGED BY Granger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																										
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																	
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																
										90																																														
PQ 13 5.0 5.0 4.1 100 82										90.0						DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard w/dark gray partings & stylolites; (Bass Islands Group). 0°, B, N, UK, Sp, Ir, R @ 89.9' 0°, B, N, UK, Su, Ir, R @ 90.1'																																								
										91																																														
										92																																														
										93						90° J, T, No, No, Pl, R @ 92.4-92.9' 0°, B, N, UK, Su, Ir, R @ 92.4', 92.6' 50° J, N, No, No, Pl, R @ 92.7', 94.7'																																								
										94						0°, B, N, UK, Su, Ir, R @ 93.6'																																								
										95						0°, B, N, UK, Su, Ir, R @ 94.7'																																								
PQ 14 5.0 4.9 4.3 98 86										95.0						DOLOMITE; light gray; micritic; fresh; very strong; hard; w/occasional stylolites; (Bass Islands Group). 0°, B, N, UK, Su, Ir, R @ 95.7', 95.8', 96.3'										Core box #8 starts @ 95.0'																														
										96																																														
										97						60° J, N, No, No, Ir, R @ 96.6'																																								
										98						0°, B, N, UK, Su, Ir, R @ 97.5'																																								
										99						80° J, T, Fi @ 98.5-99.7' 0°, B, N, UK, Su, Ir, R @ 98.6', 99.0'																																								
										100																																														
PQ 15 5.2 4.7 3.8 90 73										100.0																																														
										101						0°, B, N, No, No, Ir, R @ 101.1' 90° J, T, H, Ir @ 101.1-101.7' 0°, B, N, No, No, Ir, R @ 101.6'																																								
										102						60° J, N, No, No, Ir, R @ 102.2', 102.3'																																								
										103																																														
										104						0°, B, N, No, No, Ir, R @ 103.7', 103.9'																																								
										105						90° J, Ca, Fi, Ir, R @ 104.4-105.0'																																								

**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1

SHEET 8 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6203.1'										GROUND ELEVATION (DATUM) E 4776.3' 581.4 ft (NAVD 88)										TOTAL DEPTH 105.2 (feet)																																																																																																			
SURFACE CONDITIONS Asphalt Parking Lot										COORDINATE SYSTEM										DATE START 08/25/07										DATE FINISHED 08/26/07																																																																																																			
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> TB										CHECKED BY <i>Em for</i> Dogbey/Bonnie TB										APPROVED BY <i>Em</i> Meyer																																																																																																			
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																											
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																										
										105																																																		Bottom of boring @ 105.2'. Water level @ 17.4' @ completion of drilling. Boring backfilled w/bentonite chips on 09/13/07.																																																																					
										106																				476																																																																																																			
										107																				475																																																																																																			
										108																				474																																																																																																			
										109																				473																																																																																																			
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										119																				463																																																																																																			
										120																				462																																																																																																			

**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1a

SHEET 1 OF 1

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6200.6' E 4782.7'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										TOTAL DEPTH 9.9 (feet)																															
SURFACE CONDITIONS Asphalt Parking Lot										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/24/07																															
SAMPLING										LOGGED BY <i>Geo for Grainger</i>										CHECKED BY <i>Doobey/Bonnie</i>										APPROVED BY <i>Meyer</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
																						<b>ASPHALT;</b> <b>COBBLES</b> with Gravel - About 60% angular, cubical to elongated, hard cobbles w/max size 12"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular hard sand; about 5% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).																				Boring advanced w/vacuum excavation.																			
S		1		3.0								1.5		3				578																								Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.																			
S		2		5.0								4.0		5				576																								Encountered piece of PVC pipe between 5.0-7.0' (later determined to be from a sewer line).																			
														10				571				<b>PEAT (PT)</b> - About 100% black; fibrous organic material.																				Bottom of boring @ 9.9'. Boring abandoned & relocated due to sewer line. Area excavated to repair sewer line.																			
														11				570																																											
														12				569																																											
														13				568																																											
														14				567																																											
														15																																															



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. HM-E1

SHEET 1 OF 6

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 5985.3'		GROUND ELEVATION (DATUM) E 4530.2'		581.0 ft (NAVD 88)		TOTAL DEPTH 75.5 (feet)		
SURFACE CONDITIONS Paved Parking Area				COORDINATE SYSTEM Plant		DATE START 08/23/07		DATE FINISHED 08/25/07				
SAMPLING				LOGGED BY <i>Geo for TB for</i> Grainger/Mass		CHECKED BY <i>Geo for</i> Dogbey/Grainger		APPROVED BY <i>Geo</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							0		581		ASPHALT	Boring advanced w/vacuum excavation.
							1		580		COBBLES - About 60% angular, cubical to elongated, hard, cobbles w/max. size 12"; about 25% fine to coarse, angular, elongated to cubical, hard gravel w/ max. size 3"; about 15% fine to coarse, angular, hard, sand; gray; moist; strong reaction w/HCl; homogeneous; (Fill).	
							2		579			
							3		578			
S	1		3.0			1.5	4	X	577			Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample collected from S1 @ 4.0-4.2'.
							5		576			
							6		575			
							7		574			
S	2		5.0			2.0	8		573			Discrete sample collected from S2 @ 7.0-7.3'.
							9		572			
							10		571			
							11		570			
							12		569			Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; gray (10YR 6/1) & yellowish brown, mottled; soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).
							13		568			
							14		567			
							15		566			

**BLACK & VEATCH****BORING LOG**

BORING NO. HM-E1

SHEET 2 OF 6

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 5985.3'		GROUND ELEVATION (DATUM) E 4530.2'		TOTAL DEPTH 75.5 (feet)		DATE START 08/23/07		
SURFACE CONDITIONS Paved Parking Area				COORDINATE SYSTEM Plant		DATE FINISHED 08/25/07		DATE START 08/23/07				
SAMPLING				LOGGED BY <i>Geo. J. Grainger</i> TB for Grainger/Mass				CHECKED BY <i>Em. Dogbey</i> Dogbey/Grainger				
APPROVED BY <i>Em. Meyer</i> Meyer												
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							15		566			
							16		565			
TW	4		16.0			1.7	17		564		Lean CLAY (CL) - About 90% LL=36, PL=18, no dilatancy, high dry strength fines; about 10% sand; light olive brown; soft; moist; strong reaction w/HCl; homogeneous; (Lacustrine Deposit).	Set nominal 6" temporary steel casing to 15.5'. Hole open to 16.0. Below 16.0' continue w/NWJ rods & 4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 2.9 TSF @ 18.0'. TV = 0.57 TSF @ 18.0'.
							18		563			
SPT	5	3	4	8	12	1.5	19		562		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium sand; yellowish brown & light gray; firm; moist; strong reaction w/HCl; banded; (Glacial Till).	
							20		561			
							21		560			
TW	6					1.6	22		559			
							23		558			
							24		557		grades dark grayish brown; homogeneous @ 23.5'	PP = 4.5 TSF @ 23.5'. T = 0.65 TSF @ 23.5'.
							25		556		Sandy Lean CLAY (CL) - About 60% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 40% fine to coarse, subangular to angular, hard sand; trace fine, subangular, hard gravel; dark gray; very hard; moist; strong reaction w/HCl, homogeneous; (Glacial Till).	
SPT	7	21	23	24	47	1.1	26		555			
							27		554		Clayey SAND (SC) - About 80% fine to medium, sand; about 20% medium plasticity, low toughness, slow dilatancy, medium dry strength fines; dark grayish brown; very dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).	Tricone refusal @ 27.6'. Below 27.6' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced
			27.6				28		553			
S	9					2.9	29		552		DOLOMITE; gray; crystalline; micritic; slightly weathered; strong; hard; (Bass Islands Group).	
							30		551			



**BLACK & VEATCH****BORING LOG**

BORING NO. HM-E1

SHEET 3 OF 6

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 5985.3'										GROUND ELEVATION (DATUM) E 4530.2' 581.0 ft (NAVD 88)										TOTAL DEPTH 75.5 (feet)									
SURFACE CONDITIONS Paved Parking Area										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/25/07									
SAMPLING										LOGGED BY <i>Geo for TB for</i> Grainger/Mass										CHECKED BY <i>Geo for</i> Dobbey/Grainger										APPROVED BY <i>FM</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																										
CORING																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
PQ	1	3.0	3.0	1.5	100	50																																	
			30.5				30		551				w/sampler. Sonic core stored in box labeled SC4. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.5'.																										
							31		550			10°, B, N, No, No, Ir @ 30.8', 31.6', 31.7' 85°, J, N, No, No, Ir @ 31.2'																											
							32		549			30°, J, N, No, No, Ir @ 32.2' 10°, B, N, No, No, Ir @ 32.5', 33.3'																											
							33		548																														
			33.5				34		547			DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; (Bass Islands Group). 0°, B, N, UK, Pa, Ir @ 34.1', 35.0', 35.1', 36.0' 85°, J, N, No, No, Ir @ 34.5-35.6', 36.2-36.5'																											
PQ	2	5.0	5.0	1.6	100	32	35		546																														
							36		545			50°, J, N, No, No, Ir @ 35.8'																											
							37		544			DOLOMITE; dark grayish brown; pitted; crystalline; micritic; fresh; very strong; hard; banded; w/stylolites; (Bass Islands Group). 0°, B, N, UK, Pa, Ir @ 36.6', 37.4', 37.8' 85°, J, N, No, No, Ir @ 37.4-38.4' 90°, J, T, No, No, Ir @ 38.0-41.7'																											
							38		543																														
			38.5				39		542			0°, B, N, No, No, Ir @ 38.9', 39.5'																											
							40		541			90°, joints, intersecting at 90° @ 39.5-40.5'	Core box #2 starts @ 39.3'.																										
PQ	3	4.7	4.7	0.9	100	19	41		540			0°, B, N, No, No, Ir @ 40.5'																											
							42		539			0°, B, N, No, No, Ir @ 42.1', 42.4', 42.7', 42.9' 90°, joints, intersecting at 90° @ 42.1-42.6' pitting stops @ 42.1'																											
							43		538			bedding convoluted @ 43.0-49.0'																											
			43.2				44		537			85°, parallel joints, T, H, Pa @ 43.5-44.5'																											
PQ	4	2.3	2.3	1.1	100	48	45		536			10°, B, T, UK, Sp, Ir @ 44.5', 45.1', 45.2' fractured @ 44.5-45.2'																											



BLACK &amp; VEATCH

## BORING LOG

BORING NO. HM-E1

SHEET 4 OF 6

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI										COORDINATES N 5985.3' E 4530.2'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)		TOTAL DEPTH 75.5 (feet)	
SURFACE CONDITIONS Paved Parking Area										COORDINATE SYSTEM Plant										DATE START 08/23/07		DATE FINISHED 08/25/07	
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>TR for Grainger/Mass</i>										CHECKED BY <i>Dogbey/Grainger</i>		APPROVED BY <i>Meyer</i>	
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS				REMARKS	
PQ 5 5.0 4.7 1.1 94 22										45				536				70°, Intersecting joints, T, No, No, Ir @ 46.5', 48.0'  0°, B, UK, Sp, Ir @ 47.2', 47.7'  Core box #3 starts @ 47.7'.					
										46				535									
										47				534									
										48				533									
										49				532									
										50				531									
PQ 6 5.0 5.0 3.0 100 60										51				530				DOLOMITE; oolitic; light brownish gray; crystalline; micritic; fresh; very strong; hard; w/ thin parting of dark gray shale; (Bass Islands Group). 0°, B, UK, Sp, Ir @ 49.4' 85°, J, T, No, No, Ir @ 49.4-52.0'  DOLOMITE; light gray; micritic; slightly weathered; strong; hard; banded; w/ shale partings & stylolites; (Bass Islands Group). brecciated, healed @ 53.0-53.7' convoluted bedding @ 53.7-55.1'  shale; dark gray @ 54.7'					
										52				529									
										53				528									
										54				527									
										55				526									
PQ 7 5.0 5.0 2.8 100 56										56				525				10°, B, N (solutioned) @ 56.9', 57.3' 70°, J, T, Ir @ 56.9-57.2'  90°, J, N (solutioned) @ 58.0-58.5' 10°, B, N (solutioned) @ 58.0', 58.2', 58.5'  10°, B, N (solutioned) @ 59.4', 59.8', 60.2' 85°, J, N, No, No, Ir @ 59.4-60.2'					
										57				524									
										58				523									
										59				522									
										60				521									

**BLACK & VEATCH****BORING LOG**BORING NO. HM-E1  
SHEET 5 OF 6


CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 5985.3' E 4530.2'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										TOTAL DEPTH 75.5 (feet)													
SURFACE CONDITIONS Paved Parking Area										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/25/07													
SAMPLING										LOGGED BY Grainger/Mass										CHECKED BY Dogbey/Grainger										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
														60				521				BRECCIA; dolomite matrix; light gray; micritic; healed; slightly weathered; hard; w/gray dolomite; micritic clasts; w/stylolites; (Bass Islands Group). 85°,J,N,No,No,Ir @ 60.5-61.8'																					
				60.5										61				520				30°,J,N,No,No,Ir @ 61.8, 62.3'																					
														62				519				0°,B (solutioned) @ 62.2, 63.7'																					
PQ		8		5.0		5.0		2.5		100		50		63				518				70°,J,N,No,No,Ir @ 62.7'																					
														64				517				70°,J,N,No,No,Ir @ 64.0-64.3'																					
														65				516				60°,J,N (solutioned),Cl,Pa,Ir @ 65.5'																					
				65.5										66				515																									
														67				514																									
PQ		9		5.0		5.0		4.2		100		84		68				513																									
														69				512																									
														70				511				0°,B,N,H,Pa,Ir @ 69.5'																					
														71				510				0°,B,N (solutioned) @ 70.0', 70.5'																					
				70.5										72				509				DOLOMITE; light gray; micritic; slightly weathered; very strong; hard; banded; w/argillaceous partings & stylolites; (Bass Islands Group). 0°,B,T,UK,Pa,Ir @ 71.2', 73.9'																					
														73				508																									
PQ		10		5.0		5.0		4.4		100		88		74				507				fractured, solutioned @ 73.5-73.8'																					
														75				506				90°,J,T,No,No,Ir @ 73.5-74.0'																					
																						0°,B,N (solutioned) @ 73.8', 74.2'																					

Core box #5  
starts @ 65.0'Core box #6  
starts @ 73.5'

**BLACK & VEATCH****BORING LOG**

BORING NO. HM-E1

SHEET 6 OF 6

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 5985.3' E 4530.2'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										TOTAL DEPTH 75.5 (feet)																																																																															
SURFACE CONDITIONS Paved Parking Area										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/25/07																																																																															
SAMPLING										LOGGED BY <i>GC/Granger</i> TB for Granger/Mass										CHECKED BY <i>GC/Granger</i> Dodgeby/Granger										APPROVED BY <i>EM</i> Meyer																																																																															
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <td>CORING</td> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD RECOVERY</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																						
										75																				506																				pitted @ 75.0-75.1'																																																											
										76																				505																																																																															
										77																				504																																																																															
										78																				503																																																																															
										79																				502																																																																															
										80																				501																																																																															
										81																				500																																																																															
										82																				499																																																																															
										83																				498																																																																															
										84																				497																																																																															
										85																				496																																																																															
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										87																				494																																																																															
										88																				493																																																																															
										89																				492																																																																															
										90																				491																																																																															

Bottom of boring @ 75.5'. Water level at 20.2' @ completion of drilling. Boring backfilled with bentonite chips on 09/13/07.

**BLACK & VEATCH****BORING LOG**

BORING NO. PS-E1

SHEET 1 OF 3

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6164.9'										GROUND ELEVATION (DATUM) E 4247.2' 579.9 ft (NAVD 88)										TOTAL DEPTH 28.8 (feet)																																																																																																			
SURFACE CONDITIONS Hummock spoil area										COORDINATE SYSTEM Plant										DATE START 08/28/07										DATE FINISHED 08/29/07																																																																																																			
SAMPLING										LOGGED BY <i>Geo for</i> Grainger										CHECKED BY <i>Geo for</i> Dogbey/Grainger										APPROVED BY <i>EM</i> Meyer																																																																																																			
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																																							
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																											
SPT										1										1										4										8										12										0.8										0										579										Well graded SAND with Silt (SW-SM) - About 90% fine to medium sand; about 10% medium plasticity, medium toughness, no dilatancy fines; dark grayish brown; moist; (Fill).										Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.																													
SPT										2										1/18"										0										0										0										1.2										1										578										GRAVEL & COBBLES; medium dense; (Fill).										Gravel lodged @ tip of spoon.																													
SPT										2										1/18"										0										0										0										1.2										2										577																																																	
SPT										2										1/18"										0										0										0										1.2										3										576																																																	
SPT										2										1/18"										0										0										0										1.2										4										575																																																	
SPT										2										1/18"										0										0										0										1.2										5										574																																																	
SPT										2										1/18"										0										0										0										1.2										6										573																																																	
SPT										2										1/18"										0										0										0										1.2										7										572																																																	
SPT										2										1/18"										0										0										0										1.2										8										571										PEAT (PT) - About 100% plant tissue, fibrous; very soft; (Lacustrine Deposit).										8.3																													
SPT										2										1/18"										0										0										0										1.2										9										570										1" thick very dark gray fat clay; high plasticity, high toughness, no dilatancy @ 9.5'																																							
SPT										2										1/18"										0										0										0										1.2										10										569										Lean CLAY (CL) - About 94% LL=46, PL=16, no dilatancy, high dry strength fines; about 6% sand; greenish gray; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).										10.3																													
TW										3																																																																						11										568																																							
TW										3																																																																																12										567																													
TW										3																																																																																13										566																													
TW										3																																																																																14										565																													
TW										3																																																																																15										565																													

**BLACK & VEATCH****BORING LOG**

BORING NO. PS-E1

SHEET 2 OF 3

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6164.9'				GROUND ELEVATION (DATUM) E 4247.2' 579.9 ft (NAVD 88)				
SURFACE CONDITIONS Hummock spoil area				COORDINATE SYSTEM Plant				DATE START 08/28/07		DATE FINISHED 08/29/07		
SAMPLING				LOGGED BY <i>Geo for Grainger</i>				CHECKED BY <i>Geo for Dogbey/Grainger</i>		APPROVED BY <i>Geo for Meyer</i>		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	5	WOH	2	3	5	1.5	15		564			
							16		563			
							17		562			
							18		561			
							19		560			
							20		559			
							21		558			
							22		557			
							23		556			
							24		555			
							25		554			
							26		553			
							27		552			
							28		551			
							29		550			
							30					

Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium, rounded, hard gravel; dark grayish brown; firm; moist; weak reaction w/HCl; homogeneous; (Glacial Till).

grades w/few gravel @ 21.0'

Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subrounded, hard sand; very dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

grades w/few cobbles @ 27.0'

PP = 1.25 TSF @ 20.5'

Hard drilling @ 28.0'. Auger refusal at 28.8'.

Bottom of boring @ 28.8'. Water level @ 8.6' @ completion of

**BLACK & VEATCH****BORING LOG**

BORING NO. PS-E1

SHEET 3 OF 3

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6164.9' E 4247.2'										GROUND ELEVATION (DATUM) 579.9 ft (NAVD 88)										TOTAL DEPTH 28.8 (feet)																															
SURFACE CONDITIONS Hummock spoil area										COORDINATE SYSTEM Plant										DATE START 08/28/07										DATE FINISHED 08/29/07																															
SAMPLING										LOGGED BY <i>GEO for</i> Grainger										CHECKED BY <i>GEO for</i> Dogbey/Grainger										APPROVED BY <i>EM</i> Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
														30																																															
														31				549																																											
														32				548																																											
														33				547																																											
														34				546																																											
														35				545																																											
														36				544																																											
														37				543																																											
														38				542																																											
														39				541																																											
														40				540																																											
														41				539																																											
														42				538																																											
														43				537																																											
														44				536																																											
														45				535																																											

drilling.  
Backfilled w/  
bentonite chips  
on 08/29/07.

**BLACK & VEATCH**

# BORING LOG

BORING NO. RB-C1

**SHEET 1 OF 19**

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6273.2'					E 4445.3'					579.2 ft (NAVD 88)					271.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel Parking Lot										Plant					06/14/07					07/26/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Grainger/Mass					Dogbey/Mass					Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																	
							0		579		Well graded GRAVEL with Silt and Sand (GW - GM) - About 75% fine to coarse, angular, hard gravel w/ max. size 3"; about 15% fine to coarse, angular, hard sand; about 10% fines (silt); dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.																	
							1		578																				
							2		577																				
							3		576																				
							4		575																				
			5.0				5		574		cobbles @ 5.5'	Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S1 collected from S-1.																	
S	1					2.0	6		573																				
							7		572																				
							8		571																				
							9		570																				
			10.0				10		569		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; light gray & yellowish red, mottled; soft; moist; weak reaction w/HCl; (Lacustrine Deposit).	Gray clay on sonic sample barrel after 10' to 15' sample attempt.																	
							11		568																				
							12		567																				
S	2					0.0	13		566																				
							14		565																				
							15																						



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C1

SHEET 2 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07									
SAMPLING										LOGGED BY <i>for</i> Grainger/Mass										CHECKED BY <i>for</i> Dogbey/Mass										APPROVED BY <i>for</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
SPT	2	2	2	3	5	1.3	15		564		Lean CLAY with Sand (CL) - About 82% LL=37, PL=18, no dilatancy, medium dry strength fines; about 18% fine to medium sand; reddish brown & yellowish red; soft; moist; strong reaction w/HCl; homogeneous; (Glacial Till).										Set nominal 6" temporary steel casing to 15.0'. Below 15.0' continued w/ NWJ rods & 4½" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Split SPT-2 into two jars, A & B																		
P	3						20		559		Lean CLAY with Sand (CL) - About 71% LL=23, PL=13, slow dilatancy, high dry strength fines; about 27% fine to coarse, rounded to subrounded sand; about 2% fine to coarse, subangular, hard gravel; (Glacial Till).										Attempted pitcher sample @ 20', refusal to sampler @ 20.2'.																		
TW	4						22		557												Thin wall refusal @ 22.5'. PP>4.5 TSF @ 22.5'.																		
SPT	5	10	13	18	31	1.3	25		554		Sandy Silty CLAY (CL-ML) - About 52% LL=18, PL=11, slow dilatancy, high dry strength fines; about 35% fine to coarse, rounded to subrounded sand; about 13% fine to coarse, subangular, hard gravel; (Glacial Till).																												
							29		550		DOLOMITE; undifferentiated.										Tricone bit refusal @ 29.0'. Below 29.0'																		

7/21/2008 5:28 PM DTE - Fermi 3 Geotech



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C1

SHEET 3 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07													
SAMPLING										LOGGED BY Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																															
S		6										5.0		30				549																								continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	
														31				548																									
														32				547																									
														33				546																									
														34				545																									
						34.0								35				544																									
HQ		1		5.0		5.0		2.1		100		42		36				543																									
														37				542																									
														38				541																									
														39				540																									
														40				539																									
														41				538																									
HQ		2		5.0		4.9		2.9		98		58		42				537																									
														43				536																									
														44				535																									
						44.0								45																													



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C1

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)															
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07															
SAMPLING										LOGGED BY <i>Rob Grainger/Mass</i>										CHECKED BY <i>Tom Dogbey/Mass</i>										APPROVED BY <i>Em Meyer</i>															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS			
HQ		3		5.0		5.0		2.0		100		40		45				534				very closely spaced stylolites @ 44.9' 70°, J, No, No, PI, SR @ 45.0-45.4' 90°, J, Ca, Pa, WA, SR @ 45.7-47.4'																				Core box #2 starts @ 48.4'.			
HQ		4		5.0		5.0		1.9		100		38		46				533																											
HQ		5		5.0		4.2		1.7		84		34		47				532																											
HQ		4		5.0		5.0		1.9		100		38		48				531				40°, J, No, No, PI, SR @ 47.2-47.4' grades w/dolomite partings; argillaceous; dark gray, banded @ 47.4' 90°, J, Ca, Pa, PI, SR @ 47.5-48.1' 60°, J, No, No, PI, SR @ 47.6-47.9' very closely spaced stylolites @ 48.4', 48.6-48.9' 70°, J, Cl, Pa, PI, SR @ 48.8-49.2'																				Drill chatter @ 54.5'.			
HQ		4		5.0		5.0		1.9		100		38		49				530				90°, J, VN, Ca, Pa, PI, SR @ 49.7-50.5'																							
HQ		4		5.0		5.0		1.9		100		38		50				529				90°, J, UK, Pa, PI, SR @ 50.2-50.5' (2) claystone parting; black; fresh; moderately strong; medium hard; 0.03' thick @ 50.5'																							
HQ		4		5.0		5.0		1.9		100		38		51				528				DOLOMITE; dark gray; vuggy; micritic; fresh to slightly weathered; strong; very hard; some vugs filled w/calcium carbonate; (Bass Islands Group). 80°, J, Ca, Pa, PI, R @ 50.8-52.3' 90°, J, Ca, Pa, PI, SR @ 51.1-51.9' 50°, J, Ca, Pa, PI, SR @ 51.4-51.5' 0°, B, UK, Pa, PI, SR @ 52.5' 30°, J, No, No, PI, SR @ 52.7' fractured @ 53.0-53.6' 30°, J, N, PI @ 53.6'																							
HQ		4		5.0		5.0		1.9		100		38		52				527																											
HQ		4		5.0		5.0		1.9		100		38		53				526																											
HQ		4		5.0		5.0		1.9		100		38		54				525				90°, J, No, No, WA, R @ 54.6-54.8' highly fractured @ 55.1-55.6' grades grayish brown; w/closely to moderately wide spaced stylolites; fewer vugs @ 55.6'																				Core loss @ 58.2-59.1'.			
HQ		4		5.0		5.0		1.9		100		38		55				524																											
HQ		4		5.0		5.0		1.9		100		38		56				523				80°, J, No, No, PI, SR @ 56.4-56.9'																							
HQ		4		5.0		5.0		1.9		100		38		57				522				70°, J, UK, Pa, PI, SR @ 57.3-57.6' 90°, J, No, No, PI, R @ 57.7-58.0'																				No drilling fluid return @ 59.0'.			
HQ		4		5.0		5.0		1.9		100		38		58				521																											
HQ		4		5.0		5.0		1.9		100		38		59				520				highly fractured @ 59.7-60.9'																							
HQ		4		5.0		5.0		1.9		100		38		60				519																											



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C1

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07													
SAMPLING										LOGGED BY <i>Go for</i> Grainger/Mass										CHECKED BY <i>5/3 for</i> Dogbey/Mass										APPROVED BY <i>EM</i> Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		6		5.0		5.0		3.5		100		70		60				519				DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Bass Islands Group).																					
														61				518				dolomite & shale; dolomitic; white and gray, mottled; micritic to very fine grained; fresh; strong; moderately hard; 0.2' thick @ 61.9-62.1' 10°, J, Cl, Fi, Pl, SR @ 62.0'																					
														62				517																									
														63				516				DOLOMITE; oolitic; light gray; medium to coarse grained (crystalline); fresh; very strong; very hard; grains approximately 0.02-0.04" diameter; (Bass Islands Group).																					
						64.0								64				515				0°, B, UK, Fi, Pl, SR @ 65.4'																				Core box #3 starts @ 64.0'	
														65				514																									
HQ		7		5.0		5.0		4.3		100		86		66				513				DOLOMITE; light gray, banded; micritic to very fine grained; fresh; moderately strong; moderately hard; w/convoluted partings of black; very fine grained; fresh; moderately strong; moderately hard shale; (Bass Islands Group).																					
														67				512				30°, J, W, Cl, Fi, Pl, SR @ 65.7-65.8' claystone band; brecciated; gray; very fine grained; highly weathered; very weak; low hardness; 0.6" thick @ 65.9'																					
														68				511				0°, B, Cl, Fi, Pl, SR @ 66.3' shale parting; black; very fine grained; fresh; moderately strong; moderately hard @ 68.4'																					
						69.0								69				510																									
														70				509				40°, J, Ca, Pa, Pl, R @ 70.1-70.3' highly fractured @ 70.5-71.5'																					
														71				508																									
HQ		8		5.0		5.0		2.0		100		40		72				507				DOLOMITE; gray; micritic; fresh; strong; hard; w/ widely spaced stylolites; few shale partings; pitted zones; (Bass Islands Group). highly fractured @ 71.7-71.8', 72.0-72.1', 72.7-73.1' 60°, J, Ca, Pa, Pl, SR @ 72.4-72.7'																					
														73				506																									
														74				505				highly fractured @ 73.6-74.9'																				Drill chatter @ 73.5-74.0'.	
						74.0								75																													

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C1

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)																																																																																									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07																																																																																									
SAMPLING										LOGGED BY <i>for TB for</i> Grainger/Mass										CHECKED BY <i>for TB for</i> Dogbey/Mass										APPROVED BY <i>for</i> Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																	
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																
HQ										9										5.0										5.0										3.7										100										74										75										504										<p>grades light brownish gray; w/closely to moderately wide spaced stylolites @ 74.9'</p>										<p>highly fractured @ 77.7-78.0' 30°, J, Cl, Pa, PI, SR @ 78.0-78.2' 150°, J, Cl, Pa, PI, SR @ 78.2-78.5'</p>										<p>Core box #4 starts @ 79.0'</p>									
HQ										10										5.0										4.6										3.4										92										68										76										503																																							
HQ										11										5.0										2.8										0.7										56										14										77										502																																							
HQ										12										5.0										2.8										0.7										56										14										78										501																																							
HQ										13										5.0										4.6										3.4										92										68										79										500										<p>grades w/increased pitted zones; some very closely spaced stylolites @ 80.0'</p>										<p>90°, J, Ca, Pa, PI, SR @ 82.1-82.4' 30°, J, No, No, PI, SR @ 82.3-82.4' 60°, J, Ca, Pa, PI, SR @ 82.4'</p>										<p>Core loss of 2.2' @ 84.4-87.3'</p>									
HQ										14										5.0										4.6										3.4										92										68										80										499																																							
HQ										15										5.0										4.6										3.4										92										68										81										498																																							
HQ										16										5.0										4.6										3.4										92										68										82										497																																							
HQ										17										5.0										4.6										3.4										92										68										83										496										<p>highly fractured @ 84.4-87.3'</p>										<p>90°, J, Cl, Pa, WA, SR @ 87.4-87.9'</p>										<p>shale band; black; platy; very fine grained; fresh; moderately strong; hard @ 88.0-88.1' 90°, J, No, No, PI, SR @ 88.1-88.3', 88.1-88.4' (2 sets) 70°, J, No, No, PI, SR @ 88.6-88.9'</p>									
HQ										18										5.0										4.6										3.4										92										68										84										495																																							
HQ										19										5.0										4.6										3.4										92										68										85										494																																							
HQ										20										5.0										4.6										3.4										92										68										86										493																																							
HQ										21										5.0										4.6										3.4										92										68										87										492										<p>SHALE; very dark gray; fissile; platy; very fine grained; moderately to highly weathered; very weak to moderately strong; low hardness: (Bass Islands</p>										<p>SHALE; very dark gray; fissile; platy; very fine grained; moderately to highly weathered; very weak to moderately strong; low hardness: (Bass Islands</p>																			
HQ										22										5.0										4.6										3.4										92										68										88										491																																							
HQ										23										5.0										4.6										3.4										92										68										89										490																																							
HQ										24										5.0										4.6										3.4										92										68										90										490																																							



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## BORING LOG

BORING NO. RB-C1

SHEET 7 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07									
SAMPLING										LOGGED BY <i>Gofer</i> TB for Grainger/Mass										CHECKED BY <i>EM for</i> TB for Dogbey/Mass										APPROVED BY <i>EM</i> Meyer									
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	12	3.8	2.0	0.0	53	0								90			489					(Group).																	
														91			488					DOLOMITE; grayish brown; micritic; fresh; very strong; very hard; trace shale partings; (Bass Islands Group).																	
														92			487					highly fractured @ 89.5-92.8'		Drill chatter constantly @ 91.0-94.0'.															
HQ	13	1.2	0.8	0.0	67	0								93			486					90°, J, Cl, Fi, PI, SR @ 92.8-93.3'		Core barrel jammed @ 92.8'.															
														94			485					w/few widely spaced stylolites @ 92.8'																	
														95			484					highly fractured @ 94.2-94.9'		Core loss @ 94.0-94.2'.															
HQ	14	5.0	4.8	2.4	96	48								96			483					grades very fine grained (crystalline) @ 95.0'		Drill chatter @ 94.5'.															
														97			482					very closely spaced stylolites @ 95.1'																	
														98			481					90°, J, No, No, PI, SR @ 95.5-96.3'		Water level @ 19.3' prior to drilling on 07/15/07.															
														99			480					70°, J, No, No, PI, SR @ 96.3-96.4'																	
														100			479					40°, J, No, No, PI, SR @ 96.7-96.8'																	
														101			478					140°, J, No, No, PI, SR @ 96.7-96.8'																	
														102			477					0°, B, UK, Pa, PI, SR @ 96.8'																	
														103			476					vuggy @ 97.0-97.2'																	
														104			475					80°, J, No, No, PI, SR @ 97.2-97.3'																	
														105								0°, B, No, No, PI, R @ 97.3'		Core box #5 starts @ 97.9'.															
																						80°, J, Cl, Pa, PI, SR @ 97.6-98.5'																	
																						10°, J, Cl, Pa, PI, SR @ 97.7'																	
																						30°, V, MW, Cl, Fi @ 99.2-99.3'																	
																						DOLOMITE; argillaceous; gray, banded; micritic; fresh; strong; hard; w/black; very fine grained; fresh; moderately strong; moderately hard shale partings; (Bass Islands Group).																	
HQ	15	5.0	4.8	0.7	96	14																90°, J, Cl, Pa, PI, SR @ 100.8-101.5'																	
																						highly fractured @ 101.0-101.2'																	
																						highly fractured @ 101.9-102.0'																	
																						90°, J, No, No, PI, SR @ 102.0-102.1'																	
																						40°, J, Cl, Pa, PI, SIK @ 102.7-103.0'																	
																						90°, J, Cl, Pa, PI, S @ 103.5-104.0'																	
																						30°, J, Cl, Pa, PI, SR @ 104.0'																	

**BLACK & VEATCH**

# BORING LOG

**BORING NO. RB-C1**

SHEET 8 OF 19

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6273.2' E 4445.3'		579.2 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel Parking Lot		Plant		06/14/07	
SAMPLING		LOGGED BY		CHECKED BY	
Gravel Parking Lot		Grainger/Mass		Dogbey/Mass	
APPROVED BY		DATE FINISHED		REMARKS	
Meyer		07/26/07			
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
105		474		highly fractured @ 104.9-105.2'	
106		473		90° J, CI, Pa, PI, SR @ 105.7-105.8' 70° J, CI, Pa, PI, SR @ 105.8-105.9' highly fractured @ 106.0-106.8'	
107		472		80° J, Ca, Pa, PI, SR @ 106.8-107.3' 30° J, CI, FI, PI, SR @ 107.1-107.2'	
108		471		0° J, CI, FI, PI, SR @ 107.6' 10° V, N, CI, FI, PI, SR @ 107.9'	
109		470		highly fractured @ 109.9-110.1'	
110		469		DOLOMITE; light brownish gray; micritic; fresh to slightly weathered; very strong; hard; w/vuggy zones & widely spaced stylolites; (Bass Islands Group).	
111		468		90° J, CI, Pa, WA, SR @ 111.7-111.8' highly fractured @ 112.0-112.2'	
112		467		60° J, No, No, St, SR @ 112.4-112.9' 60° J, No, No, PI, SR @ 112.7-113.1'	
113		466		20° J, No, No, PI, SR @ 113.2'	Core box #6 starts @ 112.7'.
114		465		70° J, CI, Pa, PI, S @ 113.9-114.1'	
115		464		DOLOMITE; argillaceous; dark gray; very fine to fine grained; fresh; strong; moderately hard; (Bass Islands Group).	
116		463		0° B, CI, Pa, PI, SR @ 115.4-115.8'	
117		462		DOLOMITE; grayish brown; vuggy; very fine to fine grained; slightly weathered; strong; moderately hard; w/closely to very closely spaced stylolites; (Bass Islands Group).	
118		461		80° J, CI, Pa, PI, SR @ 117.7-117.8' 0° B, No, No, PI, SR @ 118.1' 20° J, Ca, Pa, PI, SR @ 118.3-118.4'	
119		460		50° J, CI, Pa, PI, SR @ 119.0-119.1'	
120				DOLOMITE & DOLOMITE; argillaceous; greenish	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C1

SHEET 9 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07													
SAMPLING										LOGGED BY GEO. R. Grainger/TBkr										CHECKED BY T. Dogbey/TBkr										APPROVED BY E. Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		19		5.0		3.7		2.2		74		44		120				459				gray (argillaceous dolomite) mottled w/grayish brown (dolomite); very fine grained; fresh to slightly weathered; strong; very hard; vugs in dolomite; (Bass Islands Group), 60° J, Cl, Pa, Pl, SR @ 119.8-119.9' joints filled w/large (0.4-0.8") anhydrite crystals @ 121.3-121.4' 30° J, anhydrite, Fi, Pl, SR @ 121.3-121.4' 140° J, anhydrite, Fi, Pl, SR @ 121.3-121.4'																					
HQ		20		5.0		3.6		0.0		72		0		124.0				455				Core loss @ 124.0-125.4'																					
HQ		21		5.0		4.0		1.4		80		28		129.0				450				Core box #7 starts @ 129.0'																					
HQ		22		5.0		4.0		1.4		80		28		134.0				445				Core loss throughout @ 134.2-138.2'																					



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C1

SHEET 10 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)																																																																															
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07																																																																															
SAMPLING										LOGGED BY <i>E. for TR kr</i> Grainger/Mass										CHECKED BY <i>E. for TR kr</i> Dogbey/Mass										APPROVED BY <i>EM</i> Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																								
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																						
HQ										22										5.0										1.8										0.0										36										0										135										444										LIMESTONE; vuggy; very dark grayish brown; very fine grained; slightly to moderately weathered; strong; moderately hard; highly fractured; (Salina Group - Unit F).																			
HQ										23										2.5										2.4										0.5										96										20										136										443																													
HQ										24										2.5										1.5										0.4										60										16										137										442																													
HQ										25										2.5										2.0										0.4										80										16										138										441										CLAYSTONE; dolomitic; dark gray; highly weathered; weak; low hardness; (Salina Group - Unit F).																			
HQ										26										2.5										2.0										0.0										80										0										139										440										gray; slightly weathered; strong; moderately hard @ 139.0 -139.8'										PP = 2.3 TSF									
HQ										26										2.5										2.0										0.0										80										0										140										439										80°, J, Cl, Fi, Pl, SR @ 139.2-139.4'										TV = 1.7 TSF @ 139.8'.									
HQ										26										2.5										2.0										0.0										80										0										141										438										very weak @ 139.8-140.5'																			
HQ										26										2.5										2.0										0.0										80										0										142										437										slightly weathered; strong; moderately hard @ 140.5-141.4'										Core loss @ 141.4-141.5'.									
HQ										26										2.5										2.0										0.0										80										0										143										436										40°, J, Cl, Fi, Pl, SR @ 140.7-140.8', 140.9-141.1'																			
HQ										26										2.5										2.0										0.0										80										0										144										435										gray; very weak; friable @ 142.5-142.9'										Discrete sample 7-A collected @ 142.5-142.9'.									
HQ										26										2.5										2.0										0.0										80										0										145										434										slightly to moderately weathered; moderately strong; moderately hard @ 142.9-143.5'																			
HQ										26										2.5										2.0										0.0										80										0										146										433										90°, J, Cl, Fi, Pl, SR @ 143.0-143.2', 143.3-143.4' w/weaker claystone @ 143.3-143.4'																			
HQ										26										2.5										2.0										0.0										80										0										147										432										grades very dark gray @ 143.5'										Core loss @ 144.0-144.5'.									
HQ										26										2.5										2.0										0.0										80										0										148										431										DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F).																			
HQ										26										2.5										2.0										0.0										80										0										149										430										90°, J, No, No, Pl, SR @ 145.1-145.6'																			
HQ										26										2.5										2.0										0.0										80										0										150										429										CLAYSTONE; dolomitic; gray; micritic; moderately weathered; weak; low hardness; slight hydrocarbon odor; w/highly fractured, argillaceous dolomite partings; (Salina Group - Unit F).										Discrete sample 7-B collected @ 147.0-149.0' for chemical analysis.									
HQ										26										2.5										2.0										0.0										80										0										151										428										strong hydrocarbon odor @ 147.0-148.0'																			
HQ										26										2.5										2.0										0.0										80										0										152										427										DOLOMITE; argillaceous; gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F).																			
HQ										26										2.5										2.0										0.0										80										0										153										426										CLAYSTONE; dolomitic; gray; moderately weathered; weak; low hardness; slight hydrocarbon odor; w/highly fractured, argillaceous dolomite partings; (Salina Group - Unit F).										Core box #8 starts @ 149.0'. Water level @									

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BORING NO. RB-C1

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07									
SAMPLING										LOGGED BY <i>TS for</i> Grainger/Mass										CHECKED BY <i>TS for</i> Dogbey/Mass										APPROVED BY <i>TS for</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	27	2.5	2.5	0.0	100	0	150		429			highly weathered; very weak to extremely weak; low hardness to friable @ 149.0-151.0'										18.1' prior to drilling on 07/16/07. Hole @ 149.0'.																	
							151		428			moderately strong; moderately hard @ 151.0-151.5'																											
			151.5				152		427			highly weathered; very weak @ 152.0-152.8'										Core loss @ 151.5-152.0'.																	
HQ	28	2.5	2.0	1.2	80	48	153		426			light greenish gray; slightly to moderately weathered; moderately strong; moderately hard @ 152.8-154.0'										Discrete sample 8-A collected @ 152.8-153.4'. Drill chatter @ 153.5-154.0'. Core loss @ 154.0-156.5'.																	
			154.0				154		425																														
							155		424																														
HQ	29	5.0	2.5	0.0	50	0	156		423			grades moderately to highly weathered; weak to very weak; hydrocarbon odor @ 156.5'																											
							157		422																														
							158		421																														
			159.0				159		420			CLAYSTONE; dolomitic; gray; moderately to highly weathered; weak; low hardness; strong hydrocarbon odor; w/highly fractured, sand- & gravel-sized fragments of dolomite partings; (Salina Group - Unit F).										Discrete sample 8-B collected @ 159.8-160.6' for chemical analysis.																	
HQ	30	2.5	2.5	0.4	100	16	160		419																														
							161		418																														
			161.5				162		417			grades very dark gray @ 161.5'																											
HQ	31	2.5	2.0	1.2	80	48	163		416			CLAYSTONE; dolomitic; gray; slightly to moderately weathered; moderately strong; moderately hard; hydrocarbon odor; w/highly fractured, sand- and gravel-sized fragments of dolomite partings; (Salina Group - Unit F).										Discrete sample 8-C collected @ 162.8-164.0'.																	
			164.0				164		415																														
							165																																



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## BORING LOG

BORING NO. RB-C1

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2'										GROUND ELEVATION (DATUM) E 4445.3' 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07									
SAMPLING										LOGGED BY <i>TS for</i> Grainger/Mass										CHECKED BY <i>TS for</i> Dogbey/Mass										APPROVED BY <i>TS for</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																
HQ	32	2.5	2.3	0.0	92	0		165		414		dolomite band; argillaceous; gray; very fine grained (crystalline); fresh; strong; hard @ 166.3-166.5' 40° J, Cl, Pa, Pl, SR @ 166.3-166.4', 166.4-166.5' 90° J, Cl, Pa, Pl, SR @ 166.3-166.5'										Discrete sample 8-D collected @ 166.5-167.5' for chemical analysis. Core box #9 starts @ 167.7'. Core barrel jammed @ 167.7'.																	
HQ	33	1.2	1.2	0.0	100	0		166		413																													
HQ	34	1.3	0.1	0.0	8	0		167		412																													
			166.5					167		411																													
			167.7					168		410																													
			169.0					169		409																													
HQ	35	2.5	1.8	0.0	72	0		170		408		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; highly weathered; very weak; friable; w/angular clasts of dolomite; argillaceous; (Salina Group - Unit F).										Drill chatter @ about 170.0'.																	
			171.5					171		407																													
			172					173		406																													
HQ	36	2.5	1.8	0.0	72	0		174		405																													
			174.0					175		404																													
HQ	37	2.5	2.2	0.0	88	0		176		403		shale parting; black; platy; very fine grained; fresh; moderately strong; moderately hard @ 175.2'										Drill chatter @ about 173.5'.																	
			176.5					177		402																													
			177					178		401																													
HQ	38	2.5	1.4	0.0	56	0		179		400		DOLOMITE; argillaceous; gray; very fine to fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F). 125° J, Cl, Fi, Pl, SR @ 176.0-176.5' 110° J, Cl, Pa, Pl, SR @ 176.4-176.5' 60° J, Cl, Pa, Pl, SR @ 176.4-176.5'										Water level @ 18.2' prior to drilling on																	
			179.0					180																															
												CLAYSTONE; dolomitic; gray; slightly to moderately weathered; moderately strong; moderately hard; hydrocarbon odor; w/highly fractured, sand- and gravel-sized fragments of dolomite partings; (Salina Group - Unit F). slight hydrocarbon odor @ about 176.9'																											
												dolomite bands; argillaceous; gray; micritic to very																											



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## BORING LOG

BORING NO. RB-C1

SHEET 13 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07									
SAMPLING										LOGGED BY <i>Granger/Mass</i>										CHECKED BY <i>Dogbey/Mass</i>										APPROVED BY <i>Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
HQ	39	2.0	0.8	0.0	40	0	180		399		fine grained; slightly weathered; strong; moderately hard to hard @ about 179.8-180.4' grades brecciated (healed) @ 180.4'	07/17/07. Hole @ 178.8'. Core loss throughout @ 179.0-181.0'.																											
			181.0				181		398																														
HQ	40	2.5	2.4	0.7	96	28	182		397		40°, J, CI, Fi, PI, SR @ 182.4-182.6'																												
			183.5				183		396		CLAYSTONE; dolomitic; very dark gray to gray; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Discrete sample 9-A collected @ 182.8-183.5'. Core loss throughout @ 183.5-186.0'.																											
HQ	41	2.5	1.0	0.0	40	0	184		395		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; dark bluish gray; moderately weathered; moderately strong; moderately hard w/angular clasts of dolomite; light brownish gray; micritic; fresh to slightly weathered; moderately strong; moderately hard; some vuggy clasts; (Salina Group - Unit F).																												
			186.0				185		394																														
HQ	42	2.5	1.7	0.4	68	16	186		393		dolomite parting; light brownish gray; micritic; slightly weathered; moderately strong; moderately hard @ 184.8'																												
			188.5				187		392		light gray; highly weathered; very weak; low hardness @ 186.8-187.2'																												
							188		391		highly fractured zone; consists of angular fragments of dolomite (as described @ 184.3') and calcite; white; micritic; fresh; strong; hard @ 187.2-188.1'																												
HQ	43	2.5	0.7	0.0	28	0	189		390			Core loss @ 188.5-190.3'.																											
							190		389																														
			191.0				191		388		dark gray; highly weathered; weak; low hardness @ 190.3-190.8'																												
HQ	44	2.5	0.0	0.0	0	0	192		387		very dark greenish gray; slightly weathered @ 190.8-191.0'																												
							193		386																														
			193.5				194		385																														
HQ	45	2.5	0.5	0.0	20	0	195		385		BRECCIA - dolomite clasts in a poorly indurated	Water level @ 17.4' prior to drilling on 07/18/07.																											

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BORING NO. RB-C1

SHEET 14 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07									
SAMPLING										LOGGED BY <i>Robert Grainger/Mass</i>										CHECKED BY <i>Tom Dogbey/Mass</i>										APPROVED BY <i>Tom Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
							195		384		claystone matrix: claystone matrix; gray; highly weathered, weak to very weak; low hardness to friable; w/angular clasts of dolomite; greenish gray to dark gray; micritic to very fine grained; fresh; strong; hard; (Salina Group - Unit F).										Core box #10 starts @ 196.0'. Core loss @ 196.0-197.2'.																		
HQ	46	2.5	1.3	0.0	52	0	196		383		grades dark gray @ about 197.2'																												
							197		382		90°, J, Ca, Fi, PI, SR @ 198.3-198.5'																												
							198		381		DOLOMITE; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).										Core loss between 199.5-199.9' and 200.5-200.9'.																		
HQ	47	2.5	1.7	0.0	68	0	199		380		grades pale yellow @ 199.7'																												
							200		379		claystone band; white; very fine grained; highly weathered; very weak; low hardness @ 200.1-200.3' 20°, J, Cl, Fi, PI, SR @ 200.3'																												
							201		378		LIMESTONE; dark olive brown & light brownish gray; pitted/vuggy; very fine to fine grained; slightly to moderately weathered; strong; moderately hard; pits/ vugs 0.02-0.4"; trace vugs filled w/anhydrite; (Salina Group - Unit F).										Core loss throughout @ 201.0-205.0'.																		
HQ	48	2.5	0.7	0.0	28	0	202		377		highly fractured (consists of angular fragments of vuggy limestone and argillaceous dolomite) @ 201.0-203.5'																												
							203		376																														
							204		375												Water level @ 17.3' prior to drilling on 07/19/07. Hole @ 206.0'. Core loss @ 206.0-207.2'.																		
HQ	49	2.5	0.9	0.0	36	0	205		374		BRECCIA - dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dolomitic; very dark gray; slightly weathered; moderately strong; moderately hard; w/angular clasts of dolomite; light gray; micritic; slightly weathered; strong; moderately hard; (Salina Group - Unit F).																												
							206		373																														
							207		372		gray; highly weathered; weak to very weak; low hardness; fewer fragments of dolomite @ 207.2-208.0'																												
HQ	50	2.5	1.3	0.0	52	0	208		371																														
							209		370																														
							210		370		w/limestone bands; dark gray; pitted; micritic; slightly weathered; strong; hard; some pits filled w/dolomite @ 208.0-208.5'																												

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C1

SHEET 15 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2'										GROUND ELEVATION (DATUM) E 4445.3'										TOTAL DEPTH 579.2 ft (NAVD 88) 271.0 (feet)													
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07													
SAMPLING										LOGGED BY <i>Granger/Mass</i>										CHECKED BY <i>Dooley/Mass</i>										APPROVED BY <i>Meyer</i>													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		52		2.5		2.3		0.0		92		0		210				369				highly fractured @ 211.2-211.6'																				Core loss @ 211.0-211.2'	
														211				368				claystone band; gray; highly weathered; weak; low hardness @ 211.5-211.6'																					
HQ		52		2.5		2.3		0.0		92		0		212				367				LIMESTONE; olive gray & very dark gray; vuggy; micritic; slightly to moderately weathered; strong; very hard; (Salina Group - Unit F).																					
														213				366				DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/fossils (ostracodes); (Salina Group - Unit F).																				Core loss @ 213.5-213.9'	
HQ		53		2.5		2.1		0.0		24		0		214				365				90° J, Cl, Pa, Pl, SR @ 213.0-213.4' claystone parting; white; highly weathered; very weak; low hardness to friable @ 213.0'																					
														215				364				40° J, Cl, Pa, Pl, SR @ 213.4-213.6', 213.6-213.7' 170° J, Cl, Pa, Pl, SR @ 213.5' 30° J, Cl, Pa, Pl, SR @ 213.5' claystone lens w/fragments of dolomite @ 214.3-214.5', 214.7-214.9'																					
														216				363				70° J, Cl, Pa, Pl, S @ 214.5-214.7' 120° J, Cl, Pa, Pl, S @ 214.5-214.6' highly fractured @ 215.2-215.4' 50° J, No, No, Pl, R @ 215.6-215.8'																				Core loss @ 216.0-217.1'	
HQ		54		5.0		3.5		0.4		70		8		217				362				CLAYSTONE; dolomitic; gray; highly weathered; very weak; low hardness; strong hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy soil fines; (Salina Group - Unit F).																					
														218				361				shale band; dark greenish gray; fissile; very fine grained; fresh; moderately strong; hard; strong hydrocarbon odor @ 218.1-218.3'																					
														219				360				85° J, No, No, Pl, R @ 218.6-218.9'																				Core box #11 starts @ 219.6'	
														220				359				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).																					
														221				358				50° J, Cl, Pa, Pl, SR @ 220.0-220.1'																				Core loss @ 221.0-223.0'	
														222				357				LIMESTONE; dark greenish gray; pitted/vuggy; micritic; slightly to moderately weathered; strong; hard; pits/vugs 0.02-0.6"; (Salina Group - Unit F).																					
HQ		55		5.0		3.0		1.4		60		28		223				356				highly fractured w/limestone & dolomite fragments @ 223.0-223.4'																					
														224				355				90° J, Cl, Fi, Pl, SR @ 223.5-223.9'																					
														225								DOLOMITE; argillaceous; light gray & light brownish gray, banded; micritic; fresh; very strong; very hard; (Salina Group - Unit F).																					

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BORING NO. RB-C1

SHEET 16 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2'										GROUND ELEVATION (DATUM) E 4445.3' 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)													
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07													
SAMPLING										LOGGED BY <i>EM for</i> Grainger/Mass										CHECKED BY <i>EM for</i> Dogbey/Mass										APPROVED BY <i>EM</i> Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
														225				354				90° J, Cl/Ca, Pa, Pl, SR @ 223.9-224.4' 135° J, Ca, Pa, Pl, SR @ 224.3-224.4'																					
HQ		56		0.5		226.0 0.5		0.0		100		0		226				353				LIMESTONE; dark greenish gray; pitted/vuggy; micritic; slightly to moderately weathered; strong; hard; pits/vugs 0.02-0.6"; (Salina Group - Unit F). highly fractured @ 224.5-224.7'																					
HQ		57		1.5		226.5 1.1		0.5		73		33		227				352				30° J, Ca, Pa, Pl, SR @ 224.7' 20° J, Ca, Pa, Pl, SR @ 225.5' 80° J, Ca, Fi, Pl, SR @ 225.7-226.0'																					
HQ		58		2.2		228.0 1.8		0.0		82		0		228				351				DOLOMITE; grayish brown; very fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F). 20° J, Ca, Pa, Pl, SR @ 226.3-226.4' 80° J, Ca, Pa, Pl, SR @ 226.3-226.5' highly fractured; some vertical fractures filled w/calcite @ 226.9-227.5'																					
HQ		59		0.8		230.2 0.8		0.0		100		0		229				350				DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard to very hard; w/zones of very closely spaced (about 2.4" apart) stylolites; (Salina Group - Unit F). 110° J, Ca, Pa, Pl, SR @ 227.5-227.6' 75° J, T, WA, @ 227.6-228.0' grades very dark greenish gray; hard; highly fractured; w/trace limestone fragments @ 228.0'																					
HQ		60		5.0		231.0 2.3		0.0		46		0		230				349				DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard to very hard; w/zones of very closely spaced (about 2.4" apart) stylolites; (Salina Group - Unit F). 110° J, Ca, Pa, Pl, SR @ 227.5-227.6' 75° J, T, WA, @ 227.6-228.0' grades very dark greenish gray; hard; highly fractured; w/trace limestone fragments @ 228.0'																					
HQ		61		1.0		233.0 1.0		0.0		100		0		231				348				DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard to very hard; w/zones of very closely spaced (about 2.4" apart) stylolites; (Salina Group - Unit F). 110° J, Ca, Pa, Pl, SR @ 227.5-227.6' 75° J, T, WA, @ 227.6-228.0' grades very dark greenish gray; hard; highly fractured; w/trace limestone fragments @ 228.0'																					
HQ		62		4.0		236.0 1.0		0.0		25		0		232				347				DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; very hard; (Salina Group - Unit F). grades grayish brown to greenish gray @ 233.7' 20° J, Ca, Fi, Pl, SR @ 233.8' 50° J, No, No, Pl, S @ 234.0-234.2'																					
														233				346				DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					
														234				345				DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					
														235				344				DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					
														236				343				DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					
														237				342				DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					
														238				341				DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					
														239				340				DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					
														240								DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60° J, No, No, Pl, S @ 234.3-234.4' 150° J, No, No, Pl, SR @ 234.3' 90° J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90° J, Cl, Pa, Pl, S @ 235.4-235.6'																					

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6273.2'					E 4445.3'					579.2 ft (NAVD 88)		271.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel Parking Lot										Plant					06/14/07		07/26/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Mass					Dogbey/Mass					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
								240		339		DOLOMITE; argillaceous; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit E). grades gray; very hard @ 239.0'									
								241		338											
								242		337		grades light brownish gray; w/dark gray shale partings @ 241.8'									
HQ	63	5.0	4.1	1.5	82	30		243		336		0°, B, CI, Fi, PI, S @ 242.6', 243.0' 60°, J, No, No, PI, SR @ 242.8' 30°, J, No, No, PI, SR @ 243.2-243.3' 140°, J, No, No, PI, SR @ 243.2-243.3'					Core box #12 starts @ 242.8'. Core loss @ 243.3-243.4'.				
								244		335		DOLOMITE; light brownish gray; pitted; micritic; fresh; very strong; very hard; w/fossils (ostracodes) dissolved to form pits; (Salina Group - Unit E). 40°, J, No, No, PI, SR @ 243.5-243.6' dense fossil beds @ 243.7', 244.2-244.5', 245.2-245.4', 246.6', 246.8' argillaceous @ 243.8-244.0', 244.7-244.8' 90°, J, No, No, PI, SR @ 244.0-244.3' 20°, J, No, No, PI, SR @ 245.2' highly fractured @ 245.2-245.5'									
								245		334											
								246		333											
								247		332		CLAYSTONE; dolomitic; pale yellow; highly weathered; very weak; low hardness to friable; hydrocarbon odor; properties comparable to low plasticity, low toughness, rapid dilatancy soil fines; (Salina Group - Unit E).					Core barrel blocked @ 247.0'				
HQ	64	5.0	4.0	3.0	80	60		248		331											
								249		330		DOLOMITE; light brownish gray; pitted; micritic; fresh; very strong; very hard; w/fossils (ostracodes) dissolved to form pits; (Salina Group - Unit E). light gray @ 247.5-251.1' claystone band; dolomitic; white; highly weathered; very weak; friable; hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 248.6-248.8' stylolites begin @ 249.7' very closely spaced stylolites @ 250.5-250.6' highly fractured @ 250.7-250.9' 90°, J, N, chert, Pa, WA, SR @ 251.0-251.2' light gray @ 251.1-255.3' 0°, J, No, No, PI, SR @ 251.2' 40°, J, No, No, PI, SR @ 251.2-251.3' 20°, J, MW, anhydrite, Fi, PI @ 251.5' 20°, J, T, PI @ 252.5-252.6' 50°, J, T, PI @ 253.1-253.5'									
								250		329											
								251		328											
								252		327											
								253		326											
HQ	65	5.0	5.0	4.3	100	86		254		325											
								255				20°, J, No, No, PI, S @ 254.7'									



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BORING NO. RB-C1

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)									
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07									
SAMPLING										LOGGED BY <i>Geo R</i> Grainger/Mass										CHECKED BY <i>Geo R</i> Dogbey/Mass										APPROVED BY <i>Geo R</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
							255		324		claystone band; dolomitic; light gray; slightly to moderately weathered; moderately strong; moderately hard @ 255.3-255.5'																												
			256.0				256		323		DOLOMITE; brown to grayish brown; micritic; fresh; very strong; very hard; w/white to light gray; fresh; moderately strong; moderately hard; convoluted gypsum partings, bands, & beds; thickest bed about 0.3' @ 256.0'; (Salina Group - Unit E). 0°, B, Gy, Fi, Ir, SR @ 256.0'	Core box #13 starts @ 256.0'.																											
HQ	66	5.0	5.0	4.0	100	80	257		322		claystone band; dolomitic; white; ighly weathered; very weak; low hardness; properties comparable to 75% low plasticity, low toughness, rapid dilatancy soil fines; 25% fine sand; moist @ 256.7-256.9'																												
							258		321		DOLOMITE; argillaceous; grayish brown & very dark gray, banded; micritic; fresh; very strong; very hard; w/shale partings & bands; (Salina Group - Unit E). claystone band; dolomitic; gray; moderately weathered; weak; moderately hard; properties comparable to low plasticity, low toughness, no dilatancy soil fines; moist @ 259.8-260.0'																												
			261.0				259		320																														
							260		319																														
							261		318		DOLOMITE; argillaceous; greenish gray; micritic; fresh to slightly weathered; very strong; very hard; w/ white; micritic; fresh; moderately strong; moderately hard; gypsum partings; partings ~ 0.1"; thickest bed @ 263.1'; (Salina Group - Unit E). 0°, B, Cl, Fi, Pl, SR @ 261.4, 261.8'																												
HQ	67	5.0	5.0	4.6	100	92	262		317		DOLOMITE; argillaceous; dark greenish gray w/thin partings of very dark grayish brown, banded; micritic; fresh; strong; very hard; w/few gypsum partings (about 0.1"); (Salina Group - Unit E). 20°, J, Cl, Pa, Pl, S @ 265.1', 265.2'																												
							263		316		grades gray @ 266.2'																												
							264		315		claystone band; dolomitic; gray; moderately weathered; weak; moderately hard; properties comparable to medium plasticity, low toughness, no dilatancy soil fines; moist @ 266.3-266.5'																												
							265		314		DOLOMITE; argillaceous; dark greenish gray w/thin partings of very dark grayish brown, banded; micritic; fresh; strong; very hard; w/few gypsum partings (about 0.1"); (Salina Group - Unit E). 0°, B, Cl, Fi, Pl, S @ 266.7'																												
			266.0				266		313		claystone band; dolomitic; white; highly weathered; very weak; low hardness; properties comparable to high plasticity, low toughness, slow dilatancy soil fines; moist @ 267.7-267.9'	Core box #14 starts @ 266.0'. Water level @ 18.9' prior to drilling on 07/26/07. Hole @ 266.0'.																											
HQ	68	5.0	4.4	3.7	88	74	267		312		DOLOMITE; grayish brown to dark gray brown;																												
							268		311																														
							269		310																														
							270																																

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C1

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 579.2 ft (NAVD 88)										TOTAL DEPTH 271.0 (feet)																															
SURFACE CONDITIONS Gravel Parking Lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/26/07																															
SAMPLING										LOGGED BY <i>WLF for TBK</i> Grainger/Mass										CHECKED BY <i>SP for TBK</i> Dogbey/Mass										APPROVED BY <i>EM</i> Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
														270			309				micritic; fresh; very strong; hard; w/convoluted gypsum partings & bands; thickness 0.1-1.2"; thickest bed @ 269.2'; (Salina Group - Unit E). argillaceous; very hard @ 268.5-268.9' highly fractured @ 270.6-270.7'																				Bottom of boring @ 271.0'. Water level @ 19.7' @ completion of drilling. Backfilled w/ bentonite chips to 39' bgs on 08/15/07. Continued w/ bentonite chips to 1' bgs then gravel to surface on 08/22/07.																				
														271			308																																												
														272			307																																												
														273			306																																												
														274			305																																												
														275			304																																												
														276			303																																												
														277			302																																												
														278			301																																												
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														280			299																																												
														281			298																																												
														282			297																																												
														283			296																																												
														284			295																																												
														285																																															



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C2

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07													
SAMPLING										LOGGED BY <i>Granger/Bonnie</i>										CHECKED BY <i>Dogbey/Bonnie</i>										APPROVED BY <i>Meyer</i>													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
S		1		1.0								1.0		0		579						BOULDERS with Cobbles and Sand - About 50% angular; spherical to elongated; very hard boulders; about 20% angular, elongate to spherical, very hard cobbles; about 20% fine to coarse, angular hard sand; gray; loose; moist; strong reaction w/HCl; homogeneous; (Fill).																				Boring advanced w/vacuum excavation. Vacuum refusal @ 1.5' on obstruction. Below 1.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample collected from S1.	
														1		578																											
														2		577																											
														3		576																											
																4		575																									
																5		574																									
																6		573																									
																7		572																									
																8		571																									
																9		570																									
																10		569																									
																10.5																											
																11		568																									
																12		567																									
																13		566																									
																14		565																									
																15																											



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C2

SHEET 2 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI				COORDINATES N 6273.2' E 4525.7'				GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)				TOTAL DEPTH 270.0 (feet)															
SURFACE CONDITIONS Gravel parking area						COORDINATE SYSTEM Plant				DATE START 06/14/07		DATE FINISHED 07/30/07															
SAMPLING						LOGGED BY <i>Granger/Bonnie</i>				CHECKED BY <i>Dogbey/Bonnie</i>				APPROVED BY <i>Meyer</i>													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS				REMARKS	
TW		4										1.4		15		564						Lean CLAY (CL) - About 88% LL=38, PL=18, slow dilatancy, high dry strength fines; about 12% fine to medium sand; dark grayish brown; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).				Below 15.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 4.0 TSF @ 17.0'.	
SPT		5		6		10		12		22		NR		20		559						Lean CLAY with Sand (CL) - About 81% LL=25, PL=13, no dilatancy, high dry strength fines; about 18% fine to coarse, rounded to subrounded, hard sand; about 1% gravel; dark gray; hard; moist; homogeneous; (Glacial Till).				20.3	
														21		558						gravel layer @ 23.0' & 24.5'					
														22		557											
														23		556											
														24		555											
														25		554											
P		6										2.0		26		553											
														27		552						grades w/ cobbles					
														28		551											
														29		550										Tricone bit refusal @ 29.0' Below 29.0'	
														30													



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C2

SHEET 3 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6273.2'		GROUND ELEVATION (DATUM) E 4525.7'		579.3 ft (NAVD 88)		TOTAL DEPTH 270.0 (feet)	
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/30/07			
SAMPLING				LOGGED BY <i>Boyle</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>Boyle</i> Dogbey/Bonnie <sup>TB</sup>		APPROVED BY <i>Boyle</i> Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
CORING											
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG				CLASSIFICATION OF MATERIALS				REMARKS
30		549					DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; very hard; (Bass Islands Group).				continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1.
31		548									
32		547									
33		546									
34	HQ	545									Set nominal 6" temporary steel casing to 33.8'. Below 34.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 10.2' prior to drilling on 06/26/07..
35		544									
36	HQ	543									Water level @ 13.2' prior to drilling on 07/16/07. Core box #1 starts @ 34.0'.
37		542									
38	HQ	541									DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group). 30°, J, T, No, No, PI, R @ 38.5-38.6' 90°, J, VN, No, No, PI, R @ 38.6-38.7' 0°, J, VN, No, No, PI, R @ 38.6', 37.9'
39		540									
40		539									0°, J, VN, CI, Pa, PI, R @ 40.2', 40.7', 42.95' 90°, J, T, No, No, PI, SR @ 40.0-40.2', 40.7-41.2', 42.1-42.9' 50°, J, T, No, No, PI, SR @ 40.7-41.0', 43.6-43.8', 44.4-44.6'
41		538									
42		537									0°, J, T, UK, Pa, PI, SR @ 41.2', 42.1' 60°, J, T, No, No, PI, SR @ 41.5-42.1' grades brownish gray @ 41.8' 90°, J, T, No, No, PI, SR @ 42.1-42.9' grades light brownish gray @ 42.2'
43		536									
44		535									0°, J, T, UK, Pa, PI, SR @ 43.3' 50°, J, T, No, No, PI, SR @ 43.6-43.8'
45		535									
45	HQ	535									0°, J, T, UK, Pa, PI, SR @ 44.4' 50°, J, T, No, No, PI, SR @ 44.4-44.6'

# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C2

**SHEET 4 OF 19**

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6273.2'					E 4525.7'					579.3 ft (NAVD 88)		270.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking area										Plant					06/14/07		07/30/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Bonnie					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	5	5.0	5.0	1.2	100	24	45.0		534		highly fragmented @ 44.6-45.0'		Water level @ 7.6' prior to drilling on 07/17/07.								
							46.0		533		highly fractured @ 45.2-46.0'										
							46.5		532		DOLOMITE; gray & very dark gray (mottled); micritic; fresh; strong; hard; (Bass Islands Group).										
							47.0		531		DOLOMITE; gray; micritic; fresh; strong; hard; w/ fossils; (Bass Islands Group).										
							47.5		530		30°, J, VN, No, No, WA, R @ 46.1-46.2', 46.4-46.5'										
							48.0		529		10°, J, VN, No, No, PI, R @ 46.7'										
							48.5		528		80°, J, VN, UK, Pa, SR @ 47.2-47.6', 46.7-46.8'										
							49.0		527		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/fossils; (Bass Islands Group).										
							49.5		526		0°, J, VN, No, No, PI, SR @ 48.1', 45.2'										
							50.0		525		0°, J, VN, CI, Pa, PI, SR @ 49.0'										
HQ	6	5.0	4.5	1.6	90	32	50.0		524		10°, J, T, No, No, PI, SR @ 50.7', 53.6'		Core box #2 starts @ 50.0'.								
							51.0		523		0°, J, T, No, No, PI, SR @ 51.1', 51.4', 51.6', 52.1', 52.4'										
							52.0		522												
							53.0		521		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).										
							54.0		520		0°, J, T, No, No, PI, SR @ 52.7'										
							55.0		519		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).										
							56.0		518		90°, J, VN, No, No, PI, SR @ 53.2-53.6'										
							57.0		517		0°, J, T, No, No, PI, SR @ 53.2', 54.7', 54.35'										
							58.0		516		grades to w/stylolites @ 53.7'										
							59.0		515		0°, J, T, No, No, PI, SR @ 55.3'										
HQ	7	5.0	5.0	2.6	100	52	55.0		514		fragmented @ 55.5-56.1'										
							56.0		513		70°, J, T, No, No, PI, SR @ 56.1-56.15', 56.35-56.4'										
							57.0		512		partially brecciated @ 56.5-57.0'										
							58.0		511												
							59.0		510		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).										
							60.0		509		0°, J, T, No, No, PI, SR @ 58.6', 58.9', 59.25'										
							61.0		508		SHALE; dolomitic; dark gray; platy; fresh; moderately strong; moderately hard; (Bass Islands Group).										
							62.0		507												
							63.0		506												
							64.0		505												

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																																																																																									
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07																																																																																									
SAMPLING										LOGGED BY Grainger/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																	
HQ										8										5.0										5.0										2.8										100										56										60.0										60										519										DOLOMITE; mottled light gray & very dark gray; (Bass Islands Group).																			
HQ										9										2.3										2.2										0.4										95										17										65.0										61										518										DOLOMITE; oolitic; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, Pl, SR @ 60.2', 62.2'																			
HQ										10										1.0										1.0										0.0										100										0										67.3										62										517										shale parting @ 62.05'																			
HQ										11										1.7										0.1										0.0										5										0										68.3										63										516										BRECCIA; indurated; gray; coarse grained to micritic; fresh; strong; hard; dolomite clasts & matrix; (Bass Islands Group). 30°, J, VN, No, No, Pl, R @ 62.6-62.7' Claystone; soft @ 62.9-63.0' fragmented @ 63.0-63.2' shale parting (.1" thick) @ 63.3'																			
HQ										12										0.2										0.2										100										0										70.0										64										515										BRECCIA; indurated; light gray; micritic; very coarse grained; laminar bedding; fresh; strong; hard; dolomite clasts & matrix; (Bass Islands Group). 0°, J, T, No, No, Pl, SR @ 63.7', 64.35', 64.6', 64.85' coarser grained @ 64.5-65.0'																													
HQ										13										4.8										4.8										4.6										100										96										70.2										65										514										DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, VN, Ca, Pa, SR @ 65.4' 0°, J, VN, Cl, Pa, SR @ 65.2', 65.7', 65.9', 66.2', 66.4', 66.9' Claystone, soft @ 67.1-67.2' fragmented @ 67.3-67.5', 67.6-67.8' light brownish gray @ 67.4-67.5' shale partings @ 67.8-68.6' 90°, J, T, No, No, Ir, R @ 67.9-68.3'																			
HQ										14										5.0										5.0										5.0										100										100										71.0										66										513										brecciated, healed (coarse grained to fine) @ 70.5-70.7' grades light brownish gray @ 70.5' 30°, J, VN, Cl, Pa, WA, SR @ 70.5-70.6' shale parting, wavy @ 70.5' 20°, J, VN, Cl, Pa, WA, SR @ 70.9-71.6' grades to w/stylolites @ 71.5' brecciated, healed (very coarse to fine grained) @ 71.9-72.4' 0°, J, T, No, No, Ir, R @ 72.0', 72.3'																			
HQ										15										5.5										5.5										5.5										100										100										72.0										67										512										some anhydrite filled vugs @ 74.5-75.0'																			
HQ										16										6.0										6.0										6.0										100										100										73.0										68										511																													
HQ										17										6.5										6.5										6.5										100										100										74.0										69										510																													
HQ										18										7.0										7.0										7.0										100										100										75.0										70										509																													
HQ										19										7.5										7.5										7.5										100										100										76.0										71										508																													
HQ										20										8.0										8.0										8.0										100										100										77.0										72										507																													
HQ										21										8.5										8.5										8.5										100										100										78.0										73										506																													
HQ										22										9.0										9.0										9.0										100										100										79.0										74										505																													
HQ										23										9.5										9.5										9.5										100										100										80.0										75										504																													



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C2

SHEET 6 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6273.2'		GROUND ELEVATION (DATUM) E 4525.7'		TOTAL DEPTH 270.0 (feet)				
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/30/07				
SAMPLING				LOGGED BY Grainger/Bonnie <sup>TB</sup>		CHECKED BY Doggby/Bonnie <sup>TB</sup>		APPROVED BY Meyer <sup>em</sup>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	14	5.0	5.0	4.7	100	94	75		504		30°, J, T, No, No, PI, SR @ 75.3'	
							76		503		breccia, healed; coarse to fine grained; dolomite clasts & matrix @ 75.7-75.9',	
							77		502		BRECCIA; healed; coarse to fine grained; dolomite clasts & matrix; (Bass Islands Group) 30°, J, VN, UK, Pa, WA, SR @ 76.3'	
							78		501		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites (Bass Islands Group). breccia, healed; coarse to fine grained; dolomite clasts & matrix @ 77.1-77.5' 10°, J, VN, UK, Pa, PI, SR @ 77.2'	
							79		500		BRECCIA; healed; coarse to fine grained; dolomite clasts & matrix; (Bass Islands Group)	
							80		499		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites (Bass Islands Group). 10°, J, VN, CI, Pa, PI, SR @ 79.2'	Core box #4 starts @ 80.0'.
							81		498		0°, J, T, CI, Sp, PI, SR @ 80.4'	
							82		497		20°, J, T, CI, Sp, PI, SR @ 80.7', 80.9'	
HQ	15	5.0	5.0	2.4	100	48	83		496		15°, J, N, CI, FI, WA, SR @ 81.5'	
							84		495		0°, J, T, No, No, PI, SR @ 81.9', 82.1', 83.0', 84.9'	
							85		494		siltstone band; white; micritic to very fine grained; highly weathered; very weak; friable; properties comparable to (ML), 100% low plasticity, low toughness, slow dilatancy, soil fines; firm; strong reaction w/HCl @ 82.7-82.9' fractured @ 82.9-83.1'	Discrete sample 4A taken from HQ15 @ 82.7-82.9'.
							86		493		60°, J, T, No, No, PI, SR @ 83.5-83.6', 83.6-83.7' 90°, J, T, No, No, PI, SR @ 83.5-83.6' 0°, J, VN, CI, Pa, WA, SR @ 83.9', 84.5' 10°, J, N, No, No, PI, R @ 84.1'	
							87		492		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; 5% vuggy; (Bass Islands Group). 10°, J, VN, CI, Sp, PI, SR @ 85.1', 87.6' grades no vugs @ 85.1'	
							88		491		dolomite; brecciated, healed; fine to medium grained @ 85.3-85.4', 89.3-89.4'	
HQ	16	5.0	5.0	2.5	100	50	89		490		SHALE; very dark gray; fresh; moderately strong; moderately hard; (Bass Islands Group).	
							90				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, VN, No, No, WA, SR @ 86.1', 86.3', 86.5', 87.8', 88.0' fractured @ 86.3-86.8' 90°, J, T, No, No, PI, SR @ 86.3-86.8' 20°, J, VN, CI, Sp, WA, SR @ 87.1'	



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 7 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6273.2' E 4525.7'				GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)				TOTAL DEPTH 270.0 (feet)	
SURFACE CONDITIONS Gravel parking area						COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/30/07			
SAMPLING						LOGGED BY <i>Graininger/Bonnie TB</i>		CHECKED BY <i>Dogbey/Bonnie TB</i>		APPROVED BY <i>Meyer</i>			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	17	5.0	5.0	4.1	100	82	90		489		0°, J, N, CI, FI, PI, SR @ 88.5' 10°, J, N, No, No, PI, SR @ 89.6' 30°, V, VN, CI, FI, PI, SR @ 90.2-90.3' siltstone band; very fine grained; white; highly weathered; very weak; friable; properties comparable to (ML) low plasticity, medium toughness, slow dilatancy soil fines; firm; @ 90.8-91.0' 0°, J, VN, CI, Pa, WA, R @ 91.6' 90°, J, T, No, No, PI, R @ 91.8-92.1' 60°, J, T, No, No, WA, R @ 91.8' siltstone band; very fine grained; light gray; highly weathered; very weak; friable; properties comparable to low plasticity, medium toughness, slow dilatancy soil fines; firm; @ 92.1-92.15' breccia; depositional; carbonate; grayish brown & very dark gray @ 92.5-92.8' 0°, J, T, No, No, PI, SR @ 94.0' grades w/stylolites @ 94.3'	Water level @ 21.8' prior to drilling on 07/27/07.	
							91		488				
							92		487				
							93		486				
							94		485				
							95		484				
HQ	18	5.0	5.0	1.5	100	30	96		483		BRECCIA, poorly indurated SILTSTONE matrix; very fine grained; light gray; completely weathered; weak; friable; w/clasts of dolomite, light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).	Core box #5 starts @ 94.0'.	
							97		482		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, T, No, No, PI, SR @ 97.05-97.2', 98.5-99.1'		
							98		481				
							99		480				
							100		479				
HQ	19	5.0	5.0	4.2	100	84	101		478	0°, J, VN, CI, Sp, PI, SR @ 100.2'  90°, J, T, No, No, PI, SR @ 100.8-100.9', 101.2-101.4' 0°, J, VN, No, No, PI, SR @ 100.8', 100.9', 101.1', 101.2', 101.4'			
							102		477				
							103		476	20°, J, T, No, No, PI, SR @ 102.3-102.35'  0°, J, N, CI, FI, PI, SR @ 102.9'			
							104		475				
							105		475	10°, J, N, anhydrite, FI, PI, SR @ 103.95' 10°, J, N, CI, FI, PI, SR @ 104.0'			

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 8 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)									
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07									
SAMPLING										LOGGED BY <i>Grainger/Bonnie</i> <sup>7B</sup>										CHECKED BY <i>Dogbey/Bonnie</i> <sup>7B</sup>										APPROVED BY <i>Meyer</i> <sup>82</sup>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	20	5.0	5.0	2.9	100	58	105.0		474		dark gray shale & light gray anhydrite band @ 105.0-105.35' 90°, J, T, Cl, Sp, WA, SR @ 105.35-105.9' 0°, J, T, Cl, Sp, PI, SR @ 105.5', 106.2'	Core box #6 starts @ 107.3'.																											
							106		473		40°, J, T, No, No, PI, SR @ 106.4-106.5'																												
							107		472		siltstone band; light gray; very fine grained; highly weathered; very weak; friable; @ 107.1-107.2' 0°, J, T, UK, Pa, PI, SR @ 107.1', 107.2', 107.3', 107.4'																												
							108		471		0°, J, T, No, No, PI, SR @ 108.0', 109.3'																												
							109		470																														
							110		469		10°, J, VN, Cl, Sp, PI, SR @ 109.6'																												
HQ	21	5.0	5.0	4.75	100	95	110.0		468		grades w/2% vugs @ 111.4'																												
							112		467		grades w/5% vugs @ 112.6'																												
							113		466		grades w/2% vugs @ 113.0'																												
							114		465		grades w/no vugs @ 113.6' shale parting @ 113.7' 0°, J, VN, No, No, WA, SR @ 114.1' 0°, J, VN, Cl, Sp, PI, R @ 114.3'																												
HQ	22	5.0	5.0	3.4	100	68	115.0		464		10°, J, VN, No, No, Ir, R @ 116.5'																												
							116		463																														
							117		462																														
							118		461		DOLOMITE; light gray; micritic; highly weathered; weak; friable; (Bass Islands Group).	Discrete sample 6A taken from HQ22 @ 118.6-118.95'. Core box #7 starts @ 119.3'.																											
							119		460		DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group).																												
							120				CLAYSTONE; gray; highly weathered; weak; friable; (Salina Group - Unit F).																												



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C2

SHEET 9 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																																																																																									
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07																																																																																									
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																																																																									
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																
HQ										23										5.0										4.8										1.1										96										22										120.0										120										459										CLAYSTONE; dark gray; fresh; strong; hard; (Salina Group - Unit F). grades very dark gray @ 119.8' 90° J,T,No,No,PI,SR @ 120.4-121.4', 121.7-122.5' grades interbedded dolomite; dark gray @ 120.4' 0° J,T,No,No,PI,SR @ 120.8', 120.9', 120.4', 121.0', 121.05', 121.15', 121.3', 121.4', 121.7', 121.9', 122.05', 122.1', 122.2', 122.3', 122.5', 123.0', 123.2', 123.7' grades not interbedded @ 121.8' grades interbedded w/dolomite @ 122.5' highly weathered; weak; friable @ 122.6-122.7'																			
HQ										24										5.0										4.1										0.7										82										14										125.0										125										454										DOLOMITE; argillaceous; very dark grayish brown; micritic; fresh, strong; hard; w/anhydrite bedding; (Salina Group - Unit F). claystone band; highly fractured; very dark gray; moderately weathered (no discoloration); moderately strong; hard @ 124.4-124.6'																			
HQ										25										4.2										3.7										0.0										88										0										130.0										130										449										LIMESTONE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). highly weathered @ 130.1-130.9'																			
HQ										26										0.8										0.3										0.0										37										0										134.2										134										445										10° J,T,No,No,PI,SR @ 128.3' DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90° J,T,No,No,Ir,SR @ 128.7-129.3'																			
HQ										26										0.8										0.3										0.0										37										0										134.2										135										445										highly weathered @ 133.2' 90° J,VN,No,No,PI,SR @ 133.3-133.5', 133.6-133.7'																			
HQ										26										0.8										0.3										0.0										37										0										134.2										135										445										CLAYSTONE; gray; fresh; weak; moderately hard;																			

Core box #8 starts @ 131.9'.

Water level @ 21.5' prior to drilling on

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 10 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																																																					
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07																																																					
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> <sup>773</sup>										CHECKED BY <i>Dogbey/Bonnie</i> <sup>773</sup>										APPROVED BY <i>Meyer</i>																																																					
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HQ 27 5.0 4.5 1.6 90 32							135.0										135										444										(Salina Group - Unit F).  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  CLAYSTONE; calcareous; gray; fresh; strong; hard; (Salina Group - Unit F).  grades gray @ 139.3'  LIMESTONE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). anhydrite nodules @ 139.6-139.8' 90°, J, VN, Ca, Pa, PI, SR @ 139.8-140.0'  DOLOMITE; light brownish gray; slightly weathered (no discoloration); strong; hard; (Salina Group - Unit F). 0°, J, VN, UK, Fi, PI, SR @ 141.9' fractured @ 142.0-142.3'  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, T, No, No, PI, SR @ 143.1-143.5' 0°, J, T, No, No, PI, SR @ 143.1', 143.3', 143.5', 143.55', 143.7' fractured @ 143.7-144.0' 30°, J, VN, UK, Pa, Ir, R @ 144.2-144.3' 0°, J, VN, UK, Pa, PI, SR @ 144.15', 144.3'  CLAYSTONE; bluish gray; slightly weathered (no discoloration); moderately strong; moderately hard; w/dolomite & limestone interbedding; (Salina Group - Unit F). fractured @ 144.8-145.0' dolomite band; gray; @ 146.0-146.2' fractured @ 146.0-146.2', 146.4-146.6' dolomite; gray; @ 146.4-146.8' 40°, J, T, No, No, PI, SR @ 146.4-146.5' 90°, J, T, No, No, PI, SR @ 146.5-146.7' 10°, J, T, No, No, PI, SR @ 146.35-146.4' 20°, J, T, No, No, PI, S @ 146.8' 20°, J, T, No, No, PI, SR @ 147.9'										136										443										Sample 8A taken from HQ30 @ 148.1-149.15'																
							137										442																																																																		
							138										441																																																																		
							HQ 28 5.0 2.4 0.0 48 0							139										440										HQ 29 2.5 2.2 0.0 88 0													140										439																										
141														438										142																				437																																							
143														436										144																				435																																							
145														434										146																				433																																							
HQ 30 2.5 2.5 1.2 100 48							147										432										148										431																																														
							149										430										150										429																																														

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
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HQ										31										5.0										3.5										1.7										70										34										150.0										150										429										<p>limestone band; gray; micritic; fresh; moderately strong; moderately hard; @ 152.65-152.8'</p> <p>dolomite band; gray; micritic; fresh; strong; hard; @ 153.6-153.8'</p> <p>grades highly weathered; comparable properties to medium plasticity, medium toughness, no dilatancy soil fines; soft consistency @ 155.0</p> <p>grades slightly weathered (no discoloration); low hardness; comparable properties no longer apply @ 157.5'</p> <p>DOLOMITE; gray; (Salina Group - Unit F).</p> <p>90°, J, T, No, No, Pl, SR @ 162.0-162.2' (2 perpendicular joints)</p> <p>CLAYSTONE; bluish gray; slightly weathered (no discoloration); moderately strong; moderately hard; w/ dolomite &amp; limestone interbedding; (Salina Group - Unit F).</p> <p>dolomite band @ 162.8-162.9'</p> <p>dolomite band @ 163.5-163.6'</p> <p>90°, J, T, No, No, Pl, SR @ 163.5-163.6'</p> <p>90°, J, VN, UK, Pa, WA, SR @ 163.8-163.9'</p>										<p>Core box #9 starts @ 150.7'.</p> <p>Discrete sample 9A taken from HQ31 @ 154.4-154.9'. PP = 2.0 TSF @ 155-156'. Discrete sample 9B taken from HQ32 @ 155.5-156.0'.</p>									
HQ										32										5.0										2.0										0.9										40										18										155.0										151										428																													
HQ										33										2.5										1.8										1.0										72										40										160.0										152										427																													
HQ										34										2.5										2.2										0.9										80										36										162.5										153										426																													
HQ										35										2.5										2.2										0.9										80										36										162.5										154										425																													
HQ										36										2.5										2.2										0.9										80										36										162.5										155										424																													
HQ										37										2.5										2.2										0.9										80										36										162.5										156										423																													
HQ										38										2.5										2.2										0.9										80										36										162.5										157										422																													
HQ										39										2.5										2.2										0.9										80										36										162.5										158										421																													
HQ										40										2.5										2.2										0.9										80										36										162.5										159										420																													
HQ										41										2.5										2.2										0.9										80										36										162.5										160										419																													
HQ										42										2.5										2.2										0.9										80										36										162.5										161										418																													
HQ										43										2.5										2.2										0.9										80										36										162.5										162										417																													
HQ										44										2.5										2.2										0.9										80										36										162.5										163										416																													
HQ										45										2.5										2.2										0.9										80										36										162.5										164										415																													
HQ										46										2.5										2.2										0.9										80										36										162.5										165										415																													

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 12 OF 19

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SAMPLING										LOGGED BY <i>Bo Per</i> Grainger/Bonnie <sup>73</sup>										CHECKED BY <i>Bo Per</i> Dogbey/Bonnie <sup>73</sup>										APPROVED BY <i>Bo Per</i> Meyer																																																																																																																																																																																																																																																																																																																																																																																	
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HQ										35										5.0										2.2										0.0										44										0										165.0										166										167										168										169										170										171										172										173										174										175										176										177										178										179										180										414										413										412										411										410										409										408										407										406										405										404										403										402										401										400										<p>60° J, VN, CI, Pa, PI, SR @ 164.8-164.85' dolomite @ 164.8-164.9' grades highly weathered @ 165.0'</p> <p>DOLOMITE; (Salina Group - Unit F). 90° J, T, No, No, PI, SR @ 167.0-167.4' 30° J, T, No, No, PI, SR @ 167.1-167.3' fractured @ 167.1-167.4' 60° J, T, No, No, PI, SR @ 167.5-167.8'</p> <p>CLAYSTONE; bluish gray; slightly weathered; moderately strong; moderately hard; w/dolomite &amp; limestone interbedding; (Salina Group - Unit F).</p> <p>dolomite @ 173.1-173.4' fractured @ 173.1-173.4'</p> <p>BRECCIA; poorly indurated; claystone; calcareous; bluish gray; fresh; weak; low hardness; w/clasts of dolomite; (Salina Group - Unit F).</p> <p>dolomite band @ 177.5-177.9' grades non-calcareous claystone @ 177.9'</p>										<p>Water level @ 19.6' prior to drilling on 07/29/07.</p> <p>Core box #10 starts @ 175.0'.</p> <p>Runs 38 &amp; 39 - possibly soft material washing out during drilling.</p> <p>Sample 10A taken from HQ40 @ 179.05-179.3'.</p>									
HQ										36										2.5										0.6										0.0										24										0										170.0										171										172										173										174										175										176										177										178										179										180										409										408										407										406										405										404										403										402										401										400																																																																																																																																	
HQ										37										2.5										0.5										0.0										20										0										172.5										173										174										175										176										177										178										179										180										406										405										404										403										402										401										400																																																																																																																																																																																			
HQ										38										1.0										0.0										0.0										0										0										175.0										176										177										178										179										180										404										403										402										401										400																																																																																																																																																																																																																																					
HQ										39										1.5										0.0										0.0										0										0										176.0										177										178										179										180										403										402										401										400																																																																																																																																																																																																																																																									
HQ										40										2.5										2.4										1.3										96										52										177.5										178										179										180										402										401										400																																																																																																																																																																																																																																																																													



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C2

SHEET 13 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																																															
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HQ 41 2.5 2.4 0.0 96 0										180.0										180										399										BRECCIA; indurated; limestone matrix; grayish brown; micritic; fresh; moderately strong; moderately hard; w/dolomite clasts; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, J, T, No, No, PI, SR @ 180.5', 180.9', 181.1' 30°, J, T, No, No, PI, SR @ 180.6-180.7' 10°, J, T, No, No, PI, SR @ 181.2', 181.3', 181.7', 181.9', 182.0'																																					
HQ 42 2.5 2.5 0.5 100 20										182.5										183										396										0°, J, VN, No, No, PI, R @ 182.65', 184.2' 10°, J, VN, No, No, PI, SR @ 182.7', 183.8', 184.7' 30°, J, VN, No, No, WA, SR @ 183.1', 183.35'																																					
										185.0										185										394										0°, J, VN, No, No, PI, SR @ 185.5', 186.1', 186.4'																																					
HQ 43 5.0 4.7 2.3 94 46																				186										393										CLAYSTONE; gray; slightly weathered; moderately strong; medium hard; w/carbonate bands; (Salina Group - Unit F).																																					
																				187										392										fractured @ 187.9-188.2'																																					
																				188										391										10°, J, VN, No, No, PI, SR @ 188.5', 188.6' 60°, J, VN, No, No, PI, SR @ 188.5-188.7'																																					
																				189										390																																															
HQ 44 5.0 4.5 2.7 90 54										190.0										190										389																																															
																				191										388										LIMESTONE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																					
																				192										387										DOLOMITE; light brownish gray; w/interbedded limestone; 10° bedding; (Salina Group - Unit F).																																					
																				193										386										LIMESTONE; bluish gray; micritic; fresh; strong; hard; 15% vugs; (Salina Group - Unit F). 0°, J, VN, No, No, PI, SR @ 192.8', 193.15', 193.8', 193.9' grades 10% vugs @ 193.5'										Core box #11 starts @ 192.7'.																											
																				194										385										DOLOMITE; light brownish gray w/interbedded limestone; 10° bedding; (Salina Group - Unit F).																																					
																				195										384																																															



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C2

SHEET 14 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																																																																																																																																																																																													
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SAMPLING										LOGGED BY Grainger/Bonnie <sup>TB</sup>										CHECKED BY Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Meyer <sup>EM</sup>																																																																																																																																																																																													
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**BLACK & VEATCH**

## BORING LOG

**BORING NO. RB-C2**

SHEET 15 OF 19

CLIENT		PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH		
Detroit Edison		Monroe, MI		N 6273.2'		E 4525.7'		579.3 ft (NAVD 88)		
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START		DATE FINISHED				
Gravel parking area		Plant		06/14/07		07/30/07				
SAMPLING		LOGGED BY		CHECKED BY		APPROVED BY				
		Grainger/Bonnie		Dogbey/Bonnie		Meyer				
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS		REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD				
HQ	48	5.0	5.0	1.9	100	38	210.0	210	369	highly weathered; weak; low hardness @ 209.7-209.8'
							211	368	80°, J, T, No, No, PI, SR @ 210.05-210.3'	
							212	367	highly weathered; weak; low hardness @ 210.6-210.7'	
							213	366	shale parting @ 210.75'	
							214	365	highly weathered; extremely weak; low hardness @ 211.4-211.9'	
							215	364	DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							216	363	DOLOMITE; dark gray; micritic; weak; low hardness; (Salina Group - Unit F).	
							217	362	DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							218	361	LIMESTONE; gray; micritic; fresh; strong to very strong; hard; (Salina Group - Unit F).	
							219	360	fragmented @ 213.8-214.0'	
HQ	49	5.0	4.0	1.3	80	26	215.0	220	10°, J, T, No, No, PI, SR @ 214.0'	
							221	359	DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/limestone layers; (Salina Group - Unit F).	
							222	358	90°, J, VN, Ca, Pa, PI, SR @ 214.1-214.3', 214.5-214.9', 216.1-216.3', 216.4-216.5', 216.5-217.3'	
							223	357	10°, J, VN, Ca, Pa, PI, SR @ 214.6'	
							224	356	limestone band; dark grayish brown; micritic; fresh; strong; hard @ 216.4-216.5'	
							225	355	0°, J, T, No, No, PI, SR @ 216.6', 216.7', 216.9', 217.2', 218.2', 217.85', 217.95'	
							226	354	LIMESTONE; dark grayish brown; micritic; fresh; strong hard; (Salina Group - Unit F).	
							227	353	DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/limestone layers; (Salina Group - Unit F).	
							228	352	0°, J, T, No, No, PI, SR @ 218.7'	
							229	351	grades dark gray @ 218.9'	
							230	350	LIMESTONE; dark grayish brown; micritic; fresh; strong; hard; 5% vugs; (Salina Group - Unit F).	
							231	349	0°, J, T, No, No, PI, SR @ 220.3'	
							232	348	80°, J, T, No, No, PI, SR @ 220.4-220.6'	
							233	347	50°, J, T, No, No, PI, SR @ 220.5-220.65'	
							234	346	DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							235	345	grades light grayish brown @ 221.3'	
							236	344	claystone band @ 221.5-221.7'	
							237	343	LIMESTONE; dark grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							238	342	DOLOMITE; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							239	341	0°, J, T, No, No, PI, SR @ 224.0', 224.5', 224.8'	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 16 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07													
SAMPLING										LOGGED BY Grainger/Bonnie TP										CHECKED BY Dobbey/Bonnie TP										APPROVED BY Meyer EM													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																							
HQ		51		5.0		2.7		1.0		54		20		225				354				fossils @ 224.0-224.3' 0°, J, T, No, No, PI, SR @ 225.35', 225.6', 225.65'																					
														226				353				10°, J, T, No, No, PI, SR @ 226.05'																					
														227				352				CLAYSTONE; gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).																					
														228				351				DOLOMITE; grayish brown; fresh; strong; hard; (Salina Group - Unit F).																					
														229				350				CLAYSTONE; gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).																					
														230				349				grades very weak to extremely weak; w/properties comparable to medium plasticity, medium toughness, no dilatancy soil fines; soft to firm; moist																					
														231				348				grades slightly weathered; comparable soil properties no longer apply @ 231.0'																					
														232				347																									
														233				346																									
														234				345				dolomite band; dark gray @ 234.0-234.2'																					
														235				344																									
														236				343				DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 70°, J, VN, CI, Pa, PI, SR @ 236.5-236.7' 0°, J, VN, No, No, PI, SR @ 236.7'																				236.0' - 0.9 PPM, PID reading, reading in bagged sample	
														237				342																									
														238				341				CLAYSTONE; gray; micritic; slightly to highly weathered (no discoloration); weak to extremely weak; low hardness to soft; (Salina Group - Unit F). dolomite band; dark gray; fragmented @ 238.2-238.4' grades slightly to moderately weathered (no discoloration); weak; low to moderately hard @ 239.0'																				Core box #14 starts @ 238.3'.	
														239				340																									
														240																													

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C2****SHEET 17 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																																																					
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07																																																					
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> <sup>TB</sup>										CHECKED BY <i>Dogbey/Bonnie</i> <sup>TD</sup>										APPROVED BY <i>Meyer</i>																																																					
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HQ 55 5.0 4.5 2.75 90 55							240										339																				Discreate jar sample 14A taken from HQ55 @ 240.0-240.1'.  DOLOMITE; brownish gray; micritic; fresh; strong; hard; w/limestone; (Salina Group - Unit F). 0°, J, VN, UK, PI, SR @ 240.8' shale parting @ 241.05'  DOLOMITE; gray; fresh; strong; hard; (Salina Group - Unit F). 15°, J, T, No, No, PI, SR @ 241.7'  DOLOMITE; pale brown; micritic; fresh; strong; hard; fossiliferous; (Salina Group - Unit E). highly fragmented @ 241.7-242.1' w/stylolite and fossil voids @ 242.1-242.9' 0°, J, T, No, No, PI, SR @ 242.2', 243.15', 244.0' fossil pits @ 244.1-244.3' 40°, J, T, No, No, Ir, SR @ 244.35-244.55'  fossil pits @ 245.4-246.4'  fragmented @ 246.6-246.8' fossil pits @ 247.0-248.8' 0°, J, T, No, No, PI, R @ 247.1', 247.2', 247.4', 248.6'  claystone band; white; micritic; highly weathered; soft; very weak @ 248.9-249.0'  40°, J, T, No, No, PI, SR @ 250.0-250.1' 0°, J, VN, CI, Pa, PI, SR @ 250.1', 251.0', 251.4', 251.5' fragmented @ 250.1-250.25' shale partings @ 251.6', 251.7' fossil pits @ 251.0-251.5'  40°, J, T, No, No, PI, S @ 254.7-254.9'										241										338										248.9'-249.0': 5.7 PPM, PID reading in headspace of plastic bag stored in core box.  Core box #15 starts @ 251.51'.																
							242										337																																																																		
							243										336																																																																		
							244										335																																																																		
HQ 56 5.0 4.6 3.4 92 68							245										334																																																																		
							246										333																																																																		
							247										332																																																																		
							248										331																																																																		
HQ 57 5.0 4.5 3.65 90 73							249										330																																																																		
							250										329																																																																		
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							255										324																																																																		

**BLACK & VEATCH**

# BORING LOG

BORING NO. RB-C2

SHEET 18 OF 19

CLIENT				PROJECT				PROJECT NO.			
Detroit Edison				Fermi 3 COL Application				147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)			
Monroe, MI				N 6273.2' E 4525.7'				579.3 ft (NAVD 88)			
SURFACE CONDITIONS				COORDINATE SYSTEM				DATE START			
Gravel parking area				Plant				06/14/07			
SAMPLING				LOGGED BY				CHECKED BY			
				Granger/Bonnie				Dogbey/Bonnie			
APPROVED BY								Meyer			
SAMPLE TYPE				SAMPLE NUMBER				SET 6 INCHES			
SAMPLE TYPE				SAMPLE NUMBER				2ND 6 INCHES			
SAMPLE TYPE				SAMPLE NUMBER				3RD 6 INCHES			
SAMPLE TYPE				SAMPLE NUMBER				N VALUE			
SAMPLE TYPE				SAMPLE NUMBER				SAMPLE RECOVERY			
CORING				DEPTH (FEET)				SAMPLE TYPE			
CORE SIZE				RUN NUMBER				RUN LENGTH			
CORE SIZE				RUN NUMBER				RUN RECOVERY			
CORE SIZE				RUN NUMBER				RQD RECOVERY			
CORE SIZE				RUN NUMBER				PERCENT RECOVERY			
CORE SIZE				RUN NUMBER				RQD			
CORE SIZE				RUN NUMBER				DEPTH (FEET)			
CORE SIZE				RUN NUMBER				SAMPLE TYPE			
CORE SIZE				RUN NUMBER				ELEVATION (FEET)			
CORE SIZE				RUN NUMBER				GRAPHIC LOG			
CORE SIZE				RUN NUMBER				CLASSIFICATION OF MATERIALS			
CORE SIZE				RUN NUMBER				REMARKS			
CORE SIZE				RUN NUMBER				vuggy dolomite (5% vugs) @ 255.0-255.3'			
CORE SIZE				RUN NUMBER				CLAYSTONE; gray; micritic; highly to slightly weathered; weak; low hardness; (Salina Group - Unit E).			
CORE SIZE				RUN NUMBER				DOLOMITE; gray; micritic; highly weathered to fresh; weak to strong; low hardness to hard; (Salina Group - Unit E).			
CORE SIZE				RUN NUMBER				shale parting @ 256.2'			
CORE SIZE				RUN NUMBER				DOLOMITE; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit E).			
CORE SIZE				RUN NUMBER				fractured @ 256.4-257.0'			
CORE SIZE				RUN NUMBER				0°, J, VN, shale, Fi, PI, SR @ 256.9'			
CORE SIZE				RUN NUMBER				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit E).			
CORE SIZE				RUN NUMBER				30° J, VN, CI, Fi, WA, S @ 257.25-257.35'			
CORE SIZE				RUN NUMBER				0°, J, VN, CI, Fi, PI, SR @ 257.4', 257.55', 258.1', 258.2'			
CORE SIZE				RUN NUMBER				DOLOMITE; gray to grayish brown; micritic; fresh; strong; hard; w/gypsum partings and bands; (Salina Group - Unit E).			
CORE SIZE				RUN NUMBER				0°, J, VN, CI, Fi, PI, SR @ 258.4', 259.0'			
CORE SIZE				RUN NUMBER				shale parting @ 259.9'			
CORE SIZE				RUN NUMBER				gypsum nodules @ 258.9-259.1', 260.8-261.1', 262.85-263.1', 264.0'			
CORE SIZE				RUN NUMBER				gypsum partings @ 259.1-259.8'			
CORE SIZE				RUN NUMBER				gypsum parting (0.2") @ 260.05'			
CORE SIZE				RUN NUMBER				gypsum parting (0.05") @ 260.15'			
CORE SIZE				RUN NUMBER				gypsum parting (0.1") @ 260.2'			
CORE SIZE				RUN NUMBER				gypsum parting (0.15") @ 260.4'			
CORE SIZE				RUN NUMBER				gypsum parting (0.2") @ 260.55'			
CORE SIZE				RUN NUMBER				gypsum partings @ 260.6-262.0'			
CORE SIZE				RUN NUMBER				grades grayish brown @ 262.5'			
CORE SIZE				RUN NUMBER				convoluted gypsum beds & nodules w/shale partings @ 262.0-262.7'			
CORE SIZE				RUN NUMBER				grades light grayish brown @ 263.4'			
CORE SIZE				RUN NUMBER				grades grayish brown @ 263.9'			
CORE SIZE				RUN NUMBER				gypsum nodules w/shale parting @ 264.25'			
CORE SIZE				RUN NUMBER				grades w/shale partings @ 264.5'			
CORE SIZE				RUN NUMBER				DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).			
CORE SIZE				RUN NUMBER				0°, J, VN, No, No, Ir, SR @ 265.7'			
CORE SIZE				RUN NUMBER				shale parting (0.2"-0.25") @ 265.95'			
CORE SIZE				RUN NUMBER				shale parting @ 266.08'			
CORE SIZE				RUN NUMBER				DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/gypsum nodules & parting; (Salina Group - Unit E).			
CORE SIZE				RUN NUMBER				gypsum parting @ 267.1-267.5'			
CORE SIZE				RUN NUMBER				gypsum nodules @ 267.0-267.1'			
CORE SIZE				RUN NUMBER				gypsum parting (0.1-0.2") @ 267.2'			
CORE SIZE				RUN NUMBER				grades grayish brown @ 267.5'			
CORE SIZE				RUN NUMBER				grades w/shale parting @ 267.5'			
CORE SIZE				RUN NUMBER				gypsum nodules & bands, convoluted @ 268.1-268.7'			
CORE SIZE				RUN NUMBER				gypsum parting @ 268.7-269.2'			

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C2****SHEET 19 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																															
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/30/07																															
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> TB										CHECKED BY <i>Doebey/Bonnie</i> TB										APPROVED BY <i>Meyer</i> EM																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
														270				309				gypsum nodules & partings @ 269.2-270.0'																				Bottom of boring @ 270.0'. Water level @ 19.9' @ completion of drilling. Boring caved @ 176.7'. Cleared cavein. Caved to 259.1' Backfilled from 259.1 w/ bentonite chips to 62' bgs on 09/06/07. Continued w/bentonite chips to 35' bgs on 09/07/07. Continued w/ bentonite chips to 5' bgs then gravel to surface on 09/12/07.																			
														271				308																																											
														272				307																																											
														273				306																																											
														274				305																																											
														275				304																																											
														276				303																																											
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														282				297																																											
														283				296																																											
														284				295																																											
														285																																															

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C3

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																														
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2'										GROUND ELEVATION (DATUM) E 4606.0'										TOTAL DEPTH 580.6 ft (NAVD 88)																																																																																																				
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07																																																																																																				
SAMPLING										LOGGED BY Grainger/TB for Bonnie/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY Meyer																																																																																																				
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> <th></th> </tr> <tr> <td>S</td> <td>1</td> <td></td> <td>3.7</td> <td></td> <td></td> <td>1.3</td> <td></td> </tr> <tr> <td>S</td> <td>2</td> <td></td> <td>5.0</td> <td></td> <td></td> <td>NR</td> <td></td> </tr> <tr> <td>S</td> <td>3</td> <td></td> <td>10.0</td> <td></td> <td></td> <td>3.0</td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	CORING								CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		S	1		3.7			1.3		S	2		5.0			NR		S	3		10.0			3.0		<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> </tr> <tr> <td>0</td> <td></td> <td>580</td> <td rowspan="15"></td> </tr> <tr><td>1</td><td></td><td>579</td></tr> <tr><td>2</td><td></td><td>578</td></tr> <tr><td>3</td><td></td><td>577</td></tr> <tr><td>4</td><td></td><td>576</td></tr> <tr><td>5</td><td></td><td>575</td></tr> <tr><td>6</td><td></td><td>574</td></tr> <tr><td>7</td><td></td><td>573</td></tr> <tr><td>8</td><td></td><td>572</td></tr> <tr><td>9</td><td></td><td>571</td></tr> <tr><td>10</td><td></td><td>570</td></tr> <tr><td>11</td><td></td><td>569</td></tr> <tr><td>12</td><td></td><td>568</td></tr> <tr><td>13</td><td></td><td>567</td></tr> <tr><td>14</td><td></td><td>566</td></tr> <tr><td>15</td><td></td><td></td></tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	0		580		1		579	2		578	3		577	4		576	5		575	6		574	7		573	8		572	9		571	10		570	11		569	12		568	13		567	14		566	15			<p><b>CLASSIFICATION OF MATERIALS</b></p> <p><b>REMARKS</b></p>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																											
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S	1		3.7			1.3																																																																																																																												
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14		566																																																																																																																																
15																																																																																																																																		
										<p><b>COBBLES</b> - About 60% angular, flat to cubical, hard cobbles w/max. size 10"; about 20% fine to coarse, angular, hard gravel w/max. size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).</p>										<p>Boring advanced w/vacuum excavation.</p>																																																																																																														
																				<p>Below 3.7' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S1 collected from S-1.</p>																																																																																																														
																				<p>Discrete sample S2 collected from S-2.</p>																																																																																																														
																				<p>Discrete sample S3 collected @</p>																																																																																																														
										<p>Fat <b>CLAY</b> (CH) - About 95% high plasticity, high toughness, no dilatancy high dry strength fines; about 5% fine sand; gray &amp; dark reddish brown; soft; moist; weak reaction w/HCl; laminated; (Lacustrine Deposit).</p>																																																																																																																								



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 2 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4606.0'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 274.0 (feet)																																							
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07																																							
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																							
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td>SPT</td> <td>4</td> <td>3</td> <td>3</td> <td>5</td> <td>8</td> <td>1.3</td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	SPT	4	3	3	5	8	1.3		<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td rowspan="2">TW</td> <td>15.0</td> <td rowspan="2">CLAY</td> <td>565</td> <td rowspan="2">[Hatched Pattern]</td> <td rowspan="2">Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 15% fine to medium sand; dark grayish brown &amp; light gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</td> <td rowspan="2">14.4-14.6'. Set nominal 6" temporary steel casing to 14.5'. Below 15.0' continue w/NWJ rods &amp; 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Split SPT-4 into two jars, A &amp; B.</td> </tr> <tr> <td>20.0</td> <td>560</td> <td>TW-5: bottom 6" of tube bent.</td> </tr> <tr> <td rowspan="2">SPT</td> <td>25.0</td> <td rowspan="2">CLAY</td> <td>555</td> <td rowspan="2">[Hatched Pattern]</td> <td rowspan="2">Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subrounded, hard sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</td> <td rowspan="2">23.3'</td> </tr> <tr> <td>29.0</td> <td>551</td> <td>grades w/gabbro gravel, rounded @ 29.0'</td> </tr> <tr> <td>CA</td> <td>29.0</td> <td>CLAY</td> <td>551</td> <td>[Hatched Pattern]</td> <td></td> <td>Tricone bit refusal @ 30.0'. Caved to 29.0'</td> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	TW	15.0	CLAY	565	[Hatched Pattern]	Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 15% fine to medium sand; dark grayish brown & light gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	14.4-14.6'. Set nominal 6" temporary steel casing to 14.5'. Below 15.0' continue w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Split SPT-4 into two jars, A & B.	20.0	560	TW-5: bottom 6" of tube bent.	SPT	25.0	CLAY	555	[Hatched Pattern]	Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subrounded, hard sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	23.3'	29.0	551	grades w/gabbro gravel, rounded @ 29.0'	CA	29.0	CLAY	551	[Hatched Pattern]		Tricone bit refusal @ 30.0'. Caved to 29.0'
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																														
SPT	4	3	3	5	8	1.3																																																															
CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																															
TW	15.0	CLAY	565	[Hatched Pattern]	Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 15% fine to medium sand; dark grayish brown & light gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	14.4-14.6'. Set nominal 6" temporary steel casing to 14.5'. Below 15.0' continue w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Split SPT-4 into two jars, A & B.																																																															
	20.0		560				TW-5: bottom 6" of tube bent.																																																														
SPT	25.0	CLAY	555	[Hatched Pattern]	Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subrounded, hard sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	23.3'																																																															
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CA	29.0	CLAY	551	[Hatched Pattern]		Tricone bit refusal @ 30.0'. Caved to 29.0'																																																															



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 3 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6273.2'					GROUND ELEVATION (DATUM) E 4606.0'					TOTAL DEPTH 274.0 (feet)						
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant					DATE START 06/13/07			DATE FINISHED 08/01/07			
SAMPLING										LOGGED BY Grainger/Bonnie/Mass					CHECKED BY Dogbey/Mass					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT	RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS			
S	8							4.5	30		550		DOLOMITE; dark gray; micritic (crystalline); fresh; very strong; very hard; w/stylolites; (Bass Islands Group).					(caved material contains gabbro gravel). Below 29.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.			
S	9							2.0	31		549										
									32		548										
									33		548										
									34		547										
									35		546										
									36		545										
HQ	1	3.0	3.0	0.4	100	13			37		544										
									38		543										
									39		542										
									40		541										
									41		540										
HQ	2	5.0	5.0	1.8	100	36			42		539										
									43		538										
									44		537										
									45		536										





BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6273.2'					GROUND ELEVATION (DATUM) E 4606.0'					TOTAL DEPTH 274.0 (feet)						
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant					DATE START 06/13/07			DATE FINISHED 08/01/07			
SAMPLING										LOGGED BY Grainger/Bonnie/Mass					CHECKED BY Dogbey/Mass					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	3	5.2	5.2	2.5	100	48		45				20°, J, No, No, Pl, SR @ 44.8' highly fractured @ 45.2-45.4'									
								46				DOLOMITE; gray, mottled; pitted/vuggy; micritic; slightly weathered; very strong; very hard; pits/vugs 0.2-0.4"; vugs filled w/calcite & anhydrite; (Bass Islands Group). 60°, J, No, No, St, R @ 46.4-46.5'									
								47				DOLOMITE; argillaceous; dark grayish brown & dark gray, banded; pitted/vuggy; micritic; fresh to slightly weathered; very strong; very hard; pits/vugs 0.04-0.4"; vugs occur in beds; w/black; very fine grained; fresh; strong; hard; shale partings and stylolites; thickest parting (0.1") @ 47.7"; (Bass Islands Group). highly fractured @ 46.8-47.0', 47.3-47.4'									
								48				shale partings - 0°, B, Pl, St, SR @ 47.2', 47.7', 48.5', 48.9'									
								49				70°, J, T, Ir @ 48.2-48.9'									
								50				100°, J, anhydrite, Pa, Pl, SR @ 48.7-49.1'									
								51				highly fractured @ 49.1-49.4', 50.1-50.6'									
								52				40°, J, Ca, Pa, Pl, Slk @ 49.3-49.4'									
								53				30°, J, Cl, Pa, Pl, SR @ 49.9-50.0'									
								54				shale; black; platy; very fine grained; fresh; strong; hard @ 50.1-50.2'									
								55				brecciated (not healed) @ 50.1-50.9'									
								56				0.8" vug @ 51.1-51.2'									
								57				0°, J, No, No, Pl, SR @ 51.8-52.7'									
								58				few vugs @ 52.0'									
								59				20°, J, No, No, Pl, SR @ 53.3', 55.6'									
								60				DOLOMITE; light brownish gray; micritic to very fine grained; fresh; strong; hard; w/few vugs (about 0.4-0.8") & very closely spaced stylolites; (possibly oolitic); (Bass Islands Group). 0°, J, No, No, Pl, SR @ 54.7', 54.9'									
												highly fractured @ 55.1-55.3', 56.2-56.4'									
												60°, J, No, No, Pl, SR @ 56.0-56.2'									
												brecciated (healed) @ 56.2-57.0'									
												DOLOMITE; argillaceous; grayish brown & very dark grayish brown, banded; pitted/vuggy; micritic; fresh to slightly weathered; very strong; very hard; w/stylolites; (Bass Islands Group). 50°, J, No, No, Ir, SR @ 57.3-57.4'									
												70°, J, No, No, Pl, SR @ 57.7-57.8'									
												70°, J, No, No, Pl, SR @ 58.0-58.3'									
												0°, B, T, Pl, SR @ 58.2-58.3'									
												highly fractured @ 58.4-58.5', 58.9-59.0'									
												90°, J, No, No, Pl, SR @ 58.5-58.9'									
												80°, J, No, No, Pl, SR @ 58.5-58.9'									
												shale band; very dark gray; platy; very fine grained;									

7/17/2008 8:39 AM DTE - Fermi 3 Geotech



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## BORING LOG

BORING NO. RB-C3

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4606.0'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 274.0 (feet)																																																					
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07																																																					
SAMPLING										LOGGED BY Granger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																					
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																													
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																							
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																													
HQ 6 5.0 5.0 3.6 100 72										60																														fresh; strong; hard @ 59.0-59.2'										Core box #3 starts @ 61.5'.																																	
										61										520																				dolomite & shale; dolomitic; white & gray, mottled; micritic to very fine grained; fresh; very strong; very hard @ 59.2-59.4'																																											
										62										519																				DOLOMITE; oolitic; light brownish gray; medium to coarse grained (crystalline); fresh; very strong; very hard; oolites 0.02-0.04"; (Bass Islands Group). 10°,B/J,No,No,PI,SR @ 60.5'																																											
										63										518																				40°,J,No,No,PI,R @ 61.5-61.7'																																											
										64										517																				DOLOMITE & SHALE; dolomitic; white & gray, mottled; micritic to very fine grained; fresh; very strong; very hard; (Bass Islands Group). highly fractured @ 63.0-63.4'																																											
HQ 7 5.0 4.9 4.4 98 88										65										516																				shale; very dark gray; fissile; very fine grained; fresh; strong; hard @ 63.3-63.5'																																											
										66										515																				DOLOMITE; light gray, gray, & dark gray, banded; micritic; fresh; very strong; very hard; w/convoluted, wavy shale partings & bands, & stylolites; thickest shale band (0.4") @ 65.6"; (Bass Islands Group). shale parting - 10°,B,PI,SR @ 63.7'																																											
										67										514																				DOLOMITE; light gray, gray, & greenish gray, banded; micritic; fresh; very strong; very hard; w/ horizontal bands; (Bass Islands Group).																																											
										68										513																				0°,B,CI/Ca,Fi,PI,S @ 67.4', 67.8', 68.0', 68.2'																																											
										69										512																																																															
HQ 8 5.0 5.0 3.2 100 64										70										511																				highly fractured @ 69.4-69.5', 70.2-70.4' shale parting - 10°,B,PI,SR @ 69.6'																																											
										71										510																				DOLOMITE; brecciated (healed); light brownish gray; vuggy; micritic; slightly weathered; very strong; hard; w/very dark gray; fresh; moderately strong; hard; convoluted lenses, partings & bands of shale; brecciated (healed) fragments subangular to subrounded, up to 6" diameter; vugs spherical to elongate, 0.04-0.4"; few filled w/anhydrite; (Bass Islands Group). brecciated, healed w/shale & dolomite @ 70.5-72.5'																																											
										72										509																																																															
										73										508																																																															
										74										507																				highly fractured @ 73.3-73.4', 73.8-74.0' 30°,J,CI,Pa,Ir,R @ 73.3-73.4'																																											
										75										506																				30°,J,No,No,PI,R @ 73.5-73.6'																																											
																																								50°,J,CI,Pa,PI,SR @ 74.0-74.1'																																											
																																								120°,J,CI,Pa,PI,SR @ 74.0-74.1'																																											



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4606.0'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 274.0 (feet)																																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07																																															
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																						
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																							
HQ 9 5.0 5.0 4.9 100 98										75																																																																			
										76										505																				0°, J, T, No, No, Ir, R @ 75.7'										Core box #4 starts @ 75.7'.																											
										77										504																				0°, J, No, No, Ir, R @ 76.2'										Partial loss of drilling fluid @ 76.5'.																											
										78										503																																																									
										79										502																																																									
										80										501																																																									
HQ 10 5.0 5.0 5.0 100 100										81										500																				closely spaced stylolites @ 80.7'																																					
										82										499																																																									
										83										498																																																									
										84										497																				DOLOMITE; gray & light brownish gray, banded; very fine grained (crystalline); fresh; very strong; hard; w/ stylolites; (Bass Islands Group).																																					
										85										496																				0°, J, Cl, Fi, Pl, SR @ 84.5'																																					
										86										495																				20°, J, Cl, Fi, Pl, SR @ 84.5-84.6'																																					
										87										494																				lean clay band - about 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; greenish gray; moist; weak reaction w/HCl; homogeneous @ 84.5-84.6'																																					
HQ 11 5.0 5.0 1.8 100 36										88										493																				DOLOMITE; brecciated (healed); argillaceous; gray; pitted; micritic; fresh to slightly weathered; strong; hard; pits 0.04-0.16", some filled w/calcite & anhydrite; (Bass Islands Group).																																					
										89										492																				DOLOMITE & SHALE; dolomitic; gray, mottled; micritic to very fine grained; fresh; very strong; very hard; (Bass Islands Group).																																					
										90										491																				shale band; dark gray; very fine grained; fresh; strong; hard @ 87.0-87.1'																																					
																																								grades w/shale partings @ 87.1'										Core box #5 starts @ 89.0'.																											
																																								DOLOMITE; argillaceous; light olive brown & gray; micritic fresh; strong; hard; w/zones of very closely																																					

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6273.2'					E 4606.0'					580.6 ft (NAVD 88)		274.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					06/13/07		08/01/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Bonnie/Mass					Dogbey/Mass					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS			REMARKS						
CORING																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	12	5.0	5.0	4.4	100	88		90		490		spaced stylolites (7" apart); (Bass Islands Group). highly fractured @ 87.4-87.9'									
								91		489		90°, J,Ca,Pa,PI,SR @ 87.4-87.9' (2)									
										489		0°, J,No,No,PI,SR @ 88.3'									
								92				20°, J,CI,FI,PI,S @ 88.7'									
										488		vuggy @ 89.4-89.8'									
												brecciated (healed) @ 89.8-90.3'									
								93				highly fractured @ 91.7-92.0'									
										487		90°, J,T,PI @ 92.0-92.5' (many)									
										486		30°, J,CI,FI,PI,SR @ 93.4-93.5'									
								94				0°, J,CI,FI,PI,SR @ 93.4'									
										485		0° & 30° joints filled w/clay & highly fractured dolomite @ 93.4-93.5'									
								95				20°, J,No,No,PI,SR @ 94.8'									
										484		shale lenses in dolomite matrix, some fractures healed @ 95.0-96.3'									
								96													
HQ	13	5.0	5.0	3.4	100	68				484		shale parting - 0°, B,WA,SR @ 96.4'									
								97				<u>DOLOMITE</u> ; argillaceous; light brownish gray; micritic; fresh; very strong; hard; w/very closely spaced, black shale partings; (Bass Islands Group).									
										483		shale; black; very fine grained; fresh; strong; hard @ 96.7-96.8'									
								98				90°, J,No,No,WA,SR @ 96.8-97.0'									
										482		90°, J,CI,FI,WA,SR @ 96.8-97.7'									
								99				90°, J,No,No,PI,SR @ 97.9-98.0', 100.5-100.7'									
										481		0°, B,CI,FI,PI,SR @ 99.2', 99.4'			No drilling fluid return @ 99.0'.						
								100				60°, J,No,No,PI,SR @ 99.4-99.6'									
										480											
								101				10°, B/J,No,No,PI,S @ 100.5', 100.6', 100.7'									
										479		mottled; convoluted bands @ 100.7-101.7'									
HQ	14	5.0	5.0	3.7	100	74		102				highly fractured @ 101.6-101.7'									
										478		<u>DOLOMITE</u> ; olive gray & grayish brown, banded; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).									
								103				0° B,No,No,PI,SR @ 101.9'			Core box #6 starts @ 102.8'.						
										477		10°, B,UK,FI,PI,SR @ 102.7'									
								104				very closely spaced stylolites @ 102.7'									
										476		grades light brownish gray @ 103.8'									
								105				highly fractured @ 104.6', 105.1-105.2'									



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## BORING LOG

BORING NO. RB-C3

SHEET 8 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4606.0'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 274.0 (feet)													
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07													
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		15		5.0		5.0		2.8		100		56		105								90°, J, No, No, PI, SR @ 105.4-105.6' lean clay band - medium plasticity, medium toughness, no dilatancy fines; dark gray; moist; strong reaction w/HCl; homogeneous @ 105.6-105.7'																					
														106																													
														107								90°, J, No, No, PI, SR @ 107.1-107.2' highly fractured @ 107.1-109.0' shale parting - 0°, B, PI, SR @ 107.1' 20°, J, No, No, PI, SR @ 107.5' 70°, J, Ca, Fi, PI, SR @ 107.5-107.7', 107.7-107.9' 80°, J, No, No, WA, SR @ 107.7-108.6' (3)																					
														108																													
														109																													
														110								30°, J, Cl, Pa, PI, SR @ 109.5' 90°, J, Cl, Fi, PI, SR @ 109.9-110.1' 0°, B, Cl, Pa, PI, SR @ 109.9' highly fractured @ 110.1-110.3'																					
														111								DOLOMITE; argillaceous; grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/stylolites; pits 0.004-0.12"; (Bass Islands Group). 90°, J, No, No, PI, SR @ 110.3-110.8', 110.6-111.1' 20°, J, Cl, Pa, PI, SR @ 110.8' 80°, J, No, No, PI, SR @ 110.8-112.2' very closely spaced stylolites @ 111.1', 111.6', 112.6' 0°, B, UK, Fi, PI, SR @ 111.1'																					
														112																													
														113																													
														114								60°, J, Cl, Pa, PI, SR @ 113.5-113.8' very pale brown @ 114.0-115.0' 50°, J, Ca, Pa, PI, R @ 114.0-114.1'																				Core loss @ 113.8-114.0'	
														115																													
														116								0°, J/B, anhydrite, Fi, PI, SR @ 115.6' joint filled w/large (~ 0.8") anhydrite crystals highly fractured @ 115.6-115.8', 116.8-117.5', 118.2-118.7' very strong; very hard @ 115.8-116.8' 0°, B, Cl, Fi, PI, SR @ 116.1' 40°, J, Ca, Pa, PI, SR @ 116.3' fat clay band - about 100% high plasticity, medium toughness, no dilatancy, very high dry strength fines; greenish gray; moist; weak reaction w/HCl; homogeneous @ 116.5-116.8' 30°, J, Ca, Fi, PI, SR @ 117.5' gray & light brownish gray, mottled @ 117.5-119.0' 80°, J, Cl, Pa, PI, R @ 117.5-118.2'																				Core box #7 starts @ 116.1'	
														117																													
														118																													
														119																												Core loss @ 118.7-121.6'	
														120																													

**BLACK & VEATCH**

## BORING LOG

BORING NO. RB-C3

SHEET 9 OF 19

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6273.2'					E 4606.0'					580.6 ft (NAVD 88)					274.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel parking lot										Plant					06/13/07					08/01/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Grainger/Bonnie/Mass					Dogbey/Mass					Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS							
CORING																													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																							
HQ	18	5.0	2.4	0.0	48	0	120			460																			
							121			459																			
							122			458		DOLOMITE & SHALE; dolomitic; dark greenish gray & gray, banded; micritic to very fine grained; fresh; very strong; hard; (Salina Group - Unit F). highly fractured @ 121.6-122.1', 122.7-123.0'																	
							123			457		80°,J,No,No,PI,SR @ 123.0-123.4' 0°,J/B,No,No,PI,SR @ 123.2' 0°,B,Ci,Fi,PI,SR @ 123.4' 60°,J,No,No,PI,SR @ 123.5-123.7' 90°,J,No,No,PI,SR @ 123.8-124.0'																	
			124.0				124			456												Core loss @ 124.0-127.2'.							
HQ	19	5.0	1.6	0.0	32	0	125			455																			
							126			454																			
							127			453		highly fractured; some clasts contain large (~ 0.8") anhydrite crystals & calcite filled joints @ 127.0-128.2' brecciated; light gray; w/lenses of white; micritic (crystalline); fresh; strong; hard; anhydrite @ 128.2-130.5'																	
							128			452		80°,J,anhydrite,Pa,PI,SR @ 128.2-128.5'																	
			129.0				129			451												Core loss @ 129.0-130.0'.							
HQ	20	2.5	1.5	0.0	60	0	130			450		highly fractured @ 130.0-130.4', 130.6-131.1' 90°,J,No,No,PI,SR @ 130.4-130.6' grades gray @ 130.5'																	
							131			449																			
			131.5				132			448												Core loss @ 131.5-132.5'.							
HQ	21	2.5	1.5	0.0	60	0	133			447																			
							134			446		LIMESTONE; argillaceous; dark greenish gray; pitted; very fine grained (crystalline); slightly to moderately weathered; strong; moderately hard to hard; thin bedded; w/clay partings; medium plasticity, medium toughness, no dilatancy fines; gray; moist; strong reaction w/HCl; homogeneous; (Salina Group - Unit F).																	
			134.0				135			445																			

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6273.2'		E 4606.0'	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot		Plant		06/13/07	
LOGGED BY		CHECKED BY		APPROVED BY	
Granger/Bonnie/Mass		Dogbey/Mass		Meyer	
SAMPLING		DEPTH (FEET)		CLASSIFICATION OF MATERIALS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY
HQ	22	2.0	1.5	0.0	75
HQ	23	3.0	1.1	0.0	37
HQ	24	2.5	1.9	0.4	76
HQ	25	2.5	1.5	0.0	60
HQ	26	2.5	1.0	0.0	40
HQ	27	2.5	1.7	0.0	68
REMARKS		<p>CLAYSTONE; dolomitic; greenish gray; very fine grained; moderately weathered; moderately strong; moderately hard; w/areas of weak, low hardness; (Salina Group - Unit F). highly fractured @ 135.5-136.0'</p> <p>argillaceous dolomite fragments ; gray; micritic; fresh; strong; hard @ 137.2-137.3'</p> <p>argillaceous dolomite fragments @ 139.0-139.6'</p> <p>CLAYSTONE &amp; LIMESTONE; CLAYSTONE: dolomitic; very dark greenish gray; moderately weathered; moderately strong; moderately hard; LIMESTONE: shaley; very dark gray; fissile to massive; slightly to moderately weathered; strong; hard; thin bedded; w/calcite &amp; trace pyrite filling/ healing of fractures, pits, &amp; vugs; (Salina Group - Unit F).</p> <p>DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; highly fractured; (Salina Group - Unit F).</p> <p>CLAYSTONE &amp; LIMESTONE; CLAYSTONE: dolomitic; very dark greenish gray; moderately weathered; moderately strong; moderately hard; LIMESTONE: shaley; very dark gray; fissile to massive; slightly to moderately weathered; strong; hard; thin bedded; w/calcite &amp; trace pyrite filling/ healing of fractures, pits, &amp; vugs; (Salina Group - Unit F). dolomite fragments; argillaceous; dark bluish gray; very fine grained; fresh; strong; hard @ 145.7-146.7'</p> <p>CLAYSTONE; dolomitic; brecciated (not healed); gray; moderately to highly weathered; very weak to weak; low hardness to friable; slight hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy to rapid dilatancy soil fines; (Salina Group - Unit F). highly fractured @ 147.8-149.0' moderately weathered; moderately strong; moderately hard @ 148.3-148.4' highly weathered; weak; low hardness @ 148.7-</p>			



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6273.2'					GROUND ELEVATION (DATUM) E 4606.0'					TOTAL DEPTH 274.0 (feet)						
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant					DATE START 06/13/07					DATE FINISHED 08/01/07	
SAMPLING										LOGGED BY TB for Grainger/Bonnie/Mass					CHECKED BY TB for Dogbey/Mass					APPROVED BY f m Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	28	2.5	2.5	2.0	100	80	150					148.9' 60° J, No, No, PI, SR @ 148.9-149.1'					Discrete sample 8-A collected @ 149.9-151.3'.				
							151					CLAYSTONE; dolomitic; light greenish gray; very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F). 10° B/J, No, No, St, R @ 151.3' grades greenish gray @ 151.3'									
HQ	29	2.5	1.0	0.5	40	20	152					DOLOMITE; argillaceous; & SHALE; dolomitic; greenish gray & very dark gray, banded; pitted; micritic to very fine grained; slightly weathered; strong; hard; banded to thin bedded; wavy bedding; (Salina Group - Unit F). 20° J, No, No, PI, SR @ 152.6-152.7' highly fractured @ 154.0-154.3', 154.5-154.7', 154.9-155.1', 155.4-155.6', 155.9-156.0'									
HQ	30	2.5	2.5	0.5	100	20	153					100° J, No, No, PI, SR @ 155.7-155.9' 80° J, No, No, WA, SR @ 155.7-155.9'									
HQ	31	2.5	1.2	0.0	48	0	154					90° J, Ca, Fi, PI, SR @ 157.2-157.5', 157.9-158.1' 90° J, No, No, PI, SR @ 157.2-157.5' light greenish gray and very dark gray @ about 157.2-158.4'					Core loss throughout @ 156.5-159.0'.				
HQ	32	2.5	2.5	0.0	100	0	155					highly fractured; w/many joints oriented @ 70° J, No, No, PI, SR @ 159.8-160.5'									
HQ	33	2.5	2.5	0.8	100	32	156					40° J, CI, Fi, PI, SR @ 160.9-161.0'									
							157					Breccia - dolomite clasts in a indurated claystone matrix: claystone matrix; dolomitic; greenish gray; micritic; slightly weathered; moderately strong; moderately hard; w/angular clasts of dolomite; argillaceous; dark gray; micritic; slightly weathered; moderately strong; moderately hard @ 163.0-163.4'					Discrete sample 8-B collected @ 161.9-162.8'.				
							158										Core box #9 starts @ 164.0'. Core loss @				
							159														
							160														
							161														
							162														
							163														
							164														
							165														





BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4606.0'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 274.0 (feet)																																																																					
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07																																																																					
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td>CORE SIZE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RUN NUMBER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RUN LENGTH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RUN RECOVERY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RQD RECOVERY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PERCENT RECOVERY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RQD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	CORE SIZE							RUN NUMBER							RUN LENGTH							RUN RECOVERY							RQD RECOVERY							PERCENT RECOVERY							RQD																
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HQ	34	5.0	3.8	1.5	76	30	165									164.0-164.7'																																																																																			
							166									Discrete sample 9-A collected @ 166.2-166.8'.																																																																																			
							167																																																																																												
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HQ	36	2.5	1.0	0.4	40	16	175									DOLOMITE & CLAYSTONE; dolomitic; light greenish gray to very dark gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F).																																																																																			
							176																																																																																												
							177																																																																																												
HQ	37	2.5	0.5	0.0	20	0	178									dolomite fragments; argillaceous; dark gray; micritic; fresh; strong; hard @ 177.5-177.7' claystone; brecciated (not healed); very dark greenish gray; highly weathered; weak, low hardness; properties comparable to high plasticity, low toughness, no dilatancy soil fines; moist @ 177.7-178.0'																																																																																			
							179																																																																																												
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7/17/2008 8:39 AM DTE - Fermi 3 Geotech

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6273.2'					E 4606.0'					580.6 ft (NAVD 88)		274.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					06/13/07		08/01/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Bonnie/Mass					Dogbey/Mass					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	38	2.5	0.8	0.0	32	0	180		400		BRECCIA - dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dolomitic; gray; highly weathered; very weak; low hardness; w/clasts of dolomite; gray & light greenish gray; micritic; fresh; strong; hard; (Salinga Group - Unit F). 70°J,C,I,Pa,PI,SR @ about 180.4-180.6'										
			181.5				181		399		DOLOMITE & CLAYSTONE; dolomitic; light greenish gray to very dark gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 40°J,C,I,Pa,PI,SR @ 182.4-183.5'										
HQ	39	2.5	1.2	0.7	48	28	182		398		BRECCIA - dolomite clasts in a indurated claystone matrix: claystone matrix; pale yellow to dark gray; very fine grained; slightly weathered; moderately strong; moderately hard; w/angular clasts of dolomite; light brownish gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 60°J,N,PI @ 183.0-183.1' 90°J,N,PI @ 183.1-183.3' 50°J,N,PI @ 183.3'										
			184.0				183		397		BRECCIA - dolomite clasts in a indurated claystone matrix: claystone matrix; greenish gray; moderately weathered; moderately strong; moderately hard; w/ angular clasts of dolomite; argillaceous; gray; micritic; fresh; strong; hard; w/calcite partings; (Salina Group - Unit F).										
HQ	40	2.5	2.0	0.8	80	32	184		396		BRECCIA - dolomite clasts in a indurated claystone matrix: claystone matrix; dolomitic; dark greenish gray; moderately weathered; moderately strong; moderately hard; w/lenses of fine medium sand; w/ angular clasts of dolomite; some argillaceous; dark gray & grayish brown; micritic to very fine grained; fresh to slightly weathered; strong; hard; includes sand-, gravel-, and cobble-sized clasts; (Salina Group - Unit F). fissile @ 186.9-187.2'					Core loss @ 189.0-189.2'					
			186.5				185		395		claystone band; dolomitic; gray; completely weathered; extremely weak; friable; properties comparable to low plasticity, low toughness, rapid dilatancy soil fines @ 189.4-189.5'										
HQ	41	2.5	2.5	0.8	100	32	186		394		dolomite; light brownish gray; micritic; fresh; strong; hard @ 190.0-190.3'					Core box #10 starts @ 191.3'.					
			189.0				187		393		claystone band; dolomitic; gray; highly weathered; very weak; low hardness; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 190.4-190.6'										
							188		392		greenish gray breccia fragments @ 190.6-191.4'										
HQ	42	5.0	4.8	2.2	96	44	189		391		DOLOMITE & LIMESTONE; light gray, banded; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°B,No,No,PI,SR @ 194.1', 194.2'										
							190		390												
							191		389												
							192		388												
							193		387												
			194.0				194		386												
							195		385												



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 14 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6273.2'		GROUND ELEVATION (DATUM) E 4606.0'		TOTAL DEPTH 274.0 (feet)				
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 08/01/07				
SAMPLING				LOGGED BY Granger/Bonnie/Mass		CHECKED BY Dogbey/Mass		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	43	5.0	4.6	2.4	92	48	195		385		DOLOMITE; light brownish gray; micritic; fresh; very strong; very hard; w/fossils (ostracodes); (Salina Group - Unit F).	
							196		384		20° J, Cl, Pa, Pl, R @ 196.1' grades argillaceous; gray @ 196.1' 70° J, VN, Ca, Fi, Pl @ 196.2-196.6'	
							197		383		LIMESTONE; dark grayish brown & grayish brown; pitted/vuggy; very fine to fine grained (crystalline); slightly to moderately weathered; strong; hard; pits/vugs 0.04-0.8"; irregular shape; many elongate; joints/vugs w/0.08" calcite crystals; (Salina Group - Unit F).	
							198		382		dolomite; light brownish gray; micritic; fresh; very strong; very hard @ 196.9-197.3'	
HQ	44	3.0	2.5	0.6	83	20	199		381		40° J, Ca, Fi, Pl, SR @ 198.4-198.5'	Water level @ 23.9' prior to drilling on 07/31/07.
							200		380		70° J, Ca, Fi, Ir, SR @ 199.8-200.1'	
							201		379		20° J, Ca, Cl, Pa, Pl, SR @ 200.8'	
							202		378		80° J, Ca, Cl, Pa, Pl, SR @ 201.1'	Core loss @ 201.4-202.0'. Core barrel jammed @ 202.0'.
HQ	45	2.0	2.0	0.8	100	40	203		377		siltstone band; calcareous, gray, very fine grained, highly weathered, weak; low hardness; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 201.3-201.4'	
							204		376		BRECCIA - claystone & dolomite clasts in a indurated limestone matrix; limestone matrix; argillaceous; gray; pitted/vuggy; micritic; slightly weathered; strong; moderately hard to hard; w/angular clasts of claystone & trace dolomite; dark gray & grayish brown; micritic; slightly weathered; strong; moderately hard to hard; (Salina Group - Unit F).	
HQ	46	1.5	1.5	0.8	100	53	205		375		50° J, Cl, Pa, Pl, R @ 202.3-202.5'	
							206		374		claystone parting; dolomitic; gray; highly weathered; weak; low hardness; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 205.3-205.4'	Core box #11 starts @ 205.5'.
							207		373		LIMESTONE; dark gray; pitted; micritic to very fine grained (crystalline); slightly to moderately weathered; strong; moderately hard to hard; pits 0.04-0.16", many elongate w/long axis parallel to bedding; calcite crystal growth in pits; (Salina Group - Unit F).	
HQ	47	3.5	3.5	1.6	100	46	208		372		90° J, Ca, Fi, Pl, SR @ 206.8-207.2'	
							209		371		argillaceous @ 207.6-207.8'	
							210				BRECCIA - claystone & dolomite clasts in a indurated limestone matrix; limestone matrix; argillaceous; gray; pitted; micritic; slightly weathered; strong; moderately hard to hard; w/angular clasts of claystone & trace	Core loss @ 209.0-210.0'.

CLIENT				PROJECT LOCATION				PROJECT NO.					
Detroit Edison				Fermi 3 COL Application				147483					
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)					
Monroe, MI				N 6273.2'				E 4606.0'					
SURFACE CONDITIONS				COORDINATE SYSTEM				DATE START					
Gravel parking lot				Plant				06/13/07					
DATE FINISHED				08/01/07									
SAMPLING				LOGGED BY				CHECKED BY					
				Grainger/Bonnie/Mass				Dogbey/Mass					
APPROVED BY				Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	48	5.0	4.0	0.5	80	10		210		370		dolomite; dark gray & grayish brown; micritic; slightly weathered; strong; moderately hard to hard; (Salina Group - Unit F).	
								211		369		LIMESTONE; dark gray; pitted; micritic to very fine grained (crystalline); slightly to moderately weathered; strong; moderately hard to hard; pits 0.04-0.16", many elongate w/long axis parallel to bedding; calcite crystal growth in pits; (Salina Group - Unit F). 20° J,N,Ca,Pa,PI,SR @ 208.5' 0° B,Ca,Fi,PI,SR @ 208.8'	
								212		368			
								213		367		DOLOMITE; light gray; micritic; fresh; strong; hard; w/ fossils & very dark gray; micritic; fresh; strong; hard; lenses & thin partings of limestone; (Salina Group - Unit F). 90° J,VN,Ca,Fi,WA @ 210.3-211.7' (many) 0° B,No,No,PI,SR @ 210.5', 211.6' fossils grade out @ 210.8' limestone partings - 0° B,PI,SR @ 211.2', 213.0'	Core loss @ 214.0-214.2'
HQ	49	5.0	4.8	1.6	96	32		214		366		LIMESTONE & DOLOMITE; gray, banded; micritic; fresh; strong; hard; (Salina Group - Unit F). limestone band; very dark gray; pitted/vuggy; micritic; slightly weathered; strong; hard @ 213.4-213.6'	
								215		365			
								216		364		LIMESTONE; dark gray; pitted; micritic to very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 90° J,Ca,Pa,PI,SR @ 214.3-214.6' 80° J,Ca,Fi,PI,SR @ 214.6-215.2'	
								217		363			
								218		362		DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; w/fossils (ostracodes); (Salina Group - Unit F). 0° B,No,No,PI,SR @ 215.9' limestone parting - 0° B,PI,SR @ 216.1' highly fractured @ 216.5-216.6'	Core loss @ 219.0-219.6'
								219		361			
								220		360		LIMESTONE; grayish brown; vuggy; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 20° J,Ca,Pa,PI,SR @ 217.5-217.6' highly fractured @ 218.3-218.4' 50° J,Ca,Fi,PI,SR @ 218.9'-219.0' claystone band; dolomitic; very dark greenish gray; very fine grained; highly weathered; very weak; low hardness; slight hydrocarbon odor; properties comparable to low plasticity, low toughness, no dilatancy soil fines @ 219.7-219.9' 30° J,Ca,Pa,PI,SR @ 220.4-220.5', 220.6-220.7' 70° J,Ca,Pa,PI,SR @ 220.8-221.2' dolomite; light brownish gray; micritic; fresh; strong; hard; @ 221.4-221.7' 20° J,No,No,PI,SR @ 222.8'	Core box #12 starts @ 221.7'.
HQ	50	5.0	4.4	1.0	88	20		221		359			
								222		358			
								223		357			
								224		356		DOLOMITE; light olive brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 10° J,CI,Fi,PI,SR @ 222.9'	Core loss @ 224.0-225.0'
								225		356			

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C3

SHEET 17 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2'										GROUND ELEVATION (DATUM) E 4606.0' 580.6 ft (NAVD 88)										TOTAL DEPTH 274.0 (feet)													
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07													
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		55		5.0		4.6		1.9		92		38		240								<p><b>DOLOMITE &amp; ANHYDRITE</b>; mottled; <b>DOLOMITE</b>: dark greenish gray to gray; fresh; strong; hard; <b>ANHYDRITE</b>: light greenish gray to light gray; micritic; fresh; strong; hard; massive; convoluted lenses and partings; (Salina Group - Unit F).  90° J, VN, anhydrite, Fi, WA @ 233.0-236.7' (many) -236.7'</p> <p><b>BRECCIA</b> - dolomite clasts in a poorly to indurated claystone matrix; claystone matrix; greenish gray to gray; slightly to highly weathered; moderately hard to very weak; moderately hard to low hardness; slight hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy soil fines; w/ angular clasts of dolomite; argillaceous; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). -241.3'</p> <p><b>LIMESTONE</b>; dark grayish brown; vuggy; very fine grained (crystalline); slightly weathered; strong; hard; vugs 0.04-0.4"; some vugs partially filled w/calcite; (Salina Group - Unit F).  90° J, Ca, Fi, WA, SR @ 241.3-242.0'  50° J, Ca, Fi, PI, SR @ 241.6-241.7'  70° J, Ca, Fi, PI, SR @ 241.9-242.3' -242.6'</p> <p><b>DOLOMITE</b>; argillaceous; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).  limestone parting - 0° J, PI, SR @ 243.0'  60° J, Ca, Fi, PI, SR @ 243.3-243.5' -243.7'</p> <p><b>DOLOMITE</b>; light brownish gray; micritic; fresh; very strong; hard; w/fossils (ostracodes); few shale partings; (Salina Group - Unit E).  20° J, No, No, PI, SR @ 244.8-244.9'  mottled w/limestone @ 244.9-245.0'  50° J, N, PI @ 245.5-245.9'  150° J, Ca, Fi, PI, SR @ 245.5' (2)  70° J, N, PI @ 245.8-246.1'  40° J, Ca, Fi, PI, SR @ 245.9-246.0'  90° J, VN, Ca, Fi, PI @ 246.3-247.2' -247.3'</p> <p><b>DOLOMITE &amp; LIMESTONE</b>; mottled; dolomite grades to limestone; (Salina Group - Unit E). -249.6'</p> <p><b>LIMESTONE</b>; dark grayish brown; pitted/vuggy; slightly to moderately weathered; strong; hard; highly fractured; dolomite fragments in limestone; (Salina Group - Unit E). -250.2'</p> <p><b>DOLOMITE</b>; light gray; micritic; fresh; strong; hard; w/ fossils (ostracodes); few stylolites &amp; shale partings; (Salina Group - Unit E).  44° J, Ca, Fi, PI, SR @ 250.6-250.8'  60°, 90°, J, N, Ca, Fi, PI, SR @ 250.9-251.1' (many fractures)  90° J, Ca, Pa, PI, SR @ 251.4-252.0'  0° J, CI, Pa, PI, SR @ 251.5-252.6'  grades pale yellow; pitted; w/fossils that dissolve to</p>																				Core loss @ 249.0-249.4'. Water level @ 24.5' prior to drilling on 08/01/07.  Core box #14 starts @ 254.0'.	
HQ		56		5.0		5.0		2.1		100		42		244																													
HQ		57		5.0		4.6		1.5		92		30		249																													
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# BLACK & VEATCH

## BORING LOG

**BORING NO. RB-C3**

SHEET 18 OF 19

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SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

# BLACK & VEATCH

# BORING LOG

**BORING NO. RB-C3**

SHEET 19 OF 19

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6273.2'					E 4606.0'					580.6 ft (NAVD 88)		274.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					06/13/07		08/01/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Granger/Bonnie/Mass					Dogbey/Mass					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS								
CORING																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	62	1.0	1.0	0.0	100	0	270														
			270.5																		
HQ	63	3.5	3.5	3.5	100	100	272														
							273														
							274														
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C4

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																																															
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07																																															
SAMPLING										LOGGED BY TB for Bonnie/Grainger/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY Meyer <i>EM</i>																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																						
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	CORING																																																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																																						
S 1										5.0										NR										0 580										Poorly graded COBBLES - About 90% angular to subangular, cobbles w/max. size 9"; about 10% sand; dark reddish gray; dry; weak reaction w/HCl; homogeneous; (Fill).										Boring advanced w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler.																											
S 2										NR										5 575										Discrete sample S01 collected from S-1.																																															
S 3										NR										10 570										Discrete sample S02 collected from S-2.																																															
																				11 569																																																									
																				12 568										Lean CLAY with Gravel (CL) - About 82% LL=34, PL=17, no dilatancy, high dry strength fines; about 10% gravel; about 8% fine to coarse sand; reddish brown & gray, mottled; moist; no reaction w/HCl; homogeneous.										Discrete sample S03 collected from S-3 (between 12.0' & 14.0').																																					
																				13 567																																																									
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 2 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																			
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07																			
SAMPLING										LOGGED BY Bonnie/Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																			
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																					
TW		4				15.0						1.7		15		565		564		<p>Lean CLAY (CL) - About 99% LL=37, PL=17 fines; about 1% fine to medium sand; reddish brown &amp; gray, mottled; moist; no reaction w/HCl; homogeneous.</p>										<p>Below 15.0', continued w/NWJ rods &amp; 4½" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer.</p>																			
SPT		5		3		5		6		11		1.5		16		563		562																															
TW		6										1.0		17		561		560		<p>Lean CLAY (CL) - About 90% LL=40, PL=19, slow dilatancy, high dry strength fines; about 10% fine to coarse sand; &lt;1% gravel; dark gray &amp; weak red; laminated; soft; moist; (Glacial Till).</p>										<p>Lean CLAY with Sand and Cobbles (CL) - About 80% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 5% angular, hard cobbles; dark gray; very stiff; moist; strong reaction w/HCl; homogeneous; (Glacial Till). grades w/cobbles @ 21.2'</p>										<p>TW refusal @ 21.2'. Hard drilling @ 21.2'.</p>									
SPT		7		2		6		12		18		1.0		18		559		558																															
TW		8										0.2		19		557		556		<p>Lean CLAY with Sand (CL) - About 71% LL=24, PL=13, high dry strength fines; about 27% fine to coarse, rounded, hard sand; about 2% gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</p>										<p>TW refusal @ 24.2'. Sample w/pitcher sampler.</p>																			
P		9										1.2		20		555		554																															
														21		553		552		<p>Clayey SAND (SC) - About 73% fine to coarse, rounded, hard sand; about 17% LL=18, PL=11 fines; about 10% gravel; dark gray; moist; strong reaction w/HCl; homogeneous; (Glacial Till). grades w/cobbles @ 26.0'</p>										<p>PP &gt; 4.5 TSF @ 26.0'. Drilling indicates gravel &amp; cobbles @ 26.0'.</p>																			
														22		551		550																															

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 3 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6188.9'		GROUND ELEVATION (DATUM) E 4448.8'		TOTAL DEPTH 271.8 (feet)				
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/13/07				
SAMPLING				LOGGED BY Bonnie/Grainger/Mass				CHECKED BY Dogbey/Mass				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	10	50/4"	-	-	50+	0.2	30		550			
			31.3				31		549			
S	11					3.4	32		548			
							33		547			
							34		546			
			34.7				35		545			
HQ	1	4.3	4.3	2.1	100	49	36		544			
							37		543			
							38		542			
			39.0				39		541			
							40		540			
HQ	2	5.0	5.0	2.9	100	58	41		539			
							42		538			
							43		537			
			44.0				44		536			
							45		536			

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DOLOMITE; dark gray; micritic; slightly weathered; very strong; very hard; medium bedded; (Bass Islands Group).

DOLOMITE; gray; micritic; fresh; strong; hard; w/moderately wide spaced stylolites; (Bass Islands Group).  
 0°, J, Gy, Pa, WA, R @ 35.3'  
 0°, J, No, No, PI, R @ 35.7', 35.9'

90°, J, No, No, PI, SR @ 37.6-39.0'  
 85°, J, No, No, PI, SR @ 37.6-39.0'  
 numerous, closely spaced fractures @ 37.6-39.0'

0°, J, CI, FI, PI, SR @ 38.8'

90°, J, No, No, PI, R @ 39.2-39.8'  
 0°, J, CI, Pa, PI, SR @ 39.3', 39.9', 40.0', 40.2'  
 20°, J, No, No, PI, SR @ 39.6'  
 highly fractured @ 40.0-40.2'  
 grades brownish gray @ 40.2'

0°, B, No, No, PI, R @ 41.1'

0°, B, UK, FI, PI, SR @ 41.7'  
 0°, B, No, No, PI, SR @ 41.9', 42.8'  
 90°, J, CI, Pa, PI, SR @ 42.0-42.6'  
 gray; very fine to fine grained (crystalline) @ 42.2-42.8'

60°, J, No, No, PI, SR @ 43.1-43.2'  
 0°, B, UK, Pa, PI, SR @ 43.2', 43.4', 43.7', 43.9'  
 90°, J, No, No, Ir, SR @ 43.4-44.0' (3) intersect about vertical axis  
 highly fractured @ 44.0-44.5'

DOLOMITE; gray; vuggy; micritic to fine grained

Water level @ 18.2' prior to

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 4 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6188.9' E 4448.8'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant				DATE START 06/14/07				
DATE FINISHED 07/13/07				LOGGED BY Bonnie/Grainger/Mass				CHECKED BY Dogbey/Mass				
APPROVED BY Meyer				SAMPLING				REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	3	5.0	5.0	2.5	100	50	45		535		(crystalline); fresh to slightly weathered; strong; very hard; largest vug about 1" diameter; larger vugs partially filled with calcite crystals; (Bass Islands Group).	drilling on 06/27/07.
							46		534		30° J,Ca,Pa,PI,SR @ 44.5'	
											60° J,Ca,Pa,PI,R @ 46.0-46.4'	
							47		533		110° J,Ca,Pa,PI,R @ 46.0-46.4'	
											0° B,No,No,WA,R @ 46.6'	
							48		532		10° J/B,Ca,Pa,PI,SR @ 48.3'	
							49		531		20° J/B,No,No,PI,SR @ 48.8'	Core box #2 starts @ 49.0'.
			49.0								grades pale brown @ 49.0'	
											0° B,Cl,Pa,PI,R @ 49.0'	
											0° B,UK,Pa,St,SR @ 49.3'	
							50		530		90° J,UK,Pa,PI,SR @ 49.3-49.5'	
											135° J,Cl/Ca,Pa,PI,SR @ 50.1-50.4'	
											20° J,Cl/Ca,Pa,PI,SR @ 50.2-50.4'	
											20° J,Cl,Pa,PI,SR @ 50.6'	
							51		529		85° J,No,No,PI,SR @ 50.9-51.0'	
											0° B,UK,Pa,PI,SR @ 51.1'	
											30° J,No,No,PI,SR @ 51.1-51.2'	
							52		528		75° J,No,No,PI,R @ 51.7-51.9'	
											140° J,UK,Pa,PI,SR @ 51.8-52.1'	
											90° J,Ca,Pa,WA,SR/R @ 52.2-53.6'	Drill chatter @ 52.4'.
											75° J,Ca,Pa,PI,SR @ 52.3-52.5'	
							53		527		0° B,No,No,PI,SR @ 52.4'	
											DOLOMITE; gray; micritic to very fine grained (crystalline); fresh; very strong; hard; w/claystone partings (<0.1" thick) & moderately wide spaced stylolites; (Bass Islands Group).	Drill chatter @ 54.0'.
							54		526			Core barrel jammed @ 54.0'.
											40° J,No,No,PI,SR @ 54.9-55.2'	
							55		525			
							56		524		very closely spaced stylolites @ 56.2-56.8'	
							57		523			
											85° J,Ca,Pa,PI,SR @ 57.3-59.0'	Core loss @ 57.4-58.0'.
											0° B,Ca,Pa,PI,SR @ 57.3', 57.7', 57.8'	
							58		522		highly fractured @ 57.4-58.0'	
											40° J,Ca,Pa,PI,SR @ 58.0'	
							59		521			Drill chatter @ 59.2'.
											SHALE; black; platy; very fine grained; fresh; moderately strong; moderately hard;	
							60					

CLIENT										PROJECT NO.																																							
Detroit Edison										Fermi 3 COL Application																																							
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																		
Monroe, MI					N 6188.9'					E 4448.8'					580.2 ft (NAVD 88)																																		
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																													
Gravel parking lot near field										Plant					06/14/07					07/13/07																													
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																													
										Bonnie/Grainger/Mass					Dogbey/Mass					Meyer																													
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS														
CORE SIZE										RUN NUMBER					RUN LENGTH					RUN RECOVERY					RQD					PERCENT RECOVERY					RQD														
HQ										6					5.0					5.0					3.4					100					68														
HQ										7					5.0					4.6					2.5					92					50														
HQ										8					5.0					5.0					2.2					100					44														
</																																																	



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C4

SHEET 6 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI					COORDINATES N 6188.9' E 4448.8'					GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)					TOTAL DEPTH 271.8 (feet)																		
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 07/13/07													
SAMPLING										LOGGED BY Bonnie/Grainger/Mass					CHECKED BY Dogbey/Mass					APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
HQ		9		5.0		4.4		0.7		88		14		75				505				60° J, No, No, PI, SR @ 75.3-75.4' 0° B, UK, FI, PI, SR @ 75.5' 70° J, No, No, PI, SR @ 75.7-76.4' 90° J, No, No, PI, SR @ 76.3'											
														76				504				highly fractured @ 77.2-77.3' 10° J, CI, FI, PI, SR @ 77.2' 10° J, No, No, PI, SR @ 77.3' 70° J, No, No, PI, SR @ 77.4-77.9' 0° B, CI, FI, PI, SR @ 78.4' 90° J, Ca, Pa, PI, SR @ 78.4-78.9' 90° J, No, No, PI, SR @ 78.5' 50° J, Ca, Pa, PI, SR @ 78.7' highly fractured @ 78.8-79.0' very closely spaced stylolites @ 79.6-80.0'											
														77				503															
														78				502															
														79				501															
														80				500															
														81				499				DOLOMITE; brecciated (healed); w/many closely spaced vugs & joints, irregular rough surfaces; vugs & joints filled w/about 0.5" calcite crystals & about 1-2" anhydrite crystals; (Bass Islands Group). brecciated (not healed) @ 80.8-81.1' 40° J, Ca/Mg, Pa, PI, SR @ 81.2-81.3'										Water level @ 18.0' prior to drilling on 06/28/07. Core box #4 starts @ 79.0'. Core loss @ 80.5-80.7'.	
														82				498															
														83				497				DOLOMITE; light brownish gray; micritic to very fine grained; fresh; strong; hard; w/black; platy; moderately strong; moderately hard; very closely spaced claystone partings; thickest parting 0.2"; moderately wide to widely spaced stylolites; (Bass Islands Group). highly fractured @ 83.2-84.2' 0° B, UK, Pa, PI, SR @ 83.3' 90° J, No, Ir, R @ 83.3-85.1' (2, parallel) highly fractured @ 84.9-85.1'										Soft material @ 83.5'. Core loss @ 83.7-84.0'.	
														84				496															
														85				495															
														86				494				10° J/B, No, No, PI, SR @ 86.4' grades pale brown; stylolites & vugs absent @ 86.5'											
														87				493				DOLOMITE; brecciated (healed); pale brown; w/shale partings; (Bass Islands Group).											
														88				492				SHALE; very dark gray; platy; very fine grained; slightly weathered; moderately strong; moderately hard; (Bass Islands Group).										Drill chatter @ 88.0'.	
														89				491				DOLOMITE; grayish brown; micritic to very fine grained (crystalline); fresh; strong; hard; (Bass Islands Group). 0° B, No, No, PI, SR @ 87.7'											
														90																			

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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 7 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483							
PROJECT LOCATION Monroe, MI				COORDINATES N 6188.9' E 4448.8'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				TOTAL DEPTH 271.8 (feet)			
SURFACE CONDITIONS Gravel parking lot near field						COORDINATE SYSTEM Plant				DATE START 06/14/07		DATE FINISHED 07/13/07			
SAMPLING						LOGGED BY Bonnie/Grainger/Mass				CHECKED BY Dogbey/Mass				APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS			REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
HQ	12	5.0	5.0	3.7	100	74	90		490		70° J,Ca,Pa,Ir,SR @ 87.7-88.4', 87.8-87.9' banded w/shale @ 87.7-88.1'			No drilling fluid return @ 93.5'. Core box #5 starts @ 94.0'.	
							91	489	0° B,UK,Pa,PI,SR @ 88.1' w/fossils (ostracodes) @ 88.1-88.4'						
							92	488	75° J,VN,UK,PI @ 88.4-88.8' highly fractured @ 88.8-89.5'						
							93	487	90° J,Ca,Pa,PI,SR @ 89.5-89.8'						
							94	486	90° J,VN,UK,Ir @ 90.3-91.0'						
							95	485	80° J,No,Pa,PI,SR @ 91.0-91.3'						
							96	484	30° J,Cl,Pa,PI,SR @ 91.8'						
							97	483	30° J,UK,Pa,St,SR @ 92.8'						
							98	482	90° J,VN,No,Pa,PI @ 93.0-93.4'						
							99	481	30° J,Cl,Pa,PI,SR @ 93.4-93.5'						
HQ	13	5.0	5.0	2.5	100	50	94		486		DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; (Bass Islands Group).			Drill chatter @ 98.5'.	
							95	485	claystone lens @ 95.4'						
							96	484	60° J,Ca,Pa,PI,SR @ 95.4-95.5'						
							97	483	0° J,No,Pa,PI,SR @ 95.7', 96.9', 97.9'						
							98	482	10° J/B,Cl,Pa,PI,SR @ 96.2'						
							99	481	claystone parting; black; fresh; moderately strong; moderately hard @ 96.4-96.5'						
							100	480	DOLOMITE; gray, banded; micritic; fresh; strong; hard; w/gray, wavy, convoluted, very closely spaced claystone partings; (Bass Islands Group).						
							101	479	60° J,No,Pa,PI,SR @ 96.5-96.6'						
							102	478	highly fractured @ 96.9'						
							103	477	DOLOMITE; argillaceous; gray & dark gray, banded; micritic; fresh; moderately strong; hard; horizontal bands; w/gray claystone partings; (Bass Islands Group).						
HQ	14	5.0	5.0	4.3	100	86	99		481		80° J,Ca,Pa,PI,SR @ 99.0-100.1'			Drill chatter @ 103.5'.	
							100	480	0° B,Cl,Fi,PI,SR @ 99.2'						
							101	479	highly fractured @ 101.1-101.2'						
							102	478	grades dark gray; w/very closely spaced claystone partings @ 101.3'						
							103	477	0° B,Cl,Fi,PI,SR @ 101.7'						
							104	476	10° B,Cl,Pa,PI,SR @ 102.4'						
							105	475	0° B,Cl,Fi,PI,SR @ 102.6', 103.1'						
							106	474	10° B,Cl,Pa,PI,SR @ 103.6'						
							107	473	0° B,Cl,Pa,PI,SR @ 104.3'						
							108	472	80° J,Ca,Pa,PI,SR @ 104.3-104.4'						

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 8 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI					COORDINATES N 6188.9' E 4448.8'					GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)					TOTAL DEPTH 271.8 (feet)																		
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 07/13/07													
SAMPLING										LOGGED BY Bonnie/Grainger/Mass					CHECKED BY Dogbey/Mass					APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																					
HQ		15		5.0		5.0		2.5		100		50		105				475				0° B, No, No, PI, SR @ 104.6', 107.3' 0° B, Ca, Pa, PI, SR @ 104.9', 105.5' highly fractured @ 104.9-105.5' 60° J, No, No, PI, SR @ 105.5-105.6' grades light brownish gray; few claystone partings; moderately wide spaced stylolites @ 105.6' 15° J, Ca, Fi, PI, SR @ 105.9' 90° J, Ca, Pa, PI, SR @ 105.9-106.6'										Core loss @ 104.9-105.5'. Drill chatter @ 105.0'.	
HQ		16		5.0		5.0		1.4		100		28		106				474				0° B, Ca, Pa, PI, SR @ 107.8'  90° J, Ca, Pa, PI, SR @ 108.7-111.4' 90° J, No, No, PI, SR @ 109.0-109.8' 0° B, No, No, PI, SR @ 109.4' 30° J, No, No, PI, S @ 109.4-109.7', 109.6-109.8' claystone bands; light gray; highly weathered; very weak; low hardness; w/angular fragments of dolomite @ 109.8-110.0', 110.7-110.9' calcite parting; white; 0.1" thick @ 110.9'										Core box #6 starts @ 109.0'.	
HQ		17		5.0		4.1		1.2		82		24		107				473				60° J, CI, Pa, PI, SR @ 114.0-114.3', 114.6-114.9' 60° J, W, CI, Fi, PI, SR @ 114.3-114.6'  50° J, CI, Pa, PI, SR @ 114.9-115.2'  highly fractured; some claystone partings & lenses; thickest lens 1.2" @ 115.7-117.9'										Core loss of 0.9' @ 115.7-117.9'.	
														108				472				DOLOMITE; argillaceous; dark gray; vuggy; micritic; fresh to slightly weathered; strong; hard to very hard; w/stylolites; (Bass Islands Group). 90° J, Ca, Pa, WA, SR/R @ 111.8-113.7'											
														109				471															
														110				470															
														111				469															
														112				468															
														113				467															
														114				466															
														115				465															
														116				464															
														117				463															
														118				462				50° J, Ca, Pa, PI, SR @ 117.9-118.0' 120° J, Ca, Pa, PI, SR @ 117.9-118.0'											
														119				461				highly fractured @ 118.8-119.1'											
														120								0° J, UK, Pa, Ir, R @ 119.3'											



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 9 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07																																																																															
SAMPLING										LOGGED BY TB for Bonnie/Granger/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY F-1 Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																							
HQ										18										5.0										4.2										1.2										84										24										120										460										<p>DOLOMITE; argillaceous; &amp; SHALE; dolomitic; gray &amp; dark gray, banded; vuggy; micritic to very fine grained; fresh to slightly weathered; strong; moderately hard to hard; w/claystone partings; (Salina Group - Unit F).  60° J,Ca,Pa,PI,SR @ 121.3-121.9'  claystone partings - 0° B,PI,SR @ 121.9', 122.2', 122.3', 122.9', 123.2', 123.4', 123.7'  70° J,Ca,Pa,PI,SR @ 122.6-122.8'  60° J,Ca,Fi,PI,SR @ 123.1-123.4'</p>										Core loss @ 120.5-121.3'.									
HQ										19										5.0										4.2										0.7										84										14										121										459																													
HQ										20										5.0										1.8										0.4										36										8										122										458																													
HQ										21										5.0										1.8										0.4										36										8										123										457																													
HQ										19										5.0										4.2										0.7										84										14										124										456										60° J,No,No,PI,SR @ 124.3-124.5'										Core box #7 starts @ 124.0'.									
HQ										19										5.0										4.2										0.7										84										14										125										455										<p>DOLOMITE; argillaceous; &amp; SHALE; dolomitic; gray; vuggy; micritic; fresh to moderately weathered; strong; moderately hard; w/lenses &amp; partings of dolomitic &amp; shaley limestone &amp; anhydrite; (Limestone; gray; slightly weathered; very fine to fine grained; moderately strong; moderately hard; mostly lenses; Anhydrite; white; micritic; fresh to slightly weathered; moderately strong; moderately hard; mostly partings); (Salina Group - Unit F).  highly fractured @ 125.7-125.9'  80° J,CI,Fi,PI,SR @ 126.2-126.8'  highly fractured @ 126.4-127.8'  20° J,Ca,Pa,PI,SR @ 127.4-127.5'  60° J,Ca,Pa,PI,SR @ 127.9-128.1'</p>										Core loss in highly weathered, fractured rock.									
HQ										19										5.0										4.2										0.7										84										14										126										454																													
HQ										20										5.0										1.8										0.4										36										8										127										453																													
HQ										21										5.0										1.8										0.4										36										8										128										452																													
HQ										20										5.0										1.8										0.4										36										8										129										451										Water level @ 22.3' prior to drilling on 06/29/07. Core loss @ 129.4-134.0'.																			
HQ										20										5.0										1.8										0.4										36										8										130										450										<p>LIMESTONE; argillaceous; dark gray; vuggy; crystalline; very fine to fine grained; slightly to moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).  highly fractured @ 129.5-134.0'</p>										Core loss throughout @ 134.0-149.0'.									
HQ										21										5.0										1.8										0.4										36										8										131										449																													
HQ										22										5.0										1.8										0.4										36										8										132										448																													
HQ										23										5.0										1.8										0.4										36										8										133										447																													
HQ										24										5.0										1.8										0.4										36										8										134										446										claystone band; gray; highly weathered; very weak; low hardness; w/highly fractured limestone partings @ 132.7-132.9'																			
HQ										25										5.0										1.8										0.4										36										8										135										445										0° B,CI,Fi,PI,SR @ 133.0',133.2'																			

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C4****SHEET 10 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07									
SAMPLING										LOGGED BY TB for Bonnie/Grainger/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY F Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
HQ	21	2.5	0.0	0.0	0	0	135		445		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).										Soft drilling starts @ about 135.0'. Drilling water reduced to minimum. Bit clogged w/clay-like material.																		
							136		444																														
			136.5				137		443		DOLOMITE; argillaceous; dark gray; vuggy; very fine grained (crystalline); fresh to slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).																												
HQ	22	2.5	1.5	0.0	60	0	138		442		0°B,Cl,Pa,Pl,SR @ 137.2', 137.3', 137.5' 40°J,Ca,Pa,Pl,SR @ 138.3-138.5'																												
			139.0				139		441		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).																												
HQ	23	2.5	0.0	0.0	0	0	140		440																														
			141.5				142		438																														
HQ	24	2.5	1.0	0.0	40	0	143		437		dolomite fragments; dark grayish brown; very fine grained (crystalline); fresh; strong; hard @ 142.3-143.3'																												
			144.0				144		436																														
HQ	25	2.5	0.6	0.0	24	0	145		435		DOLOMITE; greenish gray; micritic to very fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F).																												
			146.1				146		434		90°J,Cl,Pa,Pl,SR @ 145.1-145.3'																												
			146.5				147		433		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).																												
HQ	26	2.5	1.6	0.0	64	0	148		432		CLAYSTONE; dolomitic; gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).																												
			149.0				149		431		dolomite fragments; argillaceous; gray; very fine grained (crystalline); fresh to slightly weathered; strong; moderately hard @ 147.1-148.2'																												
							150				90°J,Ca/Cl,Pa,Pl,SR @ 148.1-148.3' 40°J,Ca/Cl,Pa,Pl,SR @ 148.3-148.5' 70°J,Ca/Cl,Fi,Pl,SR @ 148.3-148.5' 80°J,Cl,Fi,Pl,SR @ 149.0-149.4'																												
											dolomite; argillaceous; gray; micritic; slightly weathered; moderately strong; moderately hard @																												



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C4

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																										
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																																																																
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07																																																																
SAMPLING										LOGGED BY Bonnie/Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																																
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																							
HQ 27 2.5 2.1 0.8 84 32										150																				430																				149.0-149.4', 149.7-149.9'																																												
										151																				429																				BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; gray; moderately weathered; weak; moderately hard; w/ angular clasts of dolomite; gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). dolomite band; gray; very fine grained; slightly weathered; strong; hard @ 150.5-150.6' dark gray @ 150.6-151.1' dolomite; vuggy @ 151.9-152.2', 152.9-153.2' 70°, J, Cl, Pa, Pl, SR @ 152.0-152.2' dolomite band; argillaceous; dark gray; moderately weathered; moderately strong; moderately hard @ 152.5-152.7' 90°, J, Ca, Pa, Pl, R @ 152.9-153.2' highly fractured @ 154.0-157.3' grades dark gray; weak; low hardness @ 154.0'										Core loss @ 151.1-151.5'.																																		
HQ 28 2.5 1.8 0.0 72 0										152																				428																																																																
										153																				427																																																																
										154																				426																																																																
										155																				425																																																																
HQ 29 5.0 1.1 0.0 22 0										156																				424																																																																
										157																				423																																																																
										158																				422																																																																
										159																				421																																																																
HQ 30 2.5 1.4 0.0 56 0										160																				420																				claystone & sand; highly fractured; w/angular & subangular dolomite fragments @ 159.5-160.9'																																												
										161																				419																																																																
										162																				418																																																																
HQ 31 2.5 2.5 1.0 100 40										163																				417																				Poorly graded SAND (SP) - About 95% medium sand; about 5% low plasticity, low toughness, slow dilatancy, low to medium dry strength fines; bluish gray; loose; moist; strong reaction w/HCl; weak silt/ clay cementation; grades coarser w/depth in layer; (Salina Group - Unit F).																																												
										164																				416																				CLAYSTONE; dolomitic; bluish gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).																																												
										165																				415																				CLAYSTONE; brecciated, broken; w/highly fractured dolomite partings; (Salina Group - Unit F).										Core loss @ 164.0-164.4'.																																		



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C4

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																																																																	
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07																																																																	
SAMPLING										LOGGED BY Bonnie/Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																																	
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																								
HQ 32 2.5 2.1 0.0 84 0										165																				415																				dolomite band; gray; very fine grained; fresh; strong; moderately hard @ 163.8-164.0'																																													
										166																				414																				Silty SAND (SM) - About 85% fine sand; about 15% low plasticity, low toughness, slow dilatancy, low dry strength fines; bluish gray; loose; moist; strong reaction w/HCl; weak silt/clay cementation; grades coarser w/depth in layer; (Salina Group - Unit F).										Core barrel jammed @ 166.2'.																																			
HQ 33 2.5 1.5 0.0 60 0										167																				413																				CLAYSTONE; dolomitic; brecciated, broken; greenish gray; highly weathered; weak; low hardness; w/highly fractured dolomite partings; (Salina Group - Unit F). silty sand parting @ 166.2-166.3'																																													
										168																				412																				DOLOMITE; argillaceous; greenish gray; very fine grained; fresh; strong; moderately hard; highly fractured; (Salina Group - Unit F). 90° J, CI, Pa, PI, SR @ 167.8-168.0'																																													
HQ 34 2.5 0.0 0.0 0 0										169																				411																				CLAYSTONE; dolomitic; brecciated, broken; greenish gray; highly weathered; weak; low hardness; w/highly fractured dolomite partings; (Salina Group - Unit F).										No recovery from run HQ-34 after two attempts.																																			
										170																				410																																																																	
										171																				409																																																																	
HQ 35 2.5 0.5 0.0 20 0										172																				408																				Core loss throughout @ 171.5-174.0'. Drill chatter @ 172.0'.																																													
										173																				407																				BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dark gray; fresh; weak; moderately strong; moderately hard; w/angular clasts of dolomite; gray; very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). dolomite band; argillaceous; gray; fresh; moderately strong; moderately hard @ 172.9-173.0'																																													
HQ 36 2.5 0.0 0.0 0 0										174																				406																				Soft drilling; washout @ < 0.5' intervals @ 174.0-179.0'. Drill chatter @ 174.0'. Drill chatter @ 175.0'.																																													
										175																				405																																																																	
										176																				404																																																																	
										177																				403																				Soft drilling; washout @ < 0.5' intervals @ 176.5-179.0'.																																													
HQ 37 2.5 0.0 0.0 0 0										178																				402																																																																	
										179																				401																				dolomite fragments; some vuggy; gray and brown; micritic; fresh to slightly weathered; moderately strong; moderately hard to hard @ 179.0-181.3'										Core loss @ 179.0-181.3'.																																			
										180																																																																																					

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C4****SHEET 13 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																								
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																																														
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07																																														
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																						
HQ 38 2.5 1.2 0.0 48 0							180						400			dolomite fragments; argillaceous; dark bluish gray; very fine grained; fresh; strong; moderately hard @ 181.3-181.5'										Core loss @ 181.5-187.9'.																																																		
							181						399																																																															
							182						398																																																															
HQ 39 2.5 0.0 0.0 0 0							183						397			dolomite fragments; argillaceous; greenish gray; some pitted; micritic; fresh; strong; moderately hard; highly fractured @ 184.9-185.7'										Drill chatter @ 184.5'.																																																		
							184						396																																																															
							185						395																																																															
HQ 40 2.5 0.8 0.0 32 0							186						394			highly fractured zone; angular dolomite fragments @ 187.9-188.3'										Core loss @ 189.0-190.9'.																																																		
							187						393																																																															
							188						392																																																															
HQ 41 2.5 1.1 0.5 44 20							189						391			BRECCIA - limestone clasts in a poorly to well indurated claystone matrix: claystone matrix; dolomitic; dark bluish gray; slightly to moderately weathered; moderately strong; moderately hard; w/ angular clasts of limestone; gray; vuggy; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F). highly fractured @ 189.0-190.9' grades w/fragments of angular dolomite @ 190.9-191.3' dolomite; argillaceous; very dark gray; micritic; fresh; strong; moderately hard @ 191.3-191.6' 90° J, Ca, Pa, Pl, SR @ 191.3-191.6' claystone band; dolomitic; gray; highly weathered; very weak; low hardness @ 191.6-191.8'										Core box #9 starts @ 193.4'.																																																		
							190						390																																																															
							191						389																																																															
HQ 42 2.5 1.1 0.0 44 0							192						388			BRECCIA - limestone & dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dark gray; slightly weathered; moderately strong; hard; w/ angular clasts of limestone & dolomite; (Salina Group - Unit F). some rounded, rip-up clasts of dolomite @ 192.1' moderately weathered; weak; low hardness @ 193.0-																																																												
							193						387																																																															
							194						386																																																															
HQ 43 2.5 2.5 1.0 100 40							195						385																																																															



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C4

SHEET 14 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																																																															
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SAMPLING										LOGGED BY Bonnie/Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																															
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																							
HQ 44 2.5 1.6 0.8 64 32							195							385														193.4'										<p>LIMESTONE; olive gray; vuggy; fine grained (crystalline); moderately weathered; strong; moderately hard; some shale/claystone partings at top; (Salina Group - Unit F). dolomite; light brownish gray; micritic; fresh; strong; hard; some thin vertical banding @ 196.1-196.5' claystone; gray; moderately weathered; weak; low hardness @ 196.5-196.8' dolomite band; light gray; micritic; fresh; strong; moderately hard @ 197.2-197.3' 30°, J, Ca, Fi, PI, SR @ 197.5' 60°, J, No, No, PI, SR @ 198.0'</p>										Core loss @ 195.2-196.1'.																																													
HQ 45 2.5 2.5 0.5 100 20							196							384														196.5																				Core loss @ 197.0', 197.5'.																																													
HQ 46 5.0 3.1 1.9 62 38							197							383														199.0																				Core loss @ 199.0-200.9'.																																													
HQ 47 5.0 3.1 1.1 62 22							198							382														201.4																				Core loss @ 204.0-206.0'.																																													
							199							381														201.4																																																																	
							200							380														202.4																																																																	
							201							379														202.4																																																																	
							202							378														207.5																																																																	
							203							377																																																																															
							204							376																																																																															
							205							375																																																																															
							206							374																																																																															
							207							373																																																																															
							208							372																																																																															
							209							371																																																																															
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**BLACK & VEATCH****BORING LOG****BORING NO. RB-C4****SHEET 15 OF 19**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6188.9'		GROUND ELEVATION (DATUM) E 4448.8'		TOTAL DEPTH 580.2 ft (NAVD 88) 271.8 (feet)				
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/13/07				
SAMPLING				LOGGED BY Bonnie/Grainger/Mass		CHECKED BY Dogbey/Mass		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	48	5.0	5.0	3.2	100	64	210		370		mottled w/dolomite @ 209.9-210.1'	
							211		369		DOLOMITE; grayish brown; micritic; fresh; very strong; moderately hard; w/fossils (ostracodes); (Salina Group - Unit F). 0°, B/J, Ca, Pa, PI, SR @ 210.1'	
							212		368		0°, B/J, Ca, Fi, PI, SR @ 210.5', 210.6', 210.7', 210.8'	
							213		367		mottled w/limestone @ 210.8-210.9'	
							214		366		80°, J, Ca, Fi, WA, SR @ 211.1-211.5'	
							215		365		stylolites @ 211.8'	
							216		364		claystone bands; greenish gray; highly weathered; weak; low hardness @ 212.8-212.9', 213.4-213.6'	
							217		363		90°, J, Ca, Fi, PI, SR @ 212.9-213.4'	
							218		362			
							219		361		LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F). 50°, J, Ca, Fi, PI, SR @ 214.0-214.1'	
							220		360		DOLOMITE; grayish brown; micritic; fresh; very strong; moderately hard; w/fossils (ostracodes); (Salina Group - Unit F). 30°, J, Ca, Pa, PI, SR @ 214.7-214.9'	
							221		359		LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F).	
							222		358		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 20°, J, Ca, Fi, PI, SR @ 216.2'	
							223		357		grades light gray @ 216.5'	
							224		356		mottled w/limestone @ 217.0-217.1'	
							225				LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils (Salina Group - Unit F).	
											DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). mottled w/limestone @ 218.3-218.7'	
											SHALE; light gray; fine grained; extremely weathered; very weak; friable; some dilatancy; convoluted base contact; (Salina Group - Unit F).	
											DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). claystone; dark gray; highly weathered; very weak; low hardness @ 220.1-220.5'	
											LIMESTONE; dark gray; vuggy; very fine grained; moderately weathered; strong; hard; (Salina Group - Unit F). 110°, J, Ca, Pa, PI, SR @ 220.8-221.4'	
											70°, J, Ca, Pa, PI, SR @ 221.4-221.7'	

Core box #10 starts @ 212.2'.



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C4

SHEET 16 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 271.8 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/13/07																																																																															
SAMPLING										LOGGED BY TB for Bonnie Grainger/Mass										CHECKED BY TB for E. B. Dogbey/Mass										APPROVED BY Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																						
HQ										51										5.0										3.4										0.6										68										12										225										355										DOLOMITE; light brownish gray; micritic; fresh; very strong; moderately hard; (Salina Group - Unit F). claystone; dark gray; highly weathered; very weak; low hardness @ 224.0-224.3'										Core loss @ 225.4-227.0'.									
HQ										52										5.0										2.4										0.4										48										8										226										354										BRECCIA - dolomite & limestone clasts in a well indurated claystone matrix; claystone matrix; bluish gray; slightly weathered; moderately strong; hard; w/ angular clasts of dolomite & limestone; (Salina Group - Unit F).										Core box #11 starts @ 227.5'.									
HQ										53										5.0										2.1										1.2										42										24										227										353										DOLOMITE; argillaceous; olive gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F). 70° J, Ca, Pa, PI, SR @ 227.0-227.4' 90° J, Ca, Pa, PI, SR @ 227.0-227.4' 130° J, Cl, Pa, PI, SR @ 227.1-227.3' 70° J, Ca, Pa, PI, SR @ 227.5-227.8' grades very dark greenish gray @ 227.6' 30° J, Cl, Pa, PI, SR @ 228.8'										PP = 0.1 TSF TV = 0.5 TSF @ 228.9-232.7'. Water level @ 20.1' prior to drilling on 07/12/07. Discrete sample 11-A collected @ 229.0-232.7'.									
HQ										54										5.0										2.1										1.2										42										24										228										352										DOLOMITE; argillaceous; pale brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 20° J, Cl, Fi, PI, SR @ 233.0' 50° J, Ca, Fi, PI, SR @ 233.2-233.4' 45° J, Cl, Fi, PI, SR @ 233.7-233.8' 130° J, Cl, Fi, PI, SR @ 233.7-233.8'; banding radiating outward from joint; banding offset in smaller cracks @ 233.6-233.8'										Discrete sample 11-B collected @ 232.7-233.0' for chemical analysis. Discrete sample 11-C collected @ 234.0-237.7'. PP = 1.3 TSF TV = 1.7 TSF @ 234.0-237.7'. Core loss @ 234.0-236.9'.									
HQ										55										5.0										2.1										1.2										42										24										229										351										CLAYSTONE; brecciated; dark gray; highly weathered; very weak; low hardness; some dilatancy; hydrocarbon odor; (Salina Group - Unit F).										Discrete sample 11-D collected @ 237.7-238.2' for chemical analysis. Core loss @ 239.0-239.6'.									
HQ										56										5.0										2.1										1.2										42										24										230										350										DOLOMITE; light gray; micritic; fresh to slightly																			



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 17 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6188.9'		GROUND ELEVATION (DATUM) E 4448.8'		580.2 ft (NAVD 88)		TOTAL DEPTH 271.8 (feet)		
SURFACE CONDITIONS Gravel parking lot near field						COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/13/07		
SAMPLING						LOGGED BY Bonnie/Grainger/Mass		CHECKED BY Dogbey/Mass		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	54	5.0	4.4	2.6	88	52	240		340		weathered; very strong; moderately hard to hard; (Salina Group - Unit E). 0°,B,UK,Pa,PI,SR @ 239.9'	
							241		339		argillaceous; highly fractured @ 240.1-240.7'	
							242		338		claystone; brecciated; gray; highly weathered; very weak; low hardness @ 240.3-240.5'	
							243		337		30°,J,Ca,Pa,PI,SR @ 240.9-241.0', 241.3-241.4', 242.0-242.1'	
							244		336		0°,B,UK,Pa,PI,SR @ 241.1', 241.6', 241.7', 241.9'	
							245		335		very closely spaced stylolites; highly fractured @ 241.5-241.9'	
							246		334		DOLOMITE; light gray; pitted/vuggy; micritic; fresh; very strong; hard; w/fossils (ostracodes); fossils dissolve to form small pits; (Salina Group - Unit E). very closely spaced stylolites @ 242.5'	
							247		333		0°,B,No,No,PI,SR @ 243.2', 244.6'	
							248		332		30°,J,Ca,Pa,PI,SR @ 245.4-245.6', 245.6-245.7'	
							249		331		50°,J,Ca,Pa,PI,SR @ 246.2-246.3'	
							250		330		claystone band; 0.4" thick @ 246.5'	
							251		329		0°,B,No,No,PI,SR @ 247.7'	
							252		328		gypsum parting; white; micritic; fresh; weak; low hardness @ 247.9'	
							253		327		10°,J,Gy,FI,PI,S @ 248.0-248.1'	
							254		326		stylolites @ 248.2'	
							255				highly fractured @ 248.8-249.0'	
											many fossils replaced w/calcite or gypsum lenses @ 249.5-249.6', 250.1-250.2', 250.4-250.6'	
											grades w/stylolites @ 249.9'	
											0°,B,No,No,PI,SR @ 250.1', 250.4', 250.5'	
											gypsum parting @ 250.4'	
											grades light brownish gray @ 250.6'	
											20°,J,No,No,PI,S @ 252.2'	
											90°,J,VN,Ca,FI,PI @ 253.6-255.0'	
												Core box #12 starts @ 246.7'. Core barrel jammed @ 246.7'. Drill bit teeth stripped @ 246.7'. Pulled casing & core barrel; replaced bit. Partial bit recovery in HQ-56. Core loss @ 246.7-247.0'. Added sand to sharpen new drill bit @ 249.0'
												Water level @ 20.7' prior to drilling on 07/13/07. Core loss @ 254.3-254.4'.

4/25/2008 6:35 PM DTE - Fermi 3 Geotech



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C4

SHEET 18 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6188.9' E 4448.8'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				TOTAL DEPTH 271.8 (feet)	
SURFACE CONDITIONS Gravel parking lot near field						COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/13/07			
SAMPLING						LOGGED BY Bonnie/Grainger/Mass		CHECKED BY Dogbey/Mass		APPROVED BY Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	58	5.0	4.9	2.9	98	58	255		325		highly fractured @ 255.0-256.1'		
							256		324		DOLOMITE; gray; micritic; fresh; very strong; very hard; w/gypsum, shale, & anhydrite partings that have a banded appearance; gypsum & anhydrite partings: white; micritic; fresh; moderately strong; moderately hard; shale partings: very dark gray; platy; fissile; very fine grained; fresh; moderately strong; moderately hard; partings/bands 0.1-1.2"; (Salina Group - Unit E). 0°,B,UK,Fi,PI,SR @ 256.3', 257.6', 257.8', 259.1'		
							257		323				
							258		322				
							259		321		grades w/interbedded gypsum w/convoluted boundaries @ 259.6'		
							260		320		claystone band; dark gray; highly weathered; very weak; low hardness; hydrocarbon odor @ 260.1-260.2'		
HQ	59	5.0	5.0	4.6	100	92	261		319		brecciated dolomite & claystone @ 261.8-262.0'	Discrete sample 12-A collected @ 261.0-261.2' for chemical analysis.	
							262		318		claystone band; light gray; highly weathered; very weak; low hardness; hydrocarbon odor @ 262.5-262.7'	Discrete sample 12-B collected @ 262.5-262.7' for chemical analysis.	
							263		317		30°,J,CI,Pa,PI,SR @ 262.8-262.9'	Core box #13 starts @ 262.7'.	
							264		316		DOLOMITE; dark grayish brown; pitted; micritic; fresh to slightly weathered; strong; hard; w/gypsum partings & bands (0.1-0.6"); (Salina Group - Unit E). 0°,B,CI,Pa,PI,SR @ 264.4'		
							265		315		DOLOMITE; argillaceous; very dark gray, banded; very fine grained (crystalline); fresh; strong; moderately hard; few gypsum partings; some shale partings; (Salina Group - Unit E).		
							266		314		0°,B,CI,Pa,PI,SR @ 265.2', 265.5'		
HQ	60	5.3	5.3	4.5	100	85	267		313		grades w/very dark gray; platy; very fine grained; fresh; moderately strong; moderately hard shale bands @ 265.9'		
							268		312		DOLOMITE; dark grayish brown; micritic; fresh; strong; moderately hard; w/convoluted gypsum partings, bands, & beds up to 0.4' thick; gypsum partings/bands/beds; white; micritic; crystalline; fresh; weak; moderately hard; (Salina Group - Unit E).		
							269		311		thickest gypsum bed @ 268.9-269.3'		
							270						

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C4****SHEET 19 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																								
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SAMPLING										LOGGED BY Bonnie/Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																																																																														
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																																						
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	285																																																																																																																																											

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4a

SHEET 1 OF 1

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6193.4' E 4445.3'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 6.0 (feet)																																	
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/14/07																																	
SAMPLING										LOGGED BY Bonnie <sup>TB</sup>										CHECKED BY E. J. for Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Em Meyer																																	
SAMPLE TYPE		SAMPLE NUMBER		SET		2ND 6 INCHES		3RD 6 INCHES		N		VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		RECOVERY		PERCENT		RECOVERY		RQD																																															
S		1				2.0										NR								<p>Poorly graded COBBLES - About 90% angular to subangular cobbles w/max. size 9"; about 5% sand; about 5% fines; dark reddish brown; dry; weak reaction w/ HCl; homogeneous; (Fill).</p> <p>Below 2.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p> <p>@ about 6' unidentified material &amp; strange sound was noticed; re-started vacuum excavation. Could not determine source of strange sound. Boring was abandoned. New boring (RB-C4) started @ 3.5' east &amp; 4.5' south of RB-C4a. Bottom of boring @ 6.0'. Boring dry @ completion. Backfilled with cuttings on 06/14/07.</p>																																							

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																						
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																																																												
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/28/07																																																												
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer EM																																																												
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																				
							0																														Silty COBBLES with Sand - About 60% angular; elongated; very hard cobbles w/max. size 12"; about 20% fine to coarse, rounded, hard sand; about 20% fines (silt); dark gray; loose; strong reaction w/HCl; homogeneous; (Fill).										Boring advanced w/vacuum excavation.																																											
S 1							3.5										NR																														Discrete sample S1 collected.																																											
S 2							5.0										NR																														Vacuum excavation was down to 5.5'; hole collapsed to 3.5'. Below 3.5' continue w/4" ID continuous sonic sampler w/ nominal 6" temporary steel casing advanced w/sampler.																																											
							10.0																														Discrete sample S2 collected.																																																					
S 3																	NR																														Fat CLAY (CH) - About 95% high plasticity, high toughness, no dilatancy, high dry strength fines; about 5% fine sand; gray; firm; moist; no reaction w/HCl; laminated; (Lacustrine Deposit).																																											
							14.0																																								Below 14.0' continue w/NWJ rods &																																											

CLIENT										PROJECT										SHEET # OF TOTAL SHEETS		
Detroit Edison										Fermi 3 COL Application										PROJECT NO. 147483		
PROJECT LOCATION Monroe, MI					COORDINATES N 6192.8'					GROUND ELEVATION (DATUM) E 4525.7'					580.6 ft (NAVD 88)					TOTAL DEPTH 270.5 (feet)		
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 06/28/07		
SAMPLING										LOGGED BY <i>C. Granger/Bonnie TB</i>					CHECKED BY <i>P. Dogbey/Bonnie TB</i>					APPROVED BY <i>E. Meyer</i>		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS	
CORING																						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																
TW	5					1.5	15		565												4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Sample #4 was skipped in the numbering sequence.	
							16		564		grades weak reaction w/HCl @ 17.0'											
							17		563													
							18		562													
							19		561		Sandy Lean CLAY (CL) - About 69% LL=24, PL=14, slow dilatancy, high dry strength fines; about 31% fine to medium sand; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).											
SPT	6	4	6	13	19	1.5	20		560													
							21		559													
							22		558													
							23		557													
							24		556		Sandy Lean CLAY with Gravel (CL) - About 65% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 20% fine to coarse, angular to subrounded, hard sand; about 15% fine to medium, angular to subrounded, hard gravel; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).											
TW	7					1.0	25		555													
							26		554		grades w/cobbles @ 26.5'										Thin wall sampler refusal @ 26.5'.	
							27		553													
							28		552													
							29		551		DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; very hard; w/stylolites; (Bass Islands Group).										Tricone refusal @ 29.0'.	
							30															

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 3 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)																																	
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07		DATE FINISHED 06/28/07																																	
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer SM																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																	
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																															
										30																Below 29.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1. Set nominal 6" temporary steel casing to 33.4'. Below 34.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 34.0'. Water level @ 15.27' prior to drilling on 06/21/07.																													
S										8																																													
										31																																													
										32																																													
										33																																													
										34																																													
HQ										1		1.5		1.1		0.75		73		50																																			
										35																																													
										36																																													
										37																																													
HQ										2		5.0		5.0		2.8		100		56																																			
										38																																													
										39																																													
										40																																													
										41																																													
										42																																													
HQ										3		5.0		5.0		1.4		100		28																																			
										43																																													
										44																																													
										45																																													

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)																																																																															
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07		DATE FINISHED 06/28/07																																																																															
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																																																							
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RQD																																																																																																					
HQ	4	5.0	5.0	3.2	100	64	45								shale parting @ 44.3' highly fractured @ 44.3-45.0' 90°, J, T, No, No, PI, SR @ 45.5-45.8'	Core box #2 starts @ 45.5'. Water level @ 16.2' prior to drilling on 06/25/07.																																																																																					
							46								0°, J, VN, No, No, WA, R @ 45.8', 46.2', 46.4' DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; 5% vugs; (Bass Islands Group).																																																																																						
							47								0°, J, VN, No, No, WA, R @ 47.0', 47.5', 47.9' 90°, J, T, No, No, PI, SR @ 47.2-47.3'																																																																																						
							48																																																																																														
							49																																																																																														
							50																																																																																														
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							53																																																																																														
							54																																																																																														
HQ	5	5.0	4.9	4.4	98	88	50.5								DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; parting w/stylolites; (Bass Islands Group).																																																																																						
							51								90°, J, T, No, No, PI, SR @ 50.5-50.6', 50.7-51.1' 0°, J, VN, UK, Pa, WA, R @ 50.7'																																																																																						
							52								DOLOMITE; argillaceous w/stylolites; (Bass Islands Group).																																																																																						
							53								0°, J, VN, UK, Pa, WA, R @ 51.4', 51.5'																																																																																						
							54								80°, J, T, No, No, PI, SR @ 53.1-53.2'																																																																																						
							55								DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; parting w/stylolites; (Bass Islands Group).																																																																																						
							56								BRECCIA; healed; light gray; coarse to fine grained; fresh; strong; hard; dolomite clasts & matrix; (Bass Islands Group).																																																																																						
							57								0°, J, VN, UK, Pa, WA, R @ 56.0', 56.1' 50°, J, T, No, No, PI, SR @ 56.25-56.35'																																																																																						
							58								DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).																																																																																						
							59								SHALE; very dark gray; fresh; weak; low hardness; (Bass Islands Group).																																																																																						
HQ	6	5.0	5.0	4.5	100	90	55.5								DOLOMITE; oolitic; light brownish gray; fresh; strong; hard; (Bass Islands Group).	Core box #3 starts @ 58.9'.																																																																																					
							60								0°, J, T, No, No, PI, SR @ 58.9'																																																																																						



**BLACK & VEATCH**

# BORING LOG

**BORING NO. RB-C5**

SHEET 5 OF 19

CLIENT						PROJECT NO.						
Detroit Edison						Fermi 3 COL Application						
PROJECT LOCATION						COORDINATES						
Monroe, MI						N 6192.8'						
SURFACE CONDITIONS						GROUND ELEVATION (DATUM)						
Level, gravel parking area						E 4525.7' 580.6 ft (NAVD 88)						
COORDINATE SYSTEM						DATE START						
Plant						06/14/07						
DATE FINISHED						06/28/07						
SAMPLING						LOGGED BY						
						Grainger/Bonnie TB						
CHECKED BY						APPROVED BY						
Dogbey/Bonnie TB						Meyer EM						
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	7	5.0	5.0	2.9	100	58	60				20°, J,T,No,No,PI,SR @ 60.5-60.7'	
			60.5				61				DOLOMITE; gray & black; mottled; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°,J,VN,UK,Pa,WA,R @ 61.5', 61.8'	
							62				85°,J,VN,No,No,PI,R @ 61.9-63.4' SHALE; black; (Bass Islands Group).	
							63				DOLOMITE; light brownish gray; strong; hard; w/stylolites & shale partings; (Bass Islands Group). 0°,J,VN,UK,Pa,WA,R @ 62.6', 62.9'	
							64				BRECCIA, healed; light gray; coarse to fine grained; fresh; strong; hard; argillaceous dolomite clasts & matrix; (Bass Islands Group). 0°,J,VN,UK,Pa,WA,R @ 63.5'	
							65				DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/stylolites & shale parting; convoluted bedding; (Bass Islands Group). 0°,J,N,Ci,Pa,WA,R @ 64.0' 20°,J,T,No,No,PI,SR @ 64.7-64.8' 0°,J,T,No,No,PI,SR @ 65.7', 66.1' highly fractured @ 66.5-67.0'	
HQ	8	5.0	4.9	1.9	98	38	66				DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/shale partings & stylolites; (Bass Islands Group). 10°,J,VN,UK,Pa,PI,SR @ 67.3' 0°,J,T,No,No,PI,SR @ 67.8', 68.1' highly fractured @ 68.5-70.0'	
							67					
							68					
							69					
							70					
							71				0°,J,T,No,No,PI,SR @ 71.0', 71.7' 10°,J,T,No,No,PI,SR @ 71.0'	
							72				0°,J,T,No,No,PI,SR @ 72.0'	
							73				60°,J,T,No,No,WA,R @ 72.5-73.0' 90°,J,T,No,No,PI,SR @ 72.8-73.0'	
HQ	9	5.0	5.0	2.8	100	56	74					
							75				0°,J,T,No,No,PI,SR @ 74.4', 74.7', 74.8' 90°,J,N,Ci,Fi,WA,SR @ 74.5-76.1'	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483											
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)									
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07		DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY <i>for</i> Grainger/Bonnie <sup>TB</sup>										CHECKED BY <i>for</i> Dogbey/Bonnie <sup>TB</sup>										APPROVED BY <i>for</i> Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																									
							75																								
			75.5				76		505																						
							77		504																						
							78		503		0°, J, VN, UK, Fi, PI, SR @ 76.8', 77.7'																				
							79		502		45°, J, T, No, No, PI, R @ 76.9-77.1'																				
HQ	10	5.0	4.8	3.5	96	70	80		501		10°, J, T, No, No, WA, R @ 79.3'																				
							81		500		BRECCIA; healed; dolomite matrix; gray; fresh; strong; hard; w/clasts of light gray; fresh; strong; hard dolomite; (Bass Islands Group).																				
			80.5				82		499		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/shale partings & stylolites; (Bass Islands Group).																				
							83		498		0°, J, T, No, No, PI, SR @ 82.2', 82.4'																				
HQ	11	5.0	5.0	3.2	100	64	84		497		10°, J, T, UK, Pa, SR @ 82.9'																				
							85		496		0°, J, T, UK, Pa, SR @ 83.7'																				
							86		495		SHALE; black; micritic; moderately strong; moderately hard; (Bass Islands Group).																				
			85.5				87		494		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group).																				
							88		493		0°, J, VN, UK, Pa, WA, R @ 85.6', 85.8'																				
							89		492		90°, J, T, No, No, WA, R @ 86.1-86.5'																				
							90		491		0°, J, VN, UK, Pa, WA, R @ 86.1', 86.5'																				
											anhydrite filled vug @ 87.2'																				
HQ	12	5.0	5.0	4.1	100	82					Core box #5 starts @ 86.1'.																				
											0°, J, VN, UK, Pa, WA, R @ 88.9', 89.5'																				

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 7 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6192.8' E 4525.7'		GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)	
SURFACE CONDITIONS Level, gravel parking area				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 06/28/07	
SAMPLING				LOGGED BY <i>Bo</i> Grainger/Bonnie		CHECKED BY <i>Bo</i> Dogbey/Bonnie		APPROVED BY <i>Em</i> Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	CORING		
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS		
90		490							
91		489			10°, J, VN, UK, Pa, PI, R @ 90.9'				
92		488			20°, J, N, CI, Pa, PI, R @ 91.5'				
93	HQ	487	13	5.0	4.5	4.0	90	80	
94		486			0°, J, T, No, No, PI, SR @ 94.2'				
95		485			60°, J, VN, UK, Pa, WA, R @ 94.6-95.0'				
96		484							
97		483			10°, J, T, No, No, PI, SR @ 97.3', 97.5'				
98	HQ	482	14	5.0	4.8	2.3	96	46	
99		481			0°, J, T, No, No, PI, SR @ 97.6', 97.7', 97.8', 97.9', 98.0'				
100		480			0°, J, T, No, No, PI, SR @ 99.3'				
101		479			DOLOMITE; grayish brown; micritic; fresh; strong; hard; massive; (Bass Islands Group).				
102		478			0°, J, T, No, No, PI, SR @ 99.9', 100.0', 100.2'				
103	HQ	477	15	5.0	5.0	3.5	100	70	
104		476			50°, J, T, No, No, PI, SR @ 99.9-100.0'				
105					90°, J, T, No, No, PI, SR @ 100.4-100.5'				
					0°, J, T, No, No, PI, SR @ 101.5'				
					30°, J, T, No, No, WA, SR @ 101.6-101.9'				
					0°, J, T, No, No, PI, SR @ 102.7', 102.9', 103.1'				
					90°, J, T, No, No, PI, SR @ 102.9-103.0', 104.0-104.1'				
					0°, J, T, No, No, PI, SR @ 104.1', 104.4', 105.2'				

Core box #6 starts @ 100.5'.

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 8 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)									
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY <i>3/2/08</i> Grainger/Bonnie TB										CHECKED BY <i>12/07</i> Dogbey/Bonnie TB										APPROVED BY <i>EM</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
HQ	16	5.0	4.8	1.8	96	36	105		475		60°, J, T, No, No, PI, SR @ 105.3-105.5'	Core box #7 starts @ 114.2'.																											
							105.5		475		90°, J, T, No, No, PI, SR @ 105.5-106.0'																												
							106		474		60°, J, T, No, No, PI, S @ 105.8-106.2'																												
							107		473																														
							108		472		40°, J, T, No, No, PI, SR @ 107.6-107.8'																												
							109		471		0°, J, N, CI, Pa, PI, SR @ 108.2'																												
							110		470		0°, J, T, No, No, PI, SR @ 109.2'																												
							111		469		90°, J, VN, anhydrite, Pa, WA, R @ 109.5-110.5'																												
							112		468		60°, J, T, No, No, PI, S @ 109.6-109.8'																												
HQ	17	5.0	5.0	4.0	100	80	113		467																														
							114		466		0°, J, T, No, No, WA, SR @ 114.5'																												
							115		465		90°, J, VN, UK, Pa, WA, SR @ 114.5-115.5'																												
							116		464		highly fractured @ 115.5-116.5'																												
							117		463		90°, J, VN, Ca, Pa, WA, SR @ 117.1-117.6'																												
HQ	18	5.0	3.6	0.7	72	14	118		462		DOLOMITE; dark gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).																												
							119		461		0°, J, T, No, No, PI, SR @ 118.1', 118.2'																												
							120				shale band (0.05' thick) @ 118.5'																												
											0°, J, T, No, No, PI, SR @ 118.7', 118.9'																												
											shale band (0.05' thick) @ 119.1'																												
											0°, J, T, No, No, PI, SR @ 119.5', 119.7'																												

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 9 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6192.8' E 4525.7'		GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)	
SURFACE CONDITIONS Level, gravel parking area				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 06/28/07	
SAMPLING				LOGGED BY Grainger/Bonnie <sup>TD</sup>		CHECKED BY Dogbey/Bonnie <sup>TB</sup>		APPROVED BY Meyer <sup>EM</sup>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD			
							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
							GRAPHIC LOG		CLASSIFICATION OF MATERIALS
									REMARKS

HQ	19	5.0	2.5	0.5	50	10	120		shale band (0.05' thick) @ 119.8'
			120.5				121		highly fractured @ 120.5-122.5'
							122		
							123		DOLOMITE; argillaceous; very dark brown; very fine grained; strong; hard; w/some anhydrite bedding & shale partings; (Salina Group - Unit F).
							124		0°, J, T, No, No, PI, SR @ 124.2', 124.7', 125.2'
							125		
			125.5				126		0°, J, VN, No, No, PI, SR @ 126.7', 126.8'
							127		0°, J, VN, No, No, PI, SR @ 127.4'
HQ	20	5.0	2.8	0.6	56	12	128		0°, J, VN, No, No, PI, SR @ 128.2', 128.4'
							129		DOLOMITE; argillaceous; light brownish gray; fresh; strong; hard; (Salina Group - Unit F).
							130		0°, J, VN, No, No, PI, SR @ 128.7', 128.9', 129.2', 129.5'
							131		90°, J, VN, No, No, PI, SR @ 129.2-129.5'
			130.5				132		LIMESTONE; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).
							133		90°, J, T, No, No, PI, SR @ 130.0-130.2'
							134		CLAYSTONE; bluish gray; weak; low hardness; w/interbedded dolomite; (Salina Group - Unit F).
HQ	21	5.0	2.2	0.0	44	0	135		DOLOMITE; bluish gray; micritic; moderately strong; hard; (Salina Group - Unit F).
									highly fractured @ 134.5-135.5'

Water level @ 20.5' prior to drilling on 06/26/07.

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 10 OF 19

CLIENT Detroit Edison			PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8' E 4525.7'		GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area			COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING			LOGGED BY <i>Bonnie</i> Grainger/Bonnie <sup>7B</sup>	CHECKED BY <i>Bonnie</i> Dogbey/Bonnie <sup>7B</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVER	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
			135.5				135		445			Core box #8 starts @ 135.5'.
							136		444			
							137		443			
HQ	22	5.0	1.7	0.5	34	10	138		442		CLAYSTONE; bluish gray; weak; low hardness; (Salina Group - Unit F).	
							139		441			
			140.5				140		440		LIMESTONE; dark greenish gray; micritic; strong; hard; (Salina Group - Unit F).	
HQ	23	2.5	1.5	0.0	60	0	141		439		DOLOMITE; bluish gray; micritic; strong hard; (Salina Group - Unit F).	
							142		438			
			143.0				143		437		CLAYSTONE; bluish gray; weak; low hardness; w/dolomite layers; (Salina Group - Unit F).	
HQ	24	2.5	1.0	0.0	40	0	144		436			
							145		435			grades greenish gray @ 147.5'
			145.5				146		434			
HQ	25	2.5	2.0	0.0	80	0	147		433			
							148		432			
HQ	26	2.5	2.5	0.0	100	0	149		431		dark gray @ 149.0-149.2'	
							150					

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)									
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY <i>BoB</i> Grainger/Bonnie <i>TB</i>										CHECKED BY <i>BoB</i> Dogbey/Bonnie <i>TB</i>										APPROVED BY <i>BoB</i> Meyer <i>BoB</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
HQ	27	5.0	3.0	0.0	60	0	150		430		dark gray @ 150.2-150.4'																												
			150.5				151		429																														
							152		428																														
							153		427																														
							154		426		dolomite; gray @ 154.0-154.3'																												
							155		425		dolomite band; gray @ 154.9-155.1'																												
			155.5				156		424																														
							157		423																														
HQ	28	5.0	3.5	0.0	70	0	158		422		dolomite band; dark bluish gray @ 158.5-158.7'																												
							159		421																														
							160		420																														
			160.5				161		419																														
							162		418																														
HQ	29	5.0	3.0	0.0	60	0	163		417		dolomite band; dark bluish gray @ 163.4-163.6'																												
							164		416																														
							165																																

**BLACK & VEATCH**

## BORING LOG

BORING NO. RB-C5

SHEET 12 OF 19

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6192.8' E 4525.7'		580.6 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Level, gravel parking area		Plant		06/14/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Bonnie		Meyer	
SAMPLING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		06/28/	



CLIENT Detroit Edison							PROJECT Fermi 3 COL Application							PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6192.8'					GROUND ELEVATION (DATUM) E 4525.7'				TOTAL DEPTH 270.5 (feet) 580.6 ft (NAVD 88)				
SURFACE CONDITIONS Level, gravel parking area							COORDINATE SYSTEM Plant				DATE START 06/14/07			DATE FINISHED 06/28/07			
SAMPLING							LOGGED BY Grainger/Bonnie TB				CHECKED BY Dogbey/Bonnie TB				APPROVED BY Meyer EM		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD											
HQ	35	5.0	3.0	1.3	60	26	180		400		90°, J, VN, No, No, WA, R @ 181.7-182.0' 0°, J, VN, No, No, PI, SR @ 182.2', 182.4'  grades light brownish gray @ 183.5'						
			180.5				181		399								
							182		398								
							183		397								
							184		396								
							185		395								
							186		394								
							187		393								
							188		392								
							189		391								
HQ	36	5.0	1.8	0.0	36	0	190		390		SHALE; fissile; gray; weathered; very weak; low hardness; w/beds of very pale brown, micritic, low hardness, argillaceous dolomite & greenish, micritic; limestone; (Salina Group - Unit F)					Water level @ 23.9' prior to drilling on 06/27/07.	
							191		389								
							192		388								
							193		387								
							194		386								
							195										
HQ	37	2.5	0.7	0.0	28	0	193		389		limestone band; greenish gray @ 191.2-191.4'						
							192		388		dolomite; bluish gray @ 192.8-193.1'						
							193		387								
							194		386								
HQ	38	2.5	1.0	0.0	40	0	195		386		dolomite; bluish gray @ 194.3-194.6'						



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C5

SHEET 14 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI			COORDINATES N 6192.8'		GROUND ELEVATION (DATUM) E 4525.7'		TOTAL DEPTH 580.6 ft (NAVD 88) 270.5 (feet)					
SURFACE CONDITIONS Level, gravel parking area					COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 06/28/07			
SAMPLING				LOGGED BY <i>Granger/Bonnie</i>		CHECKED BY <i>Dogbey/Bonnie</i>		APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							195					
			195.5						385			
HQ	39	2.5	1.3	0.0	52	0	196		384		LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 90°, J, VN, No, No, WA, R @ 197.0-197.3'	
							197		383		30°, J, VN, No, No, WA, R @ 197.5'	
			198.0				198		382			
HQ	40	2.5	1.0	0.0	40	0	199		381		DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; w/interbedded limestone; (Salina Group - Unit F). 10°, J, VN, No, No, PI, SR @ 199.15'	
			200.5				200		380			
HQ	41	2.5	1.7	0.8	68	32	201		379		LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 90°, J, VN, UK, Pa, R @ 200.2-200.4'	
			203.0				202		378		DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 10°, J, T, No, No, PI, SR @ 202.0'	
							203		377		40°, J, T, No, No, PI, SR @ 202.8'	
HQ	42	2.5	2.0	0.0	80	0	204		376		limestone band; greenish gray @ 202.8-203.0'	
			205.5				205		375		CLAYSTONE; gray; fresh; weak; low hardness; w/ limestone beds; (Salina Group - Unit F).	
							206		374			
							207		373		LIMESTONE; dark greenish gray; micritic; fresh; strong; moderately hard; 20% pitted; 5% vuggy; (Salina Group - Unit F).	
HQ	43	5.0	3.0	0.45	60	9	208		372		60°, J, VN, No, No, PI, R @ 207.3-207.5', 208.5-208.7'	
							209		371		grades greenish gray @ 208.0'	
							210				40°, J, VN, No, No, PI, R @ 208.1-208.3'	

Core box #11 starts @ 203.0'.

# BLACK & VEATCH

# BORING LOG

**BORING NO. RB-C5**

**SHEET 15 OF 19**

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6192.8'					E 4525.7'					580.6 ft (NAVD 88)		270.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Level, gravel parking area										Plant					06/14/07		06/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainder/Bonnie					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORING																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
								210													
			210.5							370											
								211		369											
								212		368			0°, J, VN, No, No, WA, R @ 212.1', 212.2'								
HQ	44	5.0	4.0	2.0	80	40		213		367			<u>DOLOMITE</u> ; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 10°, J, VN, UK, Pa, R @ 212.6'								
								214		366			0°, J, VN, No, No, WA, R @ 212.8', 213.0', 213.9'								
								215		365			60°, J, T, No, No, PI, SR @ 214.6'								
								216		364			60°, J, VN, Ca, Pa, PI, SR @ 215.0-215.5'								
			215.5					217		363			<u>LIMESTONE</u> ; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).								
								218		362			<u>DOLOMITE</u> ; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).								
HQ	45	5.0	4.8	2.8	96	56		219		361			<u>LIMESTONE</u> ; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).								
								220		360			60°, J, VN, No, No, PI, R @ 219.9'								
			220.5					221		359			<u>BRECCIA</u> ; healed; grayish brown; fine to coarse grained; (Salina Group - Unit F).								
								222		358			<u>DOLOMITE</u> ; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).								
								223		357			<u>CLAYSTONE</u> ; dark bluish gray; weathered; weak; low hardness; (Salina Group - Unit F).								
HQ	46	5.0	4.5	1.1	90	22		224		356			<u>DOLOMITE</u> ; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).								
								225		355			<u>LIMESTONE</u> ; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).								
								226		354											



4/29/2008 4:40 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 17 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483											
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)									
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07		DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> <sup>7B</sup>										CHECKED BY <i>Dogbey/Bonnie</i> <sup>7B</sup>										APPROVED BY <i>Meyer</i> <sup>EM</sup>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS										
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS										
HQ	51	5.0	4.8	3.4	96	68	240				90°, J, T, No, No, PI, SR @ 240.0-240.2'										Core box #13 starts @ 240.5'.										
							240.5		340		90°, J, T, No, No, PI, SR @ 240.8-241.0'																				
							241		339		0°, J, VN, No, No, WA, SR @ 240.8', 240.9', 241.0'																				
							242		338		0°, J, VN, UK, Pa, SR @ 242.0'																				
							243		337																						
							244		336		60°, J, T, No, No, PI, SR @ 243.7-244.3'																				
							245		335		0°, J, VN, No, No, WA, SR @ 244.1', 244.3'																				
							246		334		50°, J, T, UK, Pa, PI, R @ 244.4-244.7'																				
							247		333		clay band; white @ 245.6-245.7'																				
							248		332		10°, J, VN, No, No, PI, SR @ 246.4', 246.5'																				
							249		331		0°, J, VN, No, No, PI, SR @ 247.5', 248.0'																				
							250		330		10°, J, VN, No, No, PI, SR @ 247.6'																				
							251		329		45°, J, T, No, No, PI, R @ 249.0-249.1'																				
							252		328		10°, J, VN, No, No, PI, SR @ 250.0', 250.1'																				
							253		327																						
							254		326		10°, J, VN, UK, Pa, R @ 253.5'																				
							255				10°, J, VN, No, No, PI, SR @ 253.7'																				

~ 1.0' core loss @ 253.7-258.7'.

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6192.8'					GROUND ELEVATION (DATUM) E 4525.7'					580.6 ft (NAVD 88)					TOTAL DEPTH 270.5 (feet)	
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 06/28/07	
SAMPLING										LOGGED BY Grainger/Bonnie					CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
							255									Core box #14 starts @ 255.5'.					
			255.5						325												
							256														
									324												
							257														
									323												
HQ	54	5.0	4.7	4.0	94	80	258														
									322												
							259														
									321												
							260														
									320												
			260.5				261														
									319												
							262														
									318												
HQ	55	5.0	5.0	NR	100	NR	263														
									317												
							264														
									316												
							265														
									315												
			265.5				266														
									314												
							267														
									313												
HQ	56	5.0	5.0	4.7	100	94	268														
									312												
							269														
									311												
							270														

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C5

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																															
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/28/07																															
SAMPLING										LOGGED BY <i>Granger/Bonnie</i>										CHECKED BY <i>Dogbey/Bonnie</i>										APPROVED BY <i>Meyer</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		CLASSIFICATION OF MATERIALS																				REMARKS																			
															270							DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/anhydrite banding; (Salina Group - Unit E).																				Bottom of boring @ 270.5'. Water level @ 23.5' @ completion of drilling. Boring caved @ 158.4'. Cleared caving. Backfilled w/ bentonite chips to 37.5' below ground surface on 09/08/07. Continued w/ bentonite chips to 6' below ground surface, then gravel to surface.																			
															271							DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E).																																							
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CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6192.8'					E 4606.0'					580.8 ft (NAVD 88)		240.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					06/14/07		09/19/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Mass/Ohlmacher					Dogbey/Ohlmacher					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS			REMARKS						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
								0				Poorly graded COBBLES - About 90% subangular, hard cobbles w/max. size 12"; about 5% sand; about 5% fines; dark reddish gray; dry; weak reaction w/ HCl; homogeneous; (Fill).			Boring advanced w/vacuum excavation.						
								1		580											
								2		579											
S	1		2.0				2.0	3		578					Below 2.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.						
								4		577											
								5		576											
			5.0					6		575											
								7		574											
S	2						2.0	8		573											
								9		572											
								10		571											
			10.0					11		570											
								12		569											
S	3						3.7	13		568		ORGANIC Soil (OL); very dark gray; moist; organic decomposition odor									
								14		567		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; dark gray; firm; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).			Set nominal 6" temporary steel casing to 14.8'.						
			14.0					15		566											



**BLACK & VEATCH**

# BORING LOG

**BORING NO. RB-C6**

SHEET 2 OF 17

[illegible]

**BLACK & VEATCH**

# BORING LOG

BORING NO. RB-C6

SHEET 3 OF 17

CLIENT						PROJECT						SHEET NO.		
Detroit Edison						Fermi 3 COL Application						147483		
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH					
Monroe, MI			N 6192.8'			E 4606.0'			580.8 ft (NAVD 88)			240.0 (feet)		
SURFACE CONDITIONS						COORDINATE SYSTEM			DATE START			DATE FINISHED		
Gravel parking lot						Plant			06/14/07			09/19/07		
SAMPLING						LOGGED BY			CHECKED BY			APPROVED BY		
						Grainger/Mass/Ohlmacher			Dogbey/Ohlmacher			Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
S	7					4.2	30				strong; very hard; (Bass Islands Group).	Below 29.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. S-7 labeled S1.		
PQ	1	1.8	1.7	0.5	94	28	31		550					
							32		549					
							33		548					
							34		547		<u>DOLOMITE</u> ; argillaceous; dark grayish brown; very fine grained; very strong; hard; w/stylolites; (Bass Islands Group). highly fractured @ 34.0-34.7' 80°, J, No, No, PI, SR @ 34.7-35.0'	Set nominal 6" temporary steel casing to 33.4'. Water level @ 20.3' prior to drilling on 08/29/07.		
							35		546		0°, B, UK, FI, PI, SR @ 35.3', 36.5', 36.8'	Core box #1 starts @ 33.7'. Below 33.7' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.		
							36		545		80°, J, T, PI, SR @ 35.8-36.4'			
							37		544		0°, B, No, No, PI, SR @ 36.2'			
PQ	2	5.0	5.0	4.0	100	80	38		543		<u>DOLOMITE</u> ; olive gray; very fine grained (crystalline); fresh; very strong; hard; w/shale partings; (Bass Islands Group). 0°, B, UK, FI, PI, SR @ 37.0' 90°, J, Ca, Pa, PI, SR @ 37.2-37.5' 85°, J, Ca, Pa, PI, SR @ 37.6-38.3'			
							39		542		90°, J, Ca, Pa, WA, SR @ 38.7-39.3' argillaceous dolomite beds @ 38.8-39.3', 40.2-40.7'	No drilling fluid return @ 39.0'.		
							40		541		highly fractured @ 39.9-40.5'			
							41		540		<u>DOLOMITE</u> ; vuggy; light gray; very fine grained (crystalline); slightly weathered; very strong; hard; vugs 0.04-0.4"; some filled w/anhydrite; (Bass Islands Group). 0°, B, No, No, PI, SR @ 40.7'			
PQ	3	5.0	5.0	2.4	100	48	42		539					
							43		538		<u>DOLOMITE</u> ; argillaceous; mottled dark gray & very dark gray; micritic; fresh to slightly weathered; very strong; very hard; (Bass Islands Group). 30°, J, No, No, WA, SR @ 41.9-42.2' 30°, J, CI, FI, PI, SR @ 42.2-42.3' highly fractured @ 43.0-43.7', 44.5-44.7'	Core box #2 starts @ 42.8'.		
							44		537		40°, J, Ca, Pa, PI, SR @ 43.0-43.2' 90°, J, No, No, PI, SR @ 43.5-44.3' light gray dolomite band @ 43.8-43.9' 20°, J, No, No, St, SR @ 43.9-44.0'			
							45		536		0°, B, No, No, PI, SR @ 44.3-44.4'			



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## BORING LOG

BORING NO. RB-C6

SHEET 4 OF 17

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6192.8' E 4606.0'				GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)			
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant				DATE START 06/14/07			
				DATE FINISHED 09/19/07							
LOGGED BY Grainger/Mass/Ohlmacher				CHECKED BY Dogbey/Ohlmacher				APPROVED BY Meyer			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
								45					
								46					
								47					
								48					
								49					
								50					
								51					
								52					
								53					
								54					
								55					
								56					
								57					
								58					
								59					
								60					

DOLOMITE; dark grayish brown; pitted; very fine grained (crystalline); fresh; strong; very hard; w/shale partings & fossils (mollusks); (Bass Islands Group). 0°, B, No, No, PI, SR @ 45.2' dark gray @ 45.5-46.8' shale partings - 0°, B, PI, SR @ 46.0', 46.1' 80°, J, Ca, Pa, PI, SR @ 46.1-46.5' 80°, J, No, No, PI, SR @ 46.4-46.8' shale parting - 0°, B, WA, SR @ 46.8' w/very closely spaced stylolites @ 46.8-46.9' w/vugs, most elongated; up to a max. 1.2" diameter; some filled w/large (up to 0.4") anhydrite crystals @ 47.5-48.2' 0°, B, No, No, PI, SR @ 47.7', 48.5', 49.8' 20°, J, CI, FI, PI, SR @ 49.3-49.4'

DOLOMITE; light gray; micritic; fresh; very strong; very hard; w/zones of very closely spaced stylolites; moderately wide spaced stylolites throughout; (Bass Islands Group).

0°, B, No, No, WA, SR @ 52.3' 50°, J, No, No, PI, SR @ 53.2-53.5'

DOLOMITE & DOLOMITE; argillaceous; mottled dark grayish brown & grayish brown; pitted; micritic; fresh to slightly weathered; very strong; very hard; (Bass Islands Group). 90°, J, T, PI @ 54.4-55.0', 54.4-54.9' 0°, B, UK, FI, PI, SR @ 54.5'

DOLOMITE; argillaceous; gray & dark gray; micritic; fresh; very strong; very hard; banded; (Bass Islands Group). 90°, J, No, No, PI, SR @ 55.2-55.7'

DOLOMITE & SHALE dolomitic; mottled greenish gray & black; micritic; fresh; very strong; hard; intermingled w/silt; about 100% low plasticity, low toughness, slow dilatancy fines; gray; soft; moist; no hydrocarbon odor; strong reaction w/HCl; homogeneous; (Bass Islands Group). 90°, J, T, PI, SR @ 55.8-57.8'

DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; strong; hard; oolites 0.02-0.04" diameter; (Bass Islands Group). 0°, J, No, No, PI, SR @ 56.5', 57.2', 59.6' 70°, J, T, PI, SR @ 57.0-57.6'

Core box @3 starts @ 51.4' Drill chatter @ 55.0-55.5'



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C6

SHEET 5 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																				
PROJECT LOCATION Monroe, MI					COORDINATES N 6192.8'					GROUND ELEVATION (DATUM) E 4606.0'					580.8 ft (NAVD 88)					TOTAL DEPTH 240.0 (feet)																																																																																																																																																																				
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 09/19/07																																																																																																																																																																				
LOGGED BY Grainger/Mass/Ohlmacher										CHECKED BY Dogbey/Ohlmacher					APPROVED BY Meyer																																																																																																																																																																									
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Core barrel blocked @ 68.0'.	65		516		80°, J, No, No, PI, SR @ 61.4-62.7'	66	PQ	515		brecciated; healed; w/wavy convoluted shaley partings @ 61.6-62.9'	67		514		DOLOMITE; light gray & gray; micritic; fresh; very strong; very hard; banded; laminated; w/shale partings; (Bass Islands Group). shale partings - 0°, B, PI, SR @ 64.0', 64.4', 64.7', 65.2'	68		513		80°, J, No, No, PI, SR @ 64.2-64.7'	69	PQ	512		clay band; about 100% medium plasticity, low toughness, slow dilatancy fines; white; firm; moist; no odor; strong reaction w/HCl; homogeneous @ 65.7-65.8'	70		511		30°, J, CI, FI, PI, SR @ 65.8-65.9'	71		510		0°, B, UK, FI, PI, SR @ 66.1'	72	PQ	509		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, CI, PA, WA, SR @ 66.5-67.3'	73		508		0°, B, UK, FI, PI, SR @ 66.5', 66.8'	74		507		highly fractured @ 67.3-67.5'		75		506		70°, J, No, No, PI, SR @ 67.5-67.7'					silt band; about 100% low plasticity, low toughness, rapid dilatancy fines; white; soft; moist; strong hydrocarbon odor; strong reaction w/HCl; homogeneous @ 67.7-67.8'					highly fractured @ 67.8-68.0'						90°, J, CI, FI, PI, SR @ 68.1-68.3' (2 parallel joints) pitted @ 68.3-68.6'					DOLOMITE; light gray (2 shades); pitted; very fine grained (crystalline); fresh; very strong; hard; banded; w/closely spaced stylolites; pits 0.004-0.08"; (Bass Islands Group). very closely spaced stylolites @ 68.6-69.2'					highly fractured @ 69.9-70.1'						0°, B, No, No, PI, SR @ 71.6'					very closely spaced stylolites @ 74.7-74.8'
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71		510		0°, B, UK, FI, PI, SR @ 66.1'																																																																																																																																																																																				
72	PQ	509		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, CI, PA, WA, SR @ 66.5-67.3'																																																																																																																																																																																				
73		508		0°, B, UK, FI, PI, SR @ 66.5', 66.8'																																																																																																																																																																																				
74		507		highly fractured @ 67.3-67.5'																																																																																																																																																																																				
75		506		70°, J, No, No, PI, SR @ 67.5-67.7'																																																																																																																																																																																				
				silt band; about 100% low plasticity, low toughness, rapid dilatancy fines; white; soft; moist; strong hydrocarbon odor; strong reaction w/HCl; homogeneous @ 67.7-67.8'																																																																																																																																																																																				
				highly fractured @ 67.8-68.0'																																																																																																																																																																																				
				90°, J, CI, FI, PI, SR @ 68.1-68.3' (2 parallel joints) pitted @ 68.3-68.6'																																																																																																																																																																																				
				DOLOMITE; light gray (2 shades); pitted; very fine grained (crystalline); fresh; very strong; hard; banded; w/closely spaced stylolites; pits 0.004-0.08"; (Bass Islands Group). very closely spaced stylolites @ 68.6-69.2'																																																																																																																																																																																				
				highly fractured @ 69.9-70.1'																																																																																																																																																																																				
				0°, B, No, No, PI, SR @ 71.6'																																																																																																																																																																																				
				very closely spaced stylolites @ 74.7-74.8'																																																																																																																																																																																				

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C6

SHEET 6 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																																																																									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 09/19/07																																																																																									
SAMPLING										LOGGED BY Grainger/Mass/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																		
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																
																				75																														10° B, No, No, WA, SR @ 75.0'																																																																					
																				76										505																														shale partings @ 75.2-75.3'										Core box #6 starts @ 75.5'.																																																	
PQ										11										3.0										3.0										1.9										100										63										77										504																				very closely spaced stylolites @ 76.0-76.3'																			
																				78										503																														0° J, Cl, Pa, Pl, SR @ 77.1'										Water level @ 20.35' prior to drilling on 08/30/07.																																																	
																				79										502																														70° J, Cl, Fi, Pl, SR @ 77.3-77.6'																																																											
PQ										12										2.0										2.0										0.4										100										20										80										501																				silt band; about 100% low plasticity, low toughness, slow dilatancy fines; gray; firm; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 77.9-78.0'										Core barrel jammed @ 78.5'.									
																				81										500																														grades light olive gray @ 78.4'																																																											
PQ										13										2.5										2.5										1.3										100										52										82										499																				shale parting - 0° B, Fi, Pl, SR @ 78.8'																			
																				83										498																														30° J, No, No, Pl, SR @ 78.9-79.2'																																																											
																				84										497																														DOLOMITE; light gray & gray; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group).																																																											
PQ										14										2.5										2.5										1.5										100										60										85										496																				20° J, No, No, Pl, SR @ 79.2', 79.3'																			
																				86										495																														0° B, UK, Fi, Pl, SR @ 79.8', 80.5'																																																											
																				87										494																														90° J, No, No, St, R @ 79.8-80.7'																																																											
																				88										493																														highly fractured @ 80.5-80.8'																																																											
																				89										492																														shale parting - 20° B, Fi, Pl, SR @ 81.0'																																																											
PQ										15										5.0										5.0										0.7										100										14										90										491																				DOLOMITE; brecciated (healed); light brownish gray & grayish brown; pitted; micritic; slightly weathered; very strong; very hard; (Bass Islands Group).										Core barrel blocked @ 83.0'. Core box #7 starts @ 83.2'.									
																				91																																								shale parting - 0° B, WA, SR @ 81.3, 81.4'																																																											
																				92																																								70° J, No, No, Pl, R @ 81.7-82.4'																																																											
																				93																																								SHALE; very dark gray & black; laminated; slightly weathered; strong; hard; (Bass Islands Group).																																																											
																				94																																								highly fractured @ 82.3-82.5'																																																											
																				95																																								thin dolomite bed; argillaceous; gray; micritic; fresh; very strong; very hard @ 82.9-83.3'																																																											
																				96																																								30° J, No, No, Pl, SR @ 83.1-83.4'																																																											
																				97																																								DOLOMITE; light gray & grayish brown; very fine grained (crystalline); slightly weathered; strong; hard; (Bass Islands Group).																																																											
																				98																																								highly fractured @ 83.3-83.4'																																																											
																				99																																								0° B, No, No, Pl, SR @ 84.1'																																																											
																				100																																								30° J, No, No, Pl, SR @ 84.6-84.8', 85.1-85.3'																																																											
																				101																																								DOLOMITE; argillaceous; light brownish gray; very fine grained (crystalline); slightly weathered; very strong; hard; (Bass Islands Group).																																																											
																				102																																								40° J, Cl, Fi, Pl, SR @ 85.5-85.6'																																																											
																				103																																								110° J, Cl, Fi, Pl, SR @ 85.5-85.6'																																																											
																				104																																								60° J, No, No, Pl, SR @ 86.0-86.4'																																																											
																				105																																								shale parting - 10° B, Pl, SR @ 86.9'																																																											
																				106																																								70° J, anhydrite, Pa, Pl, SR @ 87.0-87.4'																																																											
																				107																																								shale parting - 10° B, Pl, SR @ 87.8'																																																											
																				108																																								90° J, anhydrite, Pa, Pl, SR @ 87.8-89.0', 89.5-89.9'																																																											
																				109																																								60° J, No, No, Pl, SR @ 88.9-89.3', 89.2-89.5', 89.8-																																																											

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C6

SHEET 7 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																																											
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 09/19/07																																																											
SAMPLING										LOGGED BY Grainger/Mass/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																																											
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																					
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																			
PQ 16 5.0 5.0 1.9 100 38										90																																																																															
										90.5																																																																															
																				490																																																																					
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																				485																																																																					
PQ 17 5.0 4.6 2.7 92 54										95.5																																																																															
																				484																																																																					
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																				482																																																																					
																				481																																																																					
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																				479																																																																					
PQ 18 5.0 5.0 3.2 100 64										100.5																																																																															
																				478																																																																					
																				477																																																																					
																				476																																																																					

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C6

SHEET 8 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483													
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)		TOTAL DEPTH 240.0 (feet)											
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07		DATE FINISHED 09/19/07											
SAMPLING										LOGGED BY Grainger/Mass/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer			
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
														105								pyrite & argillaceous fracture filling @ 105.2-105.3'											
														105.5																			
														106								0°,B,N,UK,Su,PI,SR @ 106.0',106.6',106.9'											
														107								85-90°,J,T,Ca,Pa,Ir,VR @ 106.6-108.9'											
														108								DOLOMITE; argillaceous; grayish brown; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°,B,N,UK,Su,PI,SR @ 107.1',107.6'											
PQ		19		5.0		4.5		2.8		90		56		108								fractured @ 108.2-108.8'											
														109								0°,B,MW,Ca,Fi,PI @ 108.9'											
														110								60°,J,T,No,No,Ir,R @ 109.0-109.6'											
														111																			
														112								60°,J,MW,solutioned @ 111.1-111.3'											
														113																			
														114																			
														115								SHALE; very dark gray; fissile; slightly weathered; weak; low hardness; (Salina Group - Unit F). 10°,B,T,UK,Su,Ir,R @ 113.8'											
														116																			
														117								DOLOMITE; argillaceous; banded gray (2 shades); micritic; slightly weathered; strong; hard; vuggy; (Salina Group - Unit F). 80-90°,J,N,No,No,Ir,R @ 114.7-118.0', 118.5-119.5', 119.7-120.5'											
PQ		21		2.5		2.5		0.4		100		16		117								fractured @ 116.7'											
														118																			
														119								0°,B,N,No,No,Ir,R @ 118.5', 119.3', 119.4', 119.7', 116.0'											
PQ		22		2.5		2.3		0.4		92		16		120																			

# BLACK & VEATCH

## BORING LOG

**BORING NO. RB-C6**

SHEET 9 OF 17

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		TOTAL DEPTH	
Monroe, MI		N 6192.8' E 4606.0'		240.0 (feet)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE FINISHED	
Gravel parking lot		Plant		09/19/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grainger/Mass/Ohlmacher		Meyer	
CORING		CHECKED BY			
		Dogbey/Ohlmacher			
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
120		460			Core box #11 starts @ 120.5'. Water level @ 21.3' prior to drilling on 08/14/07. NQ core barrel used @ 121.5-126.5' for pressuremeter testing. After testing interval reamed with PQ core barrel.
121	PQ	459		DOLOMITE; argillaceous; dark greenish gray; micritic; fresh; very strong; banded; (Salina Group - Unit F). highly fractured @ 121.5-125.0'	
122		458		anhydrite veins, beds & bands @ 123.0-123.8'	
123	NQ	457			
124		456			
125		455		DOLOMITE; light gray; pitted; fine grained; slightly weathered; strong; hard; parting; some oolites (5-15%); (Salina Group - Unit F). 0°, V, MW, Ca, Fi, WA, SR @ 125.3'	
126		454		0°, B, T, No, No, Pl, S @ 126.3', 126.8' grades w/no pits @ 126.3'	
127		453		DOLOMITE; argillaceous; bluish gray; micritic; fresh; very strong; hard; banded; (Salina Group - Unit F).	127.0-127.8' claystone wrapped in plastic
128	PQ	452		CLAYSTONE; bluish gray; fresh; extremely weak; soft; massive; (Salina Group - Unit F).	
129		451		SHALE; calcareous; banded grayish brown to bluish gray; fissile; fresh; weak; low hardness; (Salina Group - Unit F).	
130		450		CLAYSTONE; bluish gray; fresh; extremely weak; low hardness; massive; (Salina Group - Unit F).	
131		449		SHALE; bluish gray; fissile; fresh; weak; low hardness; (Salina Group - Unit F).	
132		448		CLAYSTONE; calcareous; bluish gray; fresh; strong; moderately hard; massive; (Salina Group - Unit F). 0°, J, T, No, No, WA, S @ 131.6', 131.8', 132.4'	Core box #12 starts @ 131.9'.
133	PQ	447		SHALE; calcareous; bluish gray; fissile; fresh; weak; low hardness; banded; (Salina Group - Unit F). highly fractured @ 133.3-134.4'	
134		446			Discrete sample 12A taken from PQ26 @ 134.7-135.5'.



CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6192.8' E 4606.0'		580.8 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot		Plant		06/14/07	
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
APPROVED BY					
Meyer					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
135		445		SHALE; w/siltstone interbeds; bluish gray; fresh; very weak; low hardness; banded; (Salina Group - Unit G).	
136	PQ	444			
137		443		limestone; brown @ 137.3-137.5'	
138		442		DOLOMITE; argillaceous; greenish gray to dark bluish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F). highly fractured @ 138.5-140.5'	
139	NQ	441		SHALE; calcareous; bluish gray; fissile; fresh; strong; moderately hard; (Salina Group - Unit F).	
140		440			
141		439		claystone band interbedded w/shale @ 142.0'	
142	PQ	438		dolomite band; highly fractured @ 143.1-143.2', 143.5-143.7'	
143		437			
144		436			
145		435			
146		434			
147		433		thin limestone bed; greenish gray; vuggy; highly fractured @ 147.8-148.1'	
148	PQ	432		dolomite band; highly fractured @ 148.5-148.7'	
149		431		highly fractured @ 149.0-149.2'	
150					



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C6

SHEET 11 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 09/19/07																																																																															
SAMPLING										LOGGED BY Grainger/Mass/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																																																															
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																				150.5																																																																																									
PQ										31										5.0										3.0										1.0										60										20																																																	
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PQ										32										2.5										2.5										1.9										100										76																																																	
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NQ										33										5.5										1.8										0.0										33										0																																																	
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PQ										34										2.0										0.4										0.4										20										20																																																	
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C6

SHEET 12 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 09/19/07																																																																															
SAMPLING										LOGGED BY GEO for TB for Grainger/Mass/Ohlmacher										CHECKED BY GEO for TB for Dogbey/Ohlmacher										APPROVED BY Meyer																																																																															
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C6

SHEET 13 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)		TOTAL DEPTH 240.0 (feet)																																																																																																																																																											
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Interval reamed w/PQ core barrel after test.</td> </tr> <tr> <td>181</td> <td></td> <td>399</td> <td></td> <td>BRECCIA; indurated calcite matrix &amp; clay matrix; brown limestone clasts; dark bluish gray; very coarse grained (&gt; 1") to very fine grained; fresh; strong; hard; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>182</td> <td></td> <td>398</td> <td></td> <td></td> <td></td> </tr> <tr> <td>183</td> <td></td> <td>397</td> <td></td> <td>grades clasts; dark brown; fresh; 15% vugs @ 184.0'.</td> <td></td> </tr> <tr> <td>184</td> <td></td> <td>396</td> <td></td> <td>grades shale clasts; gray; white calcite matrix; limestone clasts &amp; clay matrix grade out @ 185.5'</td> <td></td> </tr> <tr> <td>185</td> <td></td> <td>395</td> <td></td> <td>CLAYSTONE; dark bluish gray to light greenish gray; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>186</td> <td></td> <td>394</td> <td></td> <td>0°, J, T, No, No, Pl, S @ 186.6', 189.3' highly fractured @ 187.1-187.5'</td> <td>Core box #16 starts @ 187.0'.</td> </tr> <tr> <td>187</td> <td></td> <td>393</td> <td></td> <td>SHALE; greenish gray; fresh; moderately strong; low hardness; banded; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>188</td> <td></td> <td>392</td> <td></td> <td>BRECCIA; poorly indurated to indurated calcite matrix; shale &amp; limestone clasts; greenish gray &amp; white; very coarse grained to micritic; fresh; moderately strong; low hardness; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>189</td> <td></td> <td>391</td> <td></td> <td>0°, J, VN, No, No, Pl, SR @ 188.8', 189.1' highly fractured @ 189.1-189.3'</td> <td></td> </tr> <tr> <td>190</td> <td></td> <td>390</td> <td></td> <td>LIMESTONE; brown; micritic; fresh; top of limestone moderately weathered; strong; hard; 10% vugs; (Salina Group - Unit F).</td> <td>NQ core barrel used @ 191.0-197.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.</td> </tr> <tr> <td>191</td> <td></td> <td>389</td> <td></td> <td>0°, J, VN, No, No, Pl, SR @ 189.9', 190.1'</td> <td></td> </tr> <tr> <td>192</td> <td></td> <td>388</td> <td></td> <td></td> <td></td> </tr> <tr> <td>193</td> <td></td> <td>387</td> <td></td> <td></td> <td>Core barrel blocked</td> </tr> <tr> <td>194</td> <td></td> <td>386</td> <td></td> <td></td> <td></td> </tr> <tr> <td>195</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	180		400		CLAYSTONE & BRECCIA; dark bluish gray; (Salina Group - Unit F).	NQ core barrel used @ 180.0-185.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.	181		399		BRECCIA; indurated calcite matrix & clay matrix; brown limestone clasts; dark bluish gray; very coarse grained (> 1") to very fine grained; fresh; strong; hard; (Salina Group - Unit F).		182		398				183		397		grades clasts; dark brown; fresh; 15% vugs @ 184.0'.		184		396		grades shale clasts; gray; white calcite matrix; limestone clasts & clay matrix grade out @ 185.5'		185		395		CLAYSTONE; dark bluish gray to light greenish gray; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F).		186		394		0°, J, T, No, No, Pl, S @ 186.6', 189.3' highly fractured @ 187.1-187.5'	Core box #16 starts @ 187.0'.	187		393		SHALE; greenish gray; fresh; moderately strong; low hardness; banded; (Salina Group - Unit F).		188		392		BRECCIA; poorly indurated to indurated calcite matrix; shale & limestone clasts; greenish gray & white; very coarse grained to micritic; fresh; moderately strong; low hardness; (Salina Group - Unit F).		189		391		0°, J, VN, No, No, Pl, SR @ 188.8', 189.1' highly fractured @ 189.1-189.3'		190		390		LIMESTONE; brown; micritic; fresh; top of limestone moderately weathered; strong; hard; 10% vugs; (Salina Group - Unit F).	NQ core barrel used @ 191.0-197.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.	191		389		0°, J, VN, No, No, Pl, SR @ 189.9', 190.1'		192		388				193		387			Core barrel blocked	194		386				195					
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C6

SHEET 14 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																										
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 09/19/07																																
SAMPLING										LOGGED BY GTO for Grainger/Mass/Ohlmacher										CHECKED BY GCO Dogbey/Ohlmacher										APPROVED BY Meyer																																
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																				
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																		
														195																																																
NQ		43	1.0	0.4	0.0	40	0							196																																																
				196.0																																																										
PQ		44	1.0	0.8	0.4	80	40							197																																																
				197.0																																																										
				198.0										198																																																
														199																																																
NQ		45	5.0	0.9	0.0	18	0							200																																																
														201																																																
														202																																																
														203																																																
PQ		46	1.0	0.7	0.7	70	70																																																							
				203.0																																																										
														204																																																
				204.0																																																										
														205																																																
														206																																																
NQ		47	5.0	1.4	0.0	28	0																																																							
														207																																																
														208																																																
														209																																																
PQ		48	1.0	1.0	0.0	100	0																																																							
				209.0																																																										
														210																																																

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DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).

Core box #17 starts @ 209.0'.

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BORING NO. RB-C6

SHEET 15 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)		TOTAL DEPTH 240.0 (feet)	
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07		DATE FINISHED 09/19/07	
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>for TB for</i> Grainger/Mass/Ohlmacher										CHECKED BY <i>CCO</i> Dogbey/Ohlmacher		APPROVED BY <i>CCO</i> Meyer	
CORING										CLASSIFICATION OF MATERIALS										REMARKS			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG													
NQ	49	5.0	2.1	0.0	42	0	210		370		0°, J, VN, Ca, Pa, PI, S @ 209.3-209.7' highly fractured @ 209.3-209.5' 55°, J, VN, Ca, Pa, PI, S @ 209.6-210.0' 80°, J, VN, Ca, Pa, PI, S @ 209.8-210.0' -----211.0 LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; (Salina Group - Unit F). -----212.2 DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, VN, Ca, Pa, PI, S @ 212.3-213.0' -----213.5 LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; fossils; oolites; (Salina Group - Unit F). 90°, J, VN, Ca, Pa, PI, S @ 213.5-213.7'										NQ core barrel used @ 210.0- 215.0' for pressuremeter test. Interval reamed w/PQ core barrel after test. During reaming, drill locked in boring & freed @ 210.5'. Plugged w/clay/ gravel from reamed interval.		
PQ	50	5.5	4.9	2.8	89	51	215		365		highly fractured @ 215.1-215.3' highly fractured @ 215.8-215.9' 0°, J, N, No, No, PI, R @ 216.3' grades interbedded limestone & pale brown dolomite @ 216.3' 1.5" chert nodule @ 216.4' 0°, B, N, No, No, PI, SR @ 216.5' highly fractured @ 216.5-216.9' 90°, J, N, Ca, Pa, WA, SR @ 217.0-217.3' highly fractured @ 217.3-217.4' -----217.4 DOLOMITE; argillaceous; pale brown; micritic; fresh; strong; hard; few fossils (ostracodes); (Salina Group - Unit F). 90°, J, N, Ca, Pa, WA, SR @ 217.4-218.2', 218.2-218.9' highly fractured @ 218.2-218.5' -----219.1 SHALE; bluish gray to dark bluish gray; fresh; moderately strong to very weak; friable; (Salina Group - Unit F). -----220.7 LIMESTONE; dark bluish gray; micritic; fresh; strong; moderately hard; banded; w/shale bands; (Salina Group - Unit F). -----221.7 CLAYSTONE; dark bluish gray; fresh; weak; low hardness; interbedded w/dolomite & limestone; (Salina Group - Unit F).										Water level @ 23.41' prior to drilling on 09/18/07.		
PQ	51	4.5	1.3	0.0	29	0	220.5		360		Core box #18 starts @ 220.5'.												
							221		359														
							222		358														
							223		357														
							224		356														
							225		355														

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C6

SHEET 16 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 09/19/07																															
SAMPLING										LOGGED BY Grainger/Mass/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
NQ		52		4.0		4.0		0.0		100		0		225				355				dolomite & limestone interbeds grade out @ 225.0'																				NQ core barrel used @ 225.0-229.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.																			
														226				354				dolomite parting @ 227.5'																																							
														227				353				silty sandy clay @ 227.8-228.2'																																							
														228				352																																											
PQ		53		1.5		1.5		0.0		100		0		229				351																																											
														230				350				SANDSTONE; dark grayish brown; fresh; strong; moderately hard; calcite cement; (Salina Group - Unit F).																																							
														231				349				CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).																																							
														232				348				SAND, SILT & CLAY; (Salina Group - Unit F).																																							
NQ		54		5.0		2.3		0.0		46		0		233				347				CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F). thin dolomite bed @ 232.5-232.8'																																							
														234				346																																											
														235				345																																											
PQ		55		1.0		0.8		0.0		80		0		236				344																																											
														237				343				LIMESTONE; bluish gray & brown; micritic; fresh; strong; hard; w/white calcite filled vugs; (Salina Group - Unit F).																																							
														238				342																																											
NQ		56		3.5		1.8		0.0		51		0		239				341				DOLOMITE; grayish brown; micritic; fresh; strong; hard; fossils (ostracodes); (Salina Group - Unit E).																																							
														240																																															

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Water level @ 24.81' prior to start of drilling on 09/19/07. Core box #19 starts @ 235.5'.

Diamonds stripped from NQ bit @ 240.0'.

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BORING NO. RB-C6

SHEET 17 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																								
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																														
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 09/19/07																																														
SAMPLING										LOGGED BY GCO TB for Grainger/Mass/Ohlmacher										CHECKED BY GCO Dogbey/Ohlmacher										APPROVED BY EM Meyer																																														
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C7

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6117.0'										GROUND ELEVATION (DATUM) E 4450.0' 580.5 ft (NAVD 88)										TOTAL DEPTH 272.0 (feet)																																																																																	
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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C7

SHEET 2 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6117.0' E 4450.0'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)					
SURFACE CONDITIONS Level, gravel parking area				COORDINATE SYSTEM Plant				DATE START 06/14/07					
								DATE FINISHED 06/26/07					
SAMPLING				LOGGED BY TB for Grainger/Bonnie/Mass				CHECKED BY TB for Dogbey/Bonnie					
								APPROVED BY TB for Meyer					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
CA	2	2	2	4	6	1.7		15		565		dilatancy, high dry strength fines; about 7% fine, rounded, hard sand; gray & brown, mottled; firm; moist; no reaction w/HCl; homogeneous; w/trace of peat @ 14.5'; (Lacustrine Deposit).	
								16		564			
								17		563			
								18		562		Lean CLAY with Sand (CL) - About 81% LL=30, PL=15 fines; brown; hard; moist; about 18% rounded, hard sand; about 1% gravel.	Change in drilling reaction @ 17.5'. TV = 2.0 TSF @ 21.5'
								19		561			
TW	3					1.8		20		560			
								21		559			
								22		558			
								23		557		Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subangular, hard sand; about 10% gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Change in drill reaction @ 23.0'.
								24		556			
SPT	4	13	20	28	48	1.3		25		555			
								26		554			
								27		553			
								28		552		grades w/cobbles	
								29		551			
								30				DOLOMITE; dark gray; micritic; slightly weathered;	Auger refusal @ 29.5'.

**BLACK & VEATCH**

## BORING LOG

BORING NO. RB-C7

SHEET 3 OF 19

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, MI				N 6117.0'      E 4450.0'				580.5 ft (NAVD 88)				272.0 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Level, gravel parking area						Plant				06/14/07		06/26/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						GCG for TB Grainger/Bonnie/Mass				E.M. for TB Dogbey/Bonnie		EM Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	1	2.5	1.5	0.0	60	0	30		550		very strong; very hard; fractured; (Bass Islands Group).	Below 29.5' continued w/4½" tricone bit using water as drilling fluid. Tricone bit refusal @ 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.5'. Set nominal 4½" temporary steel casing to 33.5'. Casing shoe bit failed @ 33.5'. Drilled w/tricone bit to remove metal shoe parts in hole @ 35.5-36.5'.	
			30.5				31		549				
							32		548				
HQ	2	1.5	1.0	0.8	67	53	33		547		90°, J,T,No,No,PI,R @ 33.5-34.3', 38.1-38.3'		
			33.0				34						
			34.5				35		546		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/argillaceous dolomite; (Bass Islands Group). 34.5-		
HQ	3	1.0	0.8	0.6	80	60	36		545				
			35.5				37		544				
			36.5				38		543		0°, J,T,CI,Pa,PI,SR @ 37.5' 70°, J,T,No,No,PI,SR @ 37.5-38.0'		
HQ	4	2.5	2.5	1.7	100	68	39		542				
							40						
			39.0				41		541		90°, J,T,No,No,WA,R @ 38.7-39.0' highly fractured @ 39.0-41.1'		
							42		540				
							43		539				
HQ	5	5.0	4.3	0.5	86	10	44		538		DOLOMITE; light gray; micritic; fresh; strong; hard; mottled; (Bass Islands Group). 41.5-		
							45		537		60°, J,T,No,No,PI,SR @ 42.5-42.7' 0°, J,T,No,No,WA,SR @ 42.7', 41.1' 30°, J,T,No,No,PI,SR @ 43.0-43.3' highly fractured @ 43.5-44.0'		
			44.0				46		536				
							47		535		BRECCIA; cemented; brown; medium to coarse 44.5-		



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C7

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																															
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CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6117.0'					E 4450.0'					580.5 ft (NAVD 88)		272.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Level, gravel parking area										Plant					06/14/07		06/26/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
G.D. for TB Grainger/Bonnie/Mass										S.M. for TB Dogbey/Bonnie					E.M. Meyer						
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	9	5.0	4.9	4.2	98	84		60		520		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°,J,T,No,No,WA,R @ 59.7',60.1',60.7',61.1' black shale band @ 59.9-60.0', 60.9-60.95'				Core box #3 starts @ 61.5'.					
							61		519	DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; thin bedded; w/argillaceous bands & stylolites; (Bass Islands Group). 90°,J,T,No,No,WA,R @ 62.2-63.5'											
							62		518												
							63		517												
			64.0				64		516	0°,J,T,No,No,WA,R @ 63.6' fractured zone 90°,J,R @ 64.0-65.2'											
							65		515	bedding changes to 25° @ 65.3-67.5' 40°,J,VN,No,No,PI,R @ 65.5'											
HQ	10	5.0	4.6	1.6	92	32		66		514											
							67		513	80°,J,T,No,No,St,VR @ 67.5-69.0'											
							68		512												
			69.0				69		511	80°,J,T,No,No,PI,R @ 69.3-70.0', 71.3-72.6'											
							70		510	B,T,No,No,PI @ 70.2', 70.5' 70°,J,T,No,No,PI,R											
HQ	11	5.0	4.6	3.7	92	74		71		509											
							72		508												
							73		507												
			74.0				74		506												
							75														

CLIENT							PROJECT							PROJECT NO.	
Detroit Edison							Fermi 3 COL Application							147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6117.0' E 4450.0'				580.5 ft (NAVD 88)				272.0 (feet)			
SURFACE CONDITIONS							COORDINATE SYSTEM			DATE START		DATE FINISHED			
Level, gravel parking area							Plant			06/14/07		06/26/07			
SAMPLING							LOGGED BY			CHECKED BY			APPROVED BY		
							Grainder/Bonnie/Mass			Dogbey/Bonnie			Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
CORING															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
HQ	12	5.0	5.0	2.4	100	48	75				BRECCIA; healed; (Bass Islands Group). B,MW,No,No,Ir (slightly weathered) @ 75.5', 78.5'	Partial drilling fluid return @ 75.0'. Core box #4 starts @ 75.5'.			
									505						
							76								
									504						
							77								
									503						
							78								
									502						
							79								
HQ	13	5.0	79.0								0°,B,T,UK,Sp,PI @ 79.4',79.7',80.0'; white clay in fracture @ 80.0' 80°,J,T,No,No,Ir,VR @ 80.2-81.9' 0°,B,T,UK,Sp,PI @ 81.0' 0°,B,T,UK,Sp,PI @ 81.8' 0°,B,T,UK,Sp,PI @ 82.3' 80°,J,T,No,No,Ir,VR @ 82.5' weathered, very dark gray shale band @ 82.7-82.9' 0°,B,T,UK,Sp,PI @ 83.1'	No drilling fluid return @ 78.5'.			
									501						
							80								
									500						
							81								
									499						
							82								
									498						
							83								
HQ	14	5.0	84.0								80°,J,T,No,No,Ir,VR @ 83.9' 0°,B,T,UK,Pa,PI @ 84.2' anhydrite filled veins @ 84.8-85.2', 87.5-88.3' 0°,B,T,UK,Pa,PI @ 85.1' 0°,B,MW,No,No @ 85.5'; slightly weathered 55°,J,T,UK,Sp,PI @ 87.3' 0°,B,T,UK,Pa,PI @ 87.5' 0°,B,T,UK,Pa,PI @ 88.3',88.5'	Core box #5			
									496						
							85								
									495						
							86								
									494						
							87								
									493						
							88								
			89.0								80°,J,T,No,No,PI,R @ 89.3-90.5'				
									491						
							90				DOLOMITE; crystalline; gray; micritic; very strong;				



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C7

SHEET 7 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6117.0' E 4450.0'					GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				
SURFACE CONDITIONS Level, gravel parking area					COORDINATE SYSTEM Plant					DATE START 06/14/07				
DATE FINISHED 06/26/07					LOGGED BY G. G. For TB Grainger/Bonnie/Mass					CHECKED BY S. M. TB Dogbey/Bonnie				
APPROVED BY E. M. Meyer														

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	15	5.0	5.0	4.1	100	82		90				hard; massive; (Bass Islands Group).	starts @ 89.8'
								91					
								91.4				breccia @ 91.4-91.7'	
								92				DOLOMITE; argillaceous; gray; very fine grained; fresh; strong; hard; (Bass Islands Group).	
								92.2				thin black shale seam @ 92.2'	
								93				80°, J, T, No, No, PI, R @ 92.5-93.0'	
								94				0°, B, T, No, No, PI, SR-R @ 94.0', 94.3'	
								95				0°, B, T, No, No, PI, SR-R @ 94.9'	
								96				0°, B, T, No, No, PI, SR-R @ 95.7', 96.0'	
								96.3				80°, J, T, No, No, PI, R @ 95.7-96.3'	
HQ	16	5.0	4.9	2.4	98	48		97				DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; hard; medium bedded w/stylolites; (Bass Islands Group).	
								98				wavy bedding @ 96.0-97.0'	
								99				70°, J, VN, UK, Sp, PI, R @ 97.0-97.3'	
								99.1				0°, B, T, No, No, PI, SR-R @ 97.5', 97.9'	
								100				90°, J, T, No, No, PI, R @ 98.5'	
								100.1				0°, B, T, No, No, PI, SR-R @ 98.5', 98.7'	
								101				0°, B, T, No, No, PI, SR-R @ 99.1', 99.5'	
								102				80°, J, T, No, No, PI, R @ 99.6-100.7'	
								103				0°, B, T, No, No, PI, SR-R @ 100.0', 100.1'	
								104				0°, B, T, No, No, PI, SR-R @ 101.2', 101.7'	
								105				0°, B, T, No, No, PI, SR-R 102.6', 102.9', 103.1'	
								106					Core box #6 starts @ 104.0'

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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C7

SHEET 8 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6117.0' E 4450.0' 580.5 ft (NAVD 88)					TOTAL DEPTH 272.0 (feet)				
SURFACE CONDITIONS Level, gravel parking area					COORDINATE SYSTEM Plant					DATE START 06/14/07				
										DATE FINISHED 06/26/07				
SAMPLING					LOGGED BY Grainger/TB Bonnie/Mass					CHECKED BY Dogbey/TB Bonnie				
										APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
	HQ	18	5.0	4.8	3.1	96	62	105	475		0-5°, B,N,UK,Sp,PI @ 104.9',105.5'			
								106	474		B,MW,R (slightly weathered) @ 106.5',106.7'			
								107	473		70°, J,N,No,No,PI,VR @ 106.8-107.5', 107.9-108.8'			
								108	472		B,N,UK,Sp,PI @ 107.2'			
								109	471		DOLOMITE; dark grayish brown; crystalline; micritic; fresh; very strong; very hard; massive; w/stylolites & pits; (Bass Islands Group). bedding broken & slightly weathered; clay present @ 108.8-109.2'			
								110	470		80°, J,T,No,No,PI,R @ 109.2-110.2'			
	HQ	19	5.0	5.0	3.5	100	70	111	469					
								112	468		DOLOMITE; dark gray; crystalline; micritic; fresh; very strong; very hard; thick bedded; (Bass Islands Group).			
								113	467		B,VN,UK,Su,PI @ 112.1', 112.8'			
								114	466		fractures in rock filled w/anhydrite @ 112.8-114.5'			
								115	465		B,T,No,No,PI @ 114.6',115.0'			
								116	464		DOLOMITE; argillaceous; gray; very fine grained; fresh; very strong; hard; thin bedded w/thin shale seams; (Salina Group - Unit F).			
	HQ	20	5.0	4.8	2.3	96	46	117	463		B,T,No,No,PI @ 115.3',115.6',115.8',116.4', soft clay seam @ 115.6'			
								118	462		B,T,No,No,PI @ 116.7'			
								119	461		80°, J,T,No,No,PI,R @ 117.0-117.2'			
								120			B,T,No,No,PI @ 117.2'			
											B,T,No,No,PI @ 117.7',118.0'			
											fractured; slightly weathered @ 119.5-122.0'	Core box #7 starts @ 119.0'.		

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## BORING LOG

BORING NO. RB-C7

SHEET 9 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6117.0' E 4450.0'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 272.0 (feet)									
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/26/07									
SAMPLING										LOGGED BY 800 for TB Grainger/Bonnie/Mass										CHECKED BY m for TB Dogbey/Bonnie										APPROVED BY em Meyer									
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	21	5.0	3.6	0.7	72	14								120																									
														121																									
														122																									
														123																									
														124																									
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C7

SHEET 10 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483																																																																																																																																																																												
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SAMPLING										LOGGED BY Grainger/TB for Bonnie/Mass					CHECKED BY Dogbey/TB Bonnie					APPROVED BY Meyer																																																																																																																																																																		
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## BORING LOG

BORING NO. RB-C7

SHEET 11 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI					COORDINATES N 6117.0'					GROUND ELEVATION (DATUM) E 4450.0' 580.5 ft (NAVD 88)					TOTAL DEPTH 272.0 (feet)				
SURFACE CONDITIONS Level, gravel parking area					COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 06/26/07				
SAMPLING					LOGGED BY Grainger/TB Bonnie/Mass					CHECKED BY Dogbey/TB Bonnie					APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS							
HQ	30	5.0	2.2	0.0	44	0	150		430			Water trying to block off @ 150.0-154.0'.							
							151		429		CLAY; soft; weathered	Hard and soft drilling @ 150.0-154.0'.							
							152		428		CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; medium bedded; w/bands of dolomite; crystalline; micritic; very strong; fresh; very hard; (Salina Group - Unit F).								
							153		427										
							154		426			Water level @ 23.1' prior to drilling on 06/21/07.							
HQ	31	2.5	1.0	0.0	40	0	155		425		CLAY; gray; very soft								
							156		424		CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; medium bedded; interbedded w/DOLOMITE; crystalline; micritic; very strong; fresh; very hard; (Salina Group - Unit F).								
							157		423			Hard and soft drilling @ 157.0-158.0'.							
HQ	32	2.5	2.4	1.0	96	40	158		422										
							159		421		CLAY; very soft	Soft drilling.							
HQ	33	2.5	0.8	0.0	32	0	160		420										
							161		419										
							162		418		CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; medium bedded; interbedded w/DOLOMITE; crystalline; micritic; very strong; fresh; very hard; (Salina Group - Unit F).								
HQ	34	2.5	0.7	0.0	28	0	163		417										
							164		416										
							165		415										

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C7

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6117.0' E 4450.0'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 272.0 (feet)																																																																					
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/26/07																																																																					
SAMPLING										LOGGED BY Grainger/TB Bonnie/Mass										CHECKED BY Fm for Dogbey/Bonnie										APPROVED BY Fm Meyer																																																																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS														
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																												
HQ										35										2.5										1.0										0.0										40										0										165										415										<p>90°, J, T, No, No, Pl, R @ 169.4'</p> <p>CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; w/partings of dolomite; fresh; (Salina Group - Unit F).</p> <p>BRECCIA; poorly indurated claystone matrix; dark gray; highly weathered; very weak; low hardness; w/ dolomite clasts; angular; dark grayish brown; micritic; slightly weathered; hard; (Salina Group - Unit F).</p>									
HQ										36										2.5										0.4										0.0										16										0										166										414																			
HQ										37										2.5										0.0										0.0										0										0										167										413																			
HQ										38										2.5										1.1										0.0										44										0										168										412																			
HQ										39										2.5										2.0										0.0										80										0										169										411																			
HQ										40										2.5										0.0										0.0										0										0										170										410																			
HQ										41										2.5										0.0										0.0										0										0										171										409																			
HQ										42										2.5										0.0										0.0										0										0										172										408																			
HQ										43										2.5										0.0										0.0										0										0										173										407																			
HQ										44										2.5										0.0										0.0										0										0										174										406																			
HQ										45										2.5										0.0										0.0										0										0										175										405																			
HQ										46										2.5										0.0										0.0										0										0										176										404																			
HQ										47										2.5										0.0										0.0										0										0										177										403																			
HQ										48										2.5										0.0										0.0										0										0										178										402																			
HQ										49										2.5										0.0										0.0										0										0										179										401																			
HQ										50										2.5										0.0										0.0										0										0										180										400																			

Core box #9 starts @ 177.0'.



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C7

SHEET 13 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																														
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0-5° B, CI, Pa, PI, SR @ 183.5'  
 80°, J, No, No, PI, SR @ 183.5, 183.6 intersected  
 perpendicularly by 75°, J, No, No, PI @ 183.6'  
 fractured @ 183.5-184.5

DOLOMITE; crystalline; micritic; slightly weathered;  
 very strong; very hard; (Salina Group - Unit F).  
 grades weak @ 185.9'

BRECCIA; poorly indurated claystone matrix; dark  
 gray; highly weathered; very weak; low hardness; w/  
 dolomite clasts; angular; dark grayish brown; micritic;  
 slightly weathered; hard; (Salina Group - Unit F).

LIMESTONE; gray; micritic; fresh; moderately hard;  
 (Salina Group - Unit F).

BRECCIA; poorly indurated claystone matrix; dark  
 gray; slightly weathered; very weak; low hardness; w/  
 limestone clasts; angular; gray; micritic; slightly  
 weathered; hard; (Salina Group - Unit F).  
 90°, J, T, CI, Pa, PI, SR @ 190.7-191.5'

LIMESTONE; 80° gray; micritic; fresh; hard;  
 interbedded w/DOLOMITE; light brownish gray; very  
 fine grained; fresh; strong; hard; (Salina Group - Unit  
 F).  
 stylolites @ 192.5-193.7'; very close @ 193.5-193.7'

vuggy limestone @ 194.5-195.1'

After run HQ-44:  
 Hole depth  
 187.5'.  
 Run HQ-45:  
 Reduced to 2.5'  
 to try to recover  
 run HQ-44.



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C7

SHEET 14 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6117.0' E 4450.0'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)					
SURFACE CONDITIONS Level, gravel parking area				COORDINATE SYSTEM Plant				DATE START 06/14/07					
								DATE FINISHED 06/26/07					
SAMPLING				LOGGED BY Grainger/TB				CHECKED BY Dogbey/TB					
								APPROVED BY Meyer					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	47	2.5	1.7	0.6	68	24		195		385			
								196		384		0°, J, No, No, PI, SR @ 196.0', 196.3', 196.8'	
								197		383		dolomite; gray; micritic; fresh; strong; moderately hard @ 197.2-197.7'	
HQ	48	2.5	2.0	1.3	80	52		198		382		90°, J, Ca, Pa, PI, SR @ 197.2-197.7'	
								199		381			
								200		380		BRECCIA; poorly indurated claystone matrix; dark gray; highly weathered; very weak; low hardness; w/ limestone clasts; angular; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
HQ	49	2.5	1.6	0.0	64	0		201		379			
								202		378		claystone; highly weathered; extremely weak; clay like @ 202.0-202.9'	Core box #10 starts @ 202.0'.
HQ	50	2.5	2.5	1.0	100	40		203		377			
								204		376		LIMESTONE; vuggy; gray; micritic; fresh; very strong; hard; (Salina Group - Unit F). 95°, J, No, No, PI, R @ 204.2-204.4'	
								205		375			Core loss @ 204.5-205.0'.
								206		374			
HQ	51	5.0	4.3	2.0	86	40		207		373		90°, J, Ca, Fi, WA, SR @ 207.0-209.0'	
								208		372			
								209		371		DOLOMITE; gray; micritic; fresh; very strong; hard; (Salina Group - Unit F). banded; light greenish gray @ 209.2-211.2'	Core loss @ 208.6-208.8'.
								210				70°, J, Ca, Pa, PI, SR @ 209.5-209.7'	

8/22/2008 10:20 AM DTE - Fermi 3 Geotech

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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HQ										52					5.0					4.8					2.8					96					56					210										40° J,Ca,Fi,PI,SR @ 209.8'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

3/22/2008 10:20 AM DTE - Fermi 3 Geotech





BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C7

SHEET 17 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI					COORDINATES N 6117.0' E 4450.0'					GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)					TOTAL DEPTH 272.0 (feet)				
SURFACE CONDITIONS Level, gravel parking area					COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 06/26/07				
SAMPLING					LOGGED BY Grainger/TB Bonnie/Mass					CHECKED BY Dogbey/TB Bonnie					APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD													
HQ	61	5.0	4.6	3.7	92	74		240				40°, J, No, No, PI, SR @ 241.1-241.2'							
								241				60°, J, No, No, PI, SR @ 241.1-241.2'							
								242				10°, J, No, No, PI, SR @ 241.1-241.2'							
								243				80°, J, T, UK, FI, PI @ 241.2-241.6'							
								244				0°, J, CI, FI, PI, SR @ 243.5'							
								245				0°, J, No, No, PI, SR @ 243.8', 244.2'							
HQ	62	5.0	5.0	4.5	100	90		246				anhydrite; amorphous; aphanitic; fresh; very weak; low hardness; parting @ 245.4', 245.9'							
								247				0°, J, No, No, PI, SR @ 246.3' (fossil bed), 247.7'							
								248				50°, J, No, No, PI, SR @ 246.7-247.0', 247.5'							
								249				claystone band; very light gray; highly weathered; extremely weak; low hardness; @ 247.5-247.7'	Core box #12 starts @ 247.6'.						
								250				brecciated; closely spaced stylolites; fossil beds; @ 248.0-248.2'							
HQ	63	5.0	4.4	3.5	88	70		251											
								252				0°, J, Ca, Pa, PI, SR @ 252.4'							
								253				30°, J, Ca, Pa, PI, SR @ 252.4'							
								254				90°, J, Ca, Pa, PI, SR @ 252.6-252.9'							
								255				gypsum; amorphous; micritic; fresh; very weak; low hardness; parting or band @ 252.9', 253.2-253.4', 253.5-253.7'							
												DOLOMITE; argillaceous; gray; fissile; platy; micritic to very fine grained; fresh; strong; hard; w/closely spaced anhydrite & gypsum partings, beds, & lenses;	Core loss @ 252.4-252.6'.						

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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C7

SHEET 18 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6117.0' E 4450.0'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)					
SURFACE CONDITIONS Level, gravel parking area				COORDINATE SYSTEM Plant				DATE START 06/14/07					
								DATE FINISHED 06/26/07					
SAMPLING				LOGGED BY Granger/TB Bonnie/Mass				CHECKED BY Dogbey/TB Bonnie					
								APPROVED BY Meyer					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	64	5.0	5.0	4.7	100	94		255		325		amorphous; white; few gray; fresh; weak; moderately hard; largest bed 0.4' thick; beds w/convoluted boundaries; (Salina Group - Unit E).	
								256		324			
								257		323		angular fragments @ 257.2-259.3' 0°, J, CI, Fi, PI, S @ 257.2-257.3'	
								258		322			
								259		321		gypsum bed @ 258.9-259.1'	
			259.5					260		320			
								261		319			
HQ	65	5.0	5.0	4.7	100	94		262		318		claystone band; light gray; highly weathered; extremely weak; low hardness @ 261.8-261.9' grades w/no anhydrite & gypsum beds/partings/lenses @ 261.9	Core box #13 starts @ 262.0'.
								263		317		0°, J, Gy, Fi, PI, SR @ 262.8-263.8'	
								264		316		grades w/anhydrite & gypsum beds/partings/lenses @ 264.0'	
			264.5					265		315		0°, J, CI, Pa, PI, SR @ 264.0'	
								266		314		0°, J, Gy, Fi, PI, S @ 265.8'	
								267		313		90°, J, No, No, PI, S @ 265.8-265.9'	
HQ	66	5.0	5.0	4.7	100	94		268		312		GYPSUM/ANHYDRITE; bands & thin beds; white; amorphous; micritic; fresh; weak, hard; convoluted boundaries; soft sediment deformation; (Salina Group - Unit E).	
								269		311		DOLOMITE; argillaceous; gray; fissile; platy; micritic to very fine grained; fresh; strong; hard; w/moderately wide gypsum partings; amorphous; white; few gray; fresh; weak; (Salina Group - Unit E).	
			269.5					270					

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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C7

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6117.0' E 4450.0'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 272.0 (feet)									
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/26/07									
SAMPLING										LOGGED BY <i>Granger</i> TB Granger/Bonnie/Mass										CHECKED BY <i>Em</i> TB Dogbey/Bonnie										APPROVED BY <i>Em</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORING																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	67	2.5	2.5	2.5	100	100	270		310		fossil beds @ 269.5'																												
							271		309		DOLOMITE; dark reddish brown; micritic; fresh; very strong; hard; w/thin shale partings; gray; fresh; strong; moderately hard; convoluted boundaries; wide to close spacing; (Salina Group - Unit E).																												
							272		308												Bottom of boring @ 272.0'. Water level @ 18.4' @ completion of drilling. Backfilled w/ bentonite chips on 09/09/07.																		
							273		307																														
							274		306																														
							275		305																														
							276		304																														
							277		303																														
							278		302																														
							279		301																														
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							283		297																														
							284		296																														
							285																																



5/28/2008 9:44 AM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 2 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY Ohlmacher <i>Geo</i>										CHECKED BY <i>Geo</i> Dodgey/Ohlmacher										APPROVED BY <i>Em</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY PERCENT	RECOVERY	RQD																																
S	4		15.0				5.0	15		565		Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, rounded to subangular sand; about 5% fine, rounded to subangular gravel; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).										PP = 1.1 TSF																	
								16		564																													
								17		563																													
								18		562																													
								19		561												PP = 2.3 TSF																	
								20		560																													
S	5		20.0				5.0	21		559		Lean CLAY with Sand (CL) - About 80% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, subangular to rounded sand, fractured w/1 hammer blow; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).										PP = 3.3 TSF																	
								22		558																													
								23		557																													
								24		556												PP > 4.5 TSF																	
								25		555																													
S	6		25.0				NR	26		554		DOLOMITE; gray; crystalline; micritic; slightly weathered; strong; moderately hard; (Bass Islands Group).										26.0																	
								27		553																													
								28		552																													
								29		551																													
								30																															
			29.5																			Set nominal 6" temporary steel casing to 29.5'. Below 29.5' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid.																	
																						Core box #1 starts @ 29.5'.																	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 3 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)													
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07													
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																															
PQ		1		2.2		1.4		0.9		64		41		30				550				90°, J, T, No, No, PI, SR @ 30.2-30.5', 30.5-31.1', 31.1-31.3', 31.8-32.1'																					
														31				549				0°, J, VN, No, No, PI, SR @ 30.5', 30.6', 30.8'																					
						31.7								32				548				grades shale partings (0.05' spacing), some horizontal stylolites @ 32.0'																					
														33				547				0°, J, VN, No, No, PI, SR @ 32.6', 33.0', 33.2', 33.7', 33.9'																					
														34				546				90°, J, T, No, No, PI, SR @ 32.7-34.0'																					
PQ		2		5.0		5.0		4.4		100		88		35				545				90°, J, T, No, No, PI, SR @ 34.1-36.6'																					
														36				544				0°, J, VN, No, No, PI, SR @ 34.4', 34.7', 35.2'																					
														37				543				grades no shale partings @ 35.5'																					
						36.7								38				542				65°, J, T, No, No, PI, SR @ 36.4-36.7'																					
														39				541				30°, J, VN, No, No, PI, SR @ 36.4-36.6'																					
														40				540				highly fractured @ 36.7-38.0'																					
														41				539				90°, J, T, No, No, PI, SR @ 36.9-37.8'																					
														42				538				90°, J, T, No, No, PI, SR @ 38.0-38.3'																					
														43				537				0°, J, VN, No, No, PI, SR @ 38.1', 38.5', 38.8'																					
														44				536				black shale parting @ 38.1'																					
														45								90°, J, T, No, No, PI, SR @ 38.5-39.3'																					
																						black shale band @ 38.6'																					
																						10°, J, T, No, No, PI, S @ 39.2'																					
																						0°, J, VN, No, No, PI, SR @ 39.1'																					
																						70°, J, VN, No, No, PI, R @ 39.6-40.2'																					
																						highly fractured @ 40.2-40.5'																					
																						0°, J, VN, No, No, PI, SR @ 40.5', 40.7', 40.8', 41.0'																					
																						grades 15% vugs @ 40.5'																					
																						grades mottled gray & dark gray, no vugs @ 40.7'																					
																						black shale parting @ 41.0'																					
						41.7																																					
																						0°, J, VN, No, No, PI, SR @ 41.9', 42.3'																					
																						30°, J, VN, No, No, PI, S @ 42.5-42.6'																					
																						highly fractured @ 42.6-42.7', 42.8-43.4'																					
																						90°, J, T, No, No, PI, SR @ 42.7-43.3'																					
																						DOLOMITE, vuggy; dark gray; slightly weathered;																					
																						strong; moderately hard; 15% vugs; some calcite in																					
																						vugs; banded; (Bass Islands Group).																					
																						0°, J, VN, No, No, PI, SR @ 43.4'																					
																						0°, J, VN, No, No, PI, SR @ 43.6', 44.3', 44.6'																					

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 4 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)																					
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07																					
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																													
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																											
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																														
																				<p>highly fractured; partially cemented @ 44.8-45.5'</p> <p>5°, J, VN, CI, Pa, PI, SR @ 45.7', 46.0'</p> <p>75°, J, T, No, No, PI, SR @ 45.7-46.0'</p> <p>breccia zone, cemented @ 46.5-46.8'</p> <p>calcite vein (0.05' thick) @ 46.5'</p> <p>grades gray, no vugs @ 46.8'</p> <p>highly fractured @ 46.9-47.0'</p> <p>grades 20% vugs @ 47.3'</p> <p>14°, J, VN, No, No, WA, SR @ 47.5', 48.2'</p> <p>90°, J, T, No, No, PI, SR @ 48.2-49.2', 50.4-50.9'</p> <p><u>DOLOMITE</u>; gray; slightly weathered; strong; moderately hard; banded; (Bass Islands Group).</p> <p>highly fractured @ 48.4-48.5'</p> <p>30°, J, T, No, No, PI, SR @ 48.9-49.2'</p> <p>0°, J, VN, No, No, PI, SR @ 49.8', 50.2', 50.9'</p> <p>90°, J, T, No, No, PI, SR @ 51.4-51.7'</p> <p>65°, J, T, No, No, PI, SR @ 52.3-52.6', 52.8-53.3'</p> <p>25°, J, T, No, No, PI, SR @ 52.5'</p> <p>90°, J, T, No, No, PI, SR @ 52.9-54.0'</p> <p>40°, J, T, No, No, PI, SR @ 54.1-54.3'</p> <p>20°, J, T, No, No, PI, SR @ 54.3'</p> <p>0°, J, VN, No, No, PI, SR @ 54.4', 54.6'</p> <p>90°, J, T, No, No, PI, SR @ 54.4-54.7'</p> <p><u>DOLOMITE</u>; argillaceous; dark gray; micritic; fresh; weak; low hardness; bedding &lt; 1/4"; (Bass Islands Group).</p> <p><u>DOLOMITE</u>; mottled dark gray &amp; gray; micritic; strong; moderately hard; (Bass Islands Group).</p> <p><u>DOLOMITE</u>; oolitic; brownish gray; very fine grained; strong; moderately hard; banded; (Bass Islands Group).</p> <p>0°, J, VN, No, No, PI, SR @ 54.9', 57.7', 57.8'</p> <p>90°, J, T, No, No, PI, SR @ 54.9-55.2', 55.4-55.6', 55.6-56.4', 56.4-56.9'</p> <p>80°, J, VN, No, No, PI, SR @ 57.0-58.0'</p> <p><u>DOLOMITE</u>; brecciated; indurated; gray; very fine grained; fresh; strong; moderately hard; banded; (Bass Islands Group).</p>										<p>Core box #3 starts @ 48.7'. Vibrations in drill stem @ 49.0'.</p> <p>Water level @ 8.4' prior to drilling on 06/15/07.</p> <p>Loosing drilling fluid @ 55.5'.</p> <p>Core box #4 starts @ 57.8'.</p>																					
PQ 5 5.0 4.8 4.2 96 84										45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60										535 534 533 532 531 530 529 528 527 526 525 524 523 522 521																															
PQ 6 4.7 4.7 2.5 100 53																																																			
PQ 7 5.3 5.2 3.1 98 58																																																			

CLIENT						PROJECT LOCATION						COORDINATES						GROUND ELEVATION (DATUM)						TOTAL DEPTH											
Detroit Edison						Fermi 3 COL Application						N 6110.9'						E 4534.4'						580.4 ft (NAVD 88)						471.5 (feet)					
SURFACE CONDITIONS												COORDINATE SYSTEM						DATE START						DATE FINISHED											
Gravel parking lot near field												Plant						06/13/07						06/28/07											
SAMPLING												LOGGED BY						CHECKED BY						APPROVED BY											
												Ohlmacher						Dogbey/Ohlmacher						Meyer											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																													
PQ	8	5.0	5.0	0.5	100	10	60		520		0° J,VN,Ci,Pa,WA,R @ 58.5',58.6' black clay band @ 58.6-58.7' highly fractured @ 58.7-58.4' grades no breccia, banded @ 58.9' 90°,J,T,No,No,Pi,SR @ 58.9-59.8' 0°,J,VN,No,No,Pi,SR @ 59.0',59.6',59.9' 65°,J,T,No,No,Pi,SR @ 59.9-60.2' grades breccia indurated w/angular to subrounded fragments @ 60.0' 0°,J,T,No,No,Pi,SR @ 60.2',61.0',61.1',62.0',62.5',63.6' grades no breccia @ 60.4' 0°,J,N,Ci,Fi,Pi,R @ 60.6' grades breccia indurated @ 60.8'																								
			61.7				61		519																										
							62		518																										
							63		517																										
							64		516																										
							65		515																										
							66		514																										
PQ	9	5.0	5.0	3.8	100	76	67		513		0°,J,T,No,No,Pi,SR @ 67.0',67.8',68.0',68.1' 10°,J,T,No,No,Pi,SR @ 67.4' grades 5% vugs @ 67.8' 70°,J,T,No,No,Pi,SR @ 67.8-68.4' 0°,J,T,No,No,Pi,SR @ 68.5',68.6',68.7'	Core box #5 starts @ 66.7'																							
							68		512																										
							69		511		0°,J,T,No,No,Pi,SR @ 69.3',70.3'																								
							70		510																										
							71		509		90°,J,T,No,No,Pi,SR @ 70.4-70.8' 0°,J,T,No,No,Pi,SR @ 70.6',70.9'																								
PQ	10	5.0	5.0	3.9	100	78	72		508		0°,J,T,No,No,Pi,SR @ 72.4',72.5' 90°,J,T,No,No,Pi,SR @ 72.4-72.7'																								
							73		507																										
							74		506		90°,J,T,No,No,Pi,SR @ 73.7-74.0'																								
							75		506		80°,V,MW,Ca,Fi,Pi,SR @ 74.6-75.1'																								



CLIENT										PROJECT										SHEET # OF 3																													
Detroit Edison										Fermi 3 COL Application										PROJECT NO. 147483																													
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																		
Monroe, MI					N 6110.9'					E 4534.4'					580.4 ft (NAVD 88)					471.5 (feet)																													
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																													
Gravel parking lot near field										Plant					06/13/07					06/28/07																													
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																													
										Ohlmacher					Dogbey/Ohlmacher					Meyer																													
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS														
CORE SIZE										RUN					RUN LENGTH					RUN RECOVERY					RQD					PERCENT RECOVERY					RQD														
PQ										11					5.0					4.8					2.7					96					54														
																				76.7																													

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6110.9'					E 4534.4'					580.4 ft (NAVD 88)		471.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot near field										Plant					06/13/07		06/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Ohlmacher					Dogbey/Ohlmacher					Meyer	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 8 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)		TOTAL DEPTH 471.5 (feet)				
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07				
SAMPLING				LOGGED BY Ohlmacher		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	17	5.0	5.0	4.2	100	84	105		475		90° J,T,No,No,PI,SR @ 105.0-105.2', 105.4-105.6', 105.6-106.3', 111.2-111.7'	
							106		474		40° J,T,No,No,PI,SR @ 105.2-105.4'	
											0° J,VN,No,No,PI,SR @ 105.4'	
											0° J,VN,Ca,Fi,PI,SR @ 106.1'	
											30° J,VN,Ca,Fi,PI,SR @ 106.5-106.6'	
							107		473		grades 5% vugs @ 107.3'	
							108		472		50° J,T,No,No,PI,SR @ 107.3-107.5', 107.4-107.6'	
							109		471		70° J,VN,Ca,Pa,PI,SR @ 109.1-109.9'	
							110		470		unit has ~10° dip @ 110.0'	
							111		469		75° J,VN,No,No,PI,SR @ 110.5-111.1'	
											breccia; indurated w/some rounded clasts @ 110.8-111.0'	
							112		468		15° J,VN,No,No,PI,SR @ 111.1', 115.3'	
											90° J,T,No,No,PI,SR @ 111.2-111.4', 111.8-113.2'	
											25° J,VN,No,No,PI,S @ 111.2'	
											60° V,VN,Ca,Fi,PI,SR @ 111.4-111.6'	
							113		467		BRECCIA; indurated; dolomite clasts in dolomite matrix; gray to brownish gray; micritic to very coarse grained; slightly weathered; strong; moderately hard; (Bass Islands Group).	
							114		466		0° J,VN,No,No,PI,SR @ 112.1', 113.1', 113.7'	
											highly fractured @ 112.1-115.3'	
											50° J,T,No,No,PI,SR @ 113.2-113.8', 113.7-114.2'	
											30° J,VN,No,No,PI,SR @ 113.5-113.6'	
											90° J,T,No,No,PI,SR @ 114.1-115.4'	
							115		465		DOLOMITE; gray; micritic; fresh; strong; moderately hard; banded; (Bass Islands Group).	
							116		464		0° J,VN,No,No,PI,SR @ 114.8'	
											40° J,T,No,No,PI,SR @ 114.9-115.1', 115.0-115.5'	
							117		463		highly fractured @ 116.7-118.2'	
											DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; moderately hard; banded; (Salina Group - Unit F).	
							118		462		90° J,T,No,No,PI,SR @ 117.4-117.7'	
											0° J,VN,No,No,PI,SR @ 117.7', 118.0', 118.2'	
											90° J,T,No,No,PI,SR @ 118.0-118.2'	
							119		461		SHALE; dark gray; fresh; weak; friable; (Salina Group - Unit F).	
							120				SHALE; dolomitic; interbedded w/DOLOMITE;	

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C8****SHEET 9 OF 32**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4'		TOTAL DEPTH 471.5 (feet)		DATE START 06/13/07		
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE FINISHED 06/28/07						
SAMPLING				LOGGED BY Ohlmacher		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	20	5.0	3.9	1.1	78	22	120		460		argillaceous; dark gray, brownish gray to gray; micritic; fresh; weak; friable to moderately hard; banded; vugs to 1.5" filled w/calcite; (Salina Group - Unit F). 40°, J, T, No, No, PI, SR @ 119.5-119.7'	Core box #11 starts @ 121.7'.
							121		459		90°, J, VN, No, No, PI, SR @ 119.7-120.5', 120.0-120.5', 120.6-121.2', 120.8-121.1', 123.2-123.9' 0°, J, VN, No, No, PI, SR @ 119.7' highly fractured @ 120.7-121.3'	
							122		458		0°, J, VN, No, No, PI, SR @ 120.9', 120.8', 120.7', 120.2', 123.1', 123.7', 123.9'	
							123		457		40°, J, VN, No, No, PI, SR @ 121.2-121.4' highly fractured @ 121.7-122.5'	
							124		456		45° J, VN, No, No, PI, SR @ 122.6-122.8'	
							125		455		DOLOMITE; argillaceous; (Salina Group - Unit F). SHALE; brownish gray to dark gray; fresh; weak; friable to moderately hard; interbedded w/thin anhydrite partings; (Salina Group - Unit F). highly fractured @ 124.3-125.2'	
							126		454		90°, J, VN, No, No, PI, SR @ 125.9-126.5', grades black; strong; w/calcite & anhydrite crystals @ 126.1'	
							127		453		SHALE; brownish gray to dark gray; fresh; weak; friable; interbedded w/dolomitic shale & anhydrite; (Salina Group - Unit F).	
							128		452		0°, J, VN, No, No, PI, SR @ 127.0', 127.4', 128.6', 128.9' highly fractured @ 127.5-127.7', 128.1-128.3'	
PQ	21	5.0	4.8	3.2	96	64	129		451		SHALE; dolomitic; gray; fresh; moderately strong; low hardness; (Salina Group - Unit F). 90°, J, VN, No, No, PI, SR @ 130.0-131.1', 131.5-131.7' 0°, J, VN, No, No, PI, SR @ 130.2', 130.9'	
							130		450		0°, J, VN, No, No, PI, SR @ 131.1', 131.3', 131.5'	
							131		449		highly fractured @ 131.7-133.6'	
							132		448			
							133		447			
PQ	22	5.0	3.3	0.5	66	10	134		446		0°, J, VN, No, No, PI, SR @ 133.6', 133.8' 90°, J, VN, No, No, PI, SR @ 133.6-133.8', 134.0-134.6' highly fractured @ 133.8-134.0' grades weak, friable @ 134.0' 40°, J, VN, No, No, PI, SR @ 134.4-134.6'	
							135					

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 10 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4'		TOTAL DEPTH 471.5 (feet)				
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07				
SAMPLING				LOGGED BY Ohlmacher <i>GO</i>		CHECKED BY Dogbey/Ohlmacher <i>GO</i>		APPROVED BY Meyer <i>EM</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							135		445		DOLOMITE; argillaceous; gray; micritic; fresh (upper 0.2' moderately weathered); strong; moderately hard; banded; (Salina Group - Unit F). highly fractured @ 135.3-135.6'	
							136		444		0°, J, VN, No, No, PI, SR @ 135.6', 135.7', 136.0'	
							137		443		90°, J, T, No, No, PI, SR @ 135.8-136.4', 137.1-137.4' highly fractured @ 136.7-138.1'	
							138		442		SHALE; dolomitic; greenish gray; fresh; weak; friable; crumbly; (Salina Group - Unit F).	Core loss possibly due to washout.
PQ	23	5.0	3.0	0.0	60	0	139		441			
							140		440			
							141		439			
							142		438		highly fractured @ 141.7-142.0'	
							143		437		90°, J, VN, No, No, PI, SR @ 142.0-142.4'	
							144		436		0°, J, VN, No, No, PI, SR @ 142.0'	
PQ	24	5.0	4.5	1.7	90	34	145		435		highly fractured shale, VC @ 143.0-144.5'	
							146		434		0°, J, VN, No, No, PI, SR @ 144.7', 145.1', 145.4', 145.7', 145.9'	Core box #13 starts @ 144.4'.
							147		433		70°, J, VN, No, No, PI, SR @ 145.4-145.6'	
							148		432		thin parting; anhydrite w/shale @ 145.4-145.6'	
							149		431		highly fractured shale @ 145.7-145.9'	
PQ	25	5.0	3.5	1.3	70	26	150				DOLOMITE; argillaceous; bluish gray; micritic; fresh; strong; moderately hard; medium bedded; (Salina Group - Unit F). highly fractured @ 146.7-147.1'	
											0°, J, VN, No, No, PI, SR @ 147.1', 147.5'	
											70°, J, VN, No, No, PI, SR @ 147.1-147.4'	
											highly fractured @ 147.5-147.9'	
											SHALE; dolomitic; greenish gray; fresh; weak; friable; parting; (Salina Group - Unit F).	
											0°, J, VN, No, No, PI, SR @ 147.9'	
											70°, J, VN, No, No, PI, SR @ 147.9-148.1', 149.4-149.9'	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 11 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)													
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07													
SAMPLING										LOGGED BY Ohlmacher GLO										CHECKED BY Dogbey/Ohlmacher GLO										APPROVED BY EM Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
PQ		26		5.0		3.3		0.9		66		18		150				430				highly fractured @ 148.6-149.4'																					
														151				429				argillaceous dolomite band @ 151.0-151.1' highly fractured @ 151.1-151.7'																					
				151.7										152				428				bluish gray dolomite band; highly fractured @ 152.0-152.2'																				Water level @ 14.9' prior to drilling on 06/17/07.	
														153				427				bluish gray argillaceous dolomite band; highly fractured @ 153.0-153.1' 90°, J, VN, No, No, PI, SR @ 153.0-153.1' 55°, J, VN, No, No, PI, SR @ 153.2-153.6' 0°, J, VN, No, No, PI, SR @ 153.8', 155.3'																					
														154				426				40°, J, VN, No, No, PI, SR @ 155.1-155.3' 90°, J, VN, No, No, PI, SR @ 155.7-156.0',																					
				156.7										155				425																									
														156				424																									
														157				423				dark bluish gray; argillaceous dolomite band @ 157.1-157.2'																				Core box #14 starts @ 156.7'.	
														158				422				dark bluish gray; thin argillaceous dolomite bed @ 157.8-158.2' 90°, J, VN, No, No, PI, SR @ 157.8-158.2'																					
														159				421				dark bluish gray; argillaceous dolomite band @ 159.1-159.2'																					
														160				420				dark bluish gray; argillaceous dolomite band @ 160.0-160.2' highly fractured @ 160.0-161.2'																					
														161				419				argillaceous dolomite band @ 161.0-161.2'																					
				161.7										162				418				dark bluish gray dolomite band @ 161.7-161.8'																					
														163				417				DOLOMITE; argillaceous; greenish gray; (Salina Group - Unit F). 90°, J, VN, No, No, PI, SR @ 163.0-163.2', 163.5-164.1' highly fractured @ 163.2-164.1'																					
														164				416																									
														165								SHALE; dolomitic; greenish gray; fresh; weak; friable;																					

CLIENT										PROJECT										PROJECT NO.																																																																															
Detroit Edison										Fermi 3 COL Application										147483																																																																															
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																																																																				
Monroe, MI					N 6110.9'					E 4534.4'					580.4 ft (NAVD 88)					471.5 (feet)																																																																															
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																																																																															
Gravel parking lot near field										Plant					06/13/07					06/28/07																																																																															
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																																																																															
										Ohlmacher					Dogbey/Ohlmacher					Meyer																																																																															
SAMPLE TYPE										DEPTH (FEET)										CLASSIFICATION OF MATERIALS										REMARKS																																																																					
SAMPLE NUMBER										SAMPLE TYPE																																																																																									
SET 6 INCHES										ELEVATION (FEET)																																																																																									
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PQ										29										5.0										0.8										0.0										16										0																																							
										169																																																																																									
										170																																																																																									
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										172																																																																																									
										408																																																																																									
										173																																																																																									
										407																																																																																									
PQ										30										5.0										3.0										1.1										60										22																																							
										174																																																																																									
										406																																																																																									
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										178																																																																																									
										402																																																																																									
PQ										31										5.0										1.5										0.0										30										0																																							
										179																																																																																									
										401																																																																																									
										180																																																																																									

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 13 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)													
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07													
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
														180								fractured @ 179.5-179.7'																				Driller reported a water level drop.	
														181																													
														182								20° J,VN,No,No,PI,SR @ 182.5-182.6', 182.2-182.3'																					
PQ		32		5.0		3.9		1.6		78		32		183								BRECCIA; shale, siltstone, & dolomite clasts in poorly indurated calcareous claystone matrix; dark bluish gray; vuggy; micritic to very coarse grained; fresh; very weak; friable; banded; clasts are rounded to angular; elongate; siltstone clasts are very pale brown; (Salina Group - Unit F).																					
														184								0° J,VN,No,No,PI,SR @ 183.6', 183.7', 185.7' highly fractured @ 184.2-185.2'																					
														185								20° J,VN,No,No,PI,SR @ 185.3-185.4'																					
														186								65° J,VN,No,No,PI,SR @ 185.5-186.2'																					
														187								brown; thin argillaceous limestone bed; vuggy @ 186.3-186.7'																					
														188								30° J,VN,No,No,PI,SR @ 186.3-186.5'																					
														189								90° J,VN,No,No,PI,SR @ 186.5-186.7'																					
PQ		33		5.0		4.0		1.0		80		20		190								0° J,VN,No,No,PI,SR @ 186.5', 187.1'																					
														191								30° J,VN,No,No,PI,SR @ 187.2-187.4 highly fractured @ 187.3-188.1'																					
														192								40° J,VN,No,No,PI,R @ 187.8-188.1'																					
														193								0° J,VN,No,No,PI,SR @ 188.3'																					
														194								20° J,VN,No,No,PI,SR @ 188.7-188.5', 189.7-189.9'																					
														195								0° J,VN,No,No,PI,SR @ 189.0'																					
																						20° J,VN,No,No,PI,SR @ 189.7-189.9'																					
																						70° J,VN,No,No,PI,R @ 189.7-190.1'																					
																						highly fractured @ 190.0-190.2'																					
																						0° J,VN,No,No,PI,SR @ 190.3'																					
																						clay filled void @ 190.3-190.6'																					
																						30° J,VN,No,No,PI,SR @ 190.4-190.5'																					
																						DOLOMITE; argillaceous; brown; banded; 5% vugs; (Salina Group - Unit F).																				Core box #16 starts @ 191.1'.	
																						0° J,T,No,No,PI,S @ 190.9'																					
																						0° J,VN,No,No,PI,SR @ 191.1'																					
																						BRECCIA; shale, siltstone, & dolomite clasts in poorly indurated calcareous claystone matrix; dark bluish gray; vuggy; micritic to very coarse grained; fresh; very weak; friable; banded; clasts are rounded to angular; elongate; siltstone clasts are very pale brown; (Salina Group - Unit F).																					
PQ		34		5.0		3.2		0.0		64		0										LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).																					



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 14 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)		TOTAL DEPTH 471.5 (feet)	
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07	
SAMPLING				LOGGED BY Ohlmacher GCO		CHECKED BY Dogbey/Ohlmacher GCO		APPROVED BY Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORING									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	CLASSIFICATION OF MATERIALS
							195		bluish gray; thin argillaceous dolomite bed; micritic @ 193.5-193.8'
							196		90°, J, VN, No, No, PI, SR @ 193.5-193.8'
									highly fractured @ 193.8-196.0'
			196.7				197		DOLOMITE; argillaceous; bluish gray; micritic; massive; (Salina Group - Unit F).
									70°, J, T, No, No, PI, SR @ 196.1-196.5', 196.2-196.4'
							198		LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).
									DOLOMITE; argillaceous; dark bluish gray; banded; (Salina Group - Unit F).
							199		90°, J, T, No, No, PI, SR @ 197.1-197.6'
PQ	35	5.0	2.7	0.6	54	12	200		highly fractured @ 197.1-197.6'
									LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).
							201		SHALE; dark bluish gray; fresh; very weak; friable; banded w/dolomite beds; (Salina Group - Unit F).
									BRECCIA; poorly indurated; limestone & shale clasts in calcareous claystone matrix; dark bluish gray; coarse to fine grained; fresh; moderately strong; low hardness; vuggy; (Salina Group - Unit F).
			201.7				202		60°, VN, No, No, PI, R @ 199.3-199.7'
									SHALE; limey; dark bluish gray; fresh; very weak; friable; (Salina Group - Unit F).
							203		BRECCIA; indurated; claystone & limestone clasts in an argillaceous limestone matrix; dark bluish gray & white; very coarse to fine grained; fresh; strong; low to moderately hard; appears vuggy on surface due to washout of surface clasts; (Salina Group - Unit F).
PQ	36	5.0	5.0	1.8	100	36	204		0°, J, VN, No, No, PI, R @ 201.8', 202.6', 203.1', 203.5', 203.6', 203.7', 205.3', 205.5', 205.8', 206.1', 206.4', 206.6'
									highly fractured @ 204.3-204.9'
							205		LIMESTONE; dark greenish gray & brown; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).
									80°, J, VN, No, No, PI, R @ 204.7-205.2'
							206		90°, J, N, Ca, Pa, WA, R @ 205.3-206.2'
			206.7				207		DOLOMITE; argillaceous; pale brown; micritic; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F).
									50°, J, VN, Ca, Pa, PI, SR @ 206.1-206.3'
							208		0°, J, VN, No, No, PI, R @ 207.2', 207.4', 208.1', 208.9', 209.2', 209.5'
									20°, J, VN, No, No, PI, R @ 207.4'
							209		90°, J, VN, No, No, PI, R @ 207.5-207.9', 209.0-209.1'
PQ	37	5.0	4.2	0.85	84	17			15°, J, VN, No, No, PI, R @ 207.7'
									LIMESTONE; dark greenish gray; vuggy; banded; (Salina Group - Unit F).
							210		

Water level @ 22.5' prior to drilling on 06/18/07.

Core box #17 starts @ 204.2'.

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 15 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4'		TOTAL DEPTH 471.5 (feet)		DATE FINISHED 06/28/07		
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07				
SAMPLING				LOGGED BY Ohlmacher		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							210		370		highly fractured @ 208.3-208.7' 90° J,VN,No,No,WA,R @ 210.0-210.4' highly fractured @ 210.4-210.9'	
							211		369		DOLOMITE; argillaceous; pale brown; micritic; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F). 35° J,VN @ 210.9-211.3' 0° J,VN,No,No,PI,SR @ 211.3', 212.3', 212.5' 90° J,VN,Ca,Fi,PI,SR @ 211.4-211.7', 214.0-214.1' 20° J,T,No,No,PI,SR @ 212.0' 45° J,T,No,No,PI,SR @ 212.2-212.3'	
PQ	38	5.0	4.3	2.1	86	42	214		366		LIMESTONE; greenish gray to brownish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F). 0° J,N,No,No,WA,R @ 212.6', 212.7', 214.1', 214.0', 214.6', 214.7', 214.8', 215.2', 215.3', 215.4', 215.7'	
							215		365		DOLOMITE; argillaceous; pale brown; micritic; fresh; moderately strong; moderately hard; massive; (Salina Group - Unit F).	Core box #18 starts @ 214.8'.
							216		364		BRECCIA; indurated; argillaceous dolomite & limestone clasts in argillaceous dolomite matrix; pale brown & gray; fine to coarse grained; fresh; strong; hard; (Salina Group - Unit F). highly fractured @ 214.1-214.3'	
							217		363		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F). 50° J,VN,No,No,WA,R @ 214.4-214.5', 215.5-215.7' 40° J,N,No,No,WA,R @ 214.5-214.8' grades banded w/shale partings @ 214.7'	
PQ	39	5.0	4.5	0.4	90	8	219		361		LIMESTONE; gray; vuggy; micritic; fresh; very strong; hard; massive; (Salina Group - Unit F). highly fractured @ 215.3-215.8'	
							220		360		BRECCIA; poorly indurated; argillaceous dolomite clasts in dolomitic claystone matrix; brown & gray, fine to coarse grained; fresh; strong; hard; (Salina Group - Unit F). 90° J,N,Ca,Pa,PI @ 216.9-217.1', 217.7-218.0'	
							221		359		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F). 0° J,N,No,No,PI,R @ 217.2', 217.3', 217.6', 218.0' highly fractured @ 218.3-219.0'	
							222		358		BRECCIA; poorly indurated; shale & argillaceous dolomite clasts in dolomitic claystone matrix; dark bluish gray; fine to very coarse grained; fresh; strong (clasts); hard (clasts); two fining upward sequences; (Salina Group - Unit F). 0° J,N,No,No,PI,R @ 221.7'	Core loss @ 222.0'.
PQ	40	5.0	1.5	0.0	30	0	224		356		60° J,T,No,No,PI,SR @ 224.1-224.6'	
							225					



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C8

SHEET 16 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																						
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)																																																																												
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07																																																																												
SAMPLING										LOGGED BY Ohlmacher GCO										CHECKED BY Dogbey/Ohlmacher GCO										APPROVED BY Meyer EM																																																																												
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																				
							225																																								Shale or soft rock ground up, intact dolomite lodged in core barrel																																																											
							226																																																																																																			
							226.7																																																		Water level @ 23.7' prior to drilling on 06/19/07. Core box #19 starts @ 226.7'.																																																	
PQ 41 5.0 1.6 0.0 32 0							227																																																																																																			
							228																																																																																																			
							229																																																												BRECCIA; poorly indurated to indurated; dolomite & shale clasts in dolomitic shale matrix; bluish gray; fine to very coarse grained; fresh; weak to strong; moderately hard; medium bedded; fining upward sequences; (Salina Group - Unit F).																																							
							230																																																																																																			
							231																																																																																																			
							232																																																												highly fractured @ 231.7-232.1'																																							
							233																																																																						0°, J, VN, No, No, PI, SR @ 232.2', 232.3', 232.5', 232.9'																													
PQ 42 5.0 4.5 0.7 90 14							234																																																																						70°, J, VN, No, No, PI, SR @ 233.2-233.7', 233.5-233.9', 233.7-234.0'																													
							235																																																																						highly fractured @ 233.6-234.1' grades calcite cemented w/white calcite crystals in vugs (10%) @ 233.8'																													
							236																																																																						15°, J, VN, No, No, PI, SR @ 234.3'																													
							237																																																																						30°, J, T, No, No, PI, SR @ 234.5-234.6'																													
							238																																																																						highly fractured @ 234.9-235.1'																													
							239																																																																																LIMESTONE; brown; vuggy; (Salina Group - Unit F). 0°, J, VN, No, No, PI, SR @ 235.5', 235.9', 236.0', 236.1', 236.2', 236.4'																			
							240																																																																																										DOLOMITE; argillaceous; dark bluish gray; micritic; fresh; very strong; moderately hard; banded; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 237.1', 237.3', 237.4', 237.5', 237.6', 237.7'									
PQ 43 5.0 4.4 2.3 88 46							241																																																																																90°, J, T, No, No, PI, SR @ 237.5-237.7' grades very pale brown; strong; massive w/shale partings; shells (0.05%); 237.8'																			
							242																																																																																0°, J, VN, No, No, PI, SR @ 237.8', 237.9', 238.0', 238.3', 238.5', 238.9', 239.3'																			
							243																																																																																50°, V, N, Ca, Fi, PI, R @ 238.7-238.8'																			
							244																																																																																70°, J, T, No, No, PI, SR @ 238.8-239.3'																			

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 17 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY Ohlmacher <i>Geo</i>										CHECKED BY Dogbey/Ohlmacher <i>Geo</i>										APPROVED BY Meyer <i>En</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																	
							240		340		80° V, VN, Ca, Fi, PI, R @ 238.8-239.3' highly fractured @ 239.6-240.1'										Core box #20 starts @ 240.1'.																		
							241		339																														
							242		338		grades 5% vugs @ 241.7' 0° J, VN, No, No, PI, S @ 241.8', 242.4', 242.5'(2), 242.8'																												
							243		337		90° J, T, Ca, No, No, PI, SR @ 242.5-243.1' grades 0% vugs @ 242.5'																												
							244		336		LIMESTONE; bluish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit E). 0° J, VN, No, No, PI, S @ 243.1'																												
PQ	44	5.0	4.6	1.8	92	36	245		335		very closely spaced horizontal fractures @ 243.4-244.1'																												
							246		334		DOLOMITE; argillaceous; very pale brown; micritic; fresh; strong; moderately hard; massive; w/shale partings; shells (0.05'); (Salina Group - Unit E). 0° J, VN, No, No, PI, S @ 244.3', 244.6', 244.7', 244.8', 244.9', 245.0', 245.1', 245.7'																												
							247		333		90° J, T, Ca, No, No, PI, SR @ 244.3-244.6' 25° J, VN, No, No, PI, SR @ 245.4-245.5' 70° J, T, No, No, PI, SR @ 246.3-246.5'																												
							248		332		0° B, VN, No, No, PI, SR @ 247.2', 247.7', 248.1'																												
							249		331		75° J, T, No, No, PI, SR @ 248.2-248.7'																												
PQ	45	5.0	4.9	4.9	98	98	250		330		0° B, VN, No, No, PI, SR @ 249.0', 250.5', 250.9'										Core box #21 starts @ 249.0'.																		
							251		329		90° J, T, No, No, PI, SR @ 249.4-250.4', 250.5-250.9', 251.3-251.6'																												
							252		328		grades to light gray @ 250.7'																												
							253		327		highly fractured @ 251.7-253.2' shale & argillaceous dolomite; dark bluish gray @ 251.8-252.1'																												
							254		326		grades light brown; banded @ 252.5'																												
PQ	46	5.0	4.3	1.4	86	28	255				grades gray; massive @ 253.2' 70° J, T, No, No, PI, SR @ 253.2-253.5' 20° B, VN, No, No, PI, SR @ 253.5', 253.8' 30% vugs @ 253.7-254.2'																												
											10° B, VN, No, No, PI, SR @ 254.7'																												

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 18 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4'		TOTAL DEPTH 471.5 (feet)		580.4 ft (NAVD 88)		
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07				
SAMPLING				LOGGED BY GEO Ohlmacher		CHECKED BY GEO Dogbey/Ohlmacher		APPROVED BY EM Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							255		325		interbedded bluish gray shale & argillaceous dolomite; shale layers up to 0.05' thick (banded) @ 254.9-255.2'	
											0° B, VN, No, No, PI, SR @ 255.2', 257.0'	
							256		324		0° V, VN, anhydrite, Fi, PI, SR @ 255.3', 255.4', 255.9', 256.0'	
			256.7								anhydrite veins increasing w/depth; dolomite grades banded @ 255.4'	
							257		323		0° B, N, anhydrite, Fi, PI, SR @ 255.5', 256.1', 256.2'	
											0° V, N, anhydrite, Fi, PI, SR @ 256.15'	
							258		322		highly fractured, VC, veins; anhydrite; over 50% veins; up to narrow aperture @ 256.3-257.0'	
											anhydrite vein spacing decreasing @ 257.0'	
PQ	47	5.0	4.9	3.8	98	76	259		321		thin anhydrite bed @ 257.8-258.2'	
											0° J, VN, No, No, PI, R @ 257.8', 259.0'	
											grades light brown @ 258.2'	
							260		320		band of anhydrite @ 258.3-258.4'	
											grades 20% anhydrite nodules; moderately wide spaced anhydrite-filled veins; VN @ 258.5'	
							261		319		grades no anhydrite nodules; no anhydrite veins @ 259.6'	
											0° J, VN, No, No, PI, R @ 260.0', 260.7'	
											grades grayish brown; massive @ 260.0'	
							262		318		0° J, VN, anhydrite, Pa, PI, R @ 260.3', 260.8'	
											grades very dark bluish gray @ 260.9'	
											0° B, VN, No, No, PI, SR @ 261.1', 261.4'	
			261.7				263		317		grades alternating light brown; banded w/anhydrite bands up to 1/2" thick & anhydrite veins @ 262.5'	
											0° B, VN, anhydrite, Pa, PI, SR @ 262.6'	
							264		316		grades no anhydrite @ 263.1'	
PQ	48	5.0	5.0	5.0	100	100					0° B, T, No, No, PI, S @ 263.2', 264.6'	
											anhydrite veins, VN, PI, SR @ 263.4'	
							265		315		thin anhydrite bed w/argillaceous dolomite @ 263.8-264.1'	
											0° J, VN, No, No, PI, R @ 264.0', 265.7'	
							266		314			
											ANHYDRITE; white to light gray; micritic; fresh; strong; low hardness; banded; w/argillaceous dolomite beds; (Salina Group - Unit E).	Water level @ 22.6' prior to drilling on 06/20/07.
							267		313			
			266.7								0° J, N, No, No, PI, R @ 267.1'	
							268		312			
											DOLOMITE; argillaceous; banded light brownish gray & gray; micritic; fresh; strong; hard; massive; fossils (<1%); (Salina Group - Unit E).	
							269		311		20° V, N, anhydrite, Fi, WA, S @ 267.3'	
PQ	49	5.0	5.0	4.7	100	94					0° V, N, anhydrite, Fi, PI, SR @ 268.0'	
											grades banded light brownish gray & brown @ 268.1'	
											0° B, T, No, No, PI, S @ 268.8'	
											grades gray & black; w/black shale partings every 0.1-0.2' @ 268.8'	
							270					Core box #23 starts @ 268.8'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C8

SHEET 19 OF 32

CLIENT				PROJECT				PROJECT NO.				
Detroit Edison				Fermi 3 COL Application				147483				
PROJECT LOCATION				COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH				
Monroe, MI				N 6110.9'		E 4534.4' 580.4 ft (NAVD 88)		471.5 (feet)				
SURFACE CONDITIONS				COORDINATE SYSTEM		DATE START		DATE FINISHED				
Gravel parking lot near field				Plant		06/13/07		06/28/07				
SAMPLING				LOGGED BY		CHECKED BY		APPROVED BY				
				Ohlmacher		Dogbey/Ohlmacher		Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							270				0° B,T,No,No,WA,S @ 269.7'	
											15° J,T,No,No,WA,S @ 270.3', 270.9'	
											0° B,T,No,No,PI,S @ 270.4', 271.0', 271.4'	
							271					
											0° V,N,anhydrite,Fi,PI,S @ 271.6'	
							272				light brownish gray; w/anhydrite veins @ 272.0-272.2'	
											25° J,T,anhydrite,Sp,St,SR @ 272.2-272.3'	
							273					
											0° V,N,anhydrite,Fi,PI,S @ 273.1', 274.4'	
											10° V,MW,anhydrite,Fi,PI,SR @ 273.3'	
											10° B,T,No,No,PI,S @ 273.4'	
							274				10° B,T,anhydrite,Fi,WA,SR @ 273.8'	
PQ	50	5.0	5.0	4.5	100	90					light brownish gray @ 273.8-274.4'	
							275					
											10° V,N,anhydrite,Fi,PI,SR @ 275.4'	
											light brownish gray; w/anhydrite beds; nodules; veins @ 275.6-278.2'	
							276				0° J,VN,No,No,WA,R @ 275.8', 276.4'	
							277				0° J,N,anhydrite,Sp,PI,R @ 277.1'	
												Core box #24 starts @ 277.1'.
							278				0° V,N,anhydrite,Fi,PI,S @ 278.1'	
							279				light brownish gray; w/shale partings; 0.1-2.0" spacing @ 279.1-280.3'	
											0° B,T,No,No,PI,SR @ 279.4', 280.4'	
							280				0° V,VN,anhydrite,Fi,WA,S @ 279.5'	
							281				black dolomitic shale band @ 281.0-281.2'	
											0° V,MW,anhydrite,Fi,PI,S @ 281.1'	
											light brownish gray; w/anhydrite nodules @ 281.2-285.0'	
							282				0° V,VN,anhydrite,Fi,PI,SR @ 281.7', 282.3'	
							283				0° J,VN,anhydrite,Sp,PI,R @ 282.8'	
											thin anhydrite bed @ 283.1-283.5'	
							284					
											0° B,T,No,No,PI,SR @ 284.1'	
											90° V,N,anhydrite,Fi,PI,R @ 284.2-285.0', 283.4-284.0' (2)	
PQ	52	5.0	5.0	4.6	100	92	285					



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C8

SHEET 20 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI			COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4'		TOTAL DEPTH 471.5 (feet)		
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07	
SAMPLING				LOGGED BY Ohlmacher <i>GCC</i>		CHECKED BY Dogbey/Ohlmacher <i>GCC</i>		APPROVED BY Meyer <i>EM</i>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORING									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	CLASSIFICATION OF MATERIALS
									REMARKS
							285		grades light gray @ 285.0'
									0° B,T,No,No,PI,SR @ 285.0'
									0° J,T,No,No,PI,SR @ 285.2'
							286		grades no fossils @ 285.6'
									0° B,T,No,No,PI,R @ 285.7'
			286.7						286.0
							287		DOLOMITE; crystalline; light gray; micritic; fresh;
									strong; hard; massive; w/stylolites & black partings
									spaced 2-3"; (Salina Group - Unit E).
									90° V,VN,anhydrite,PI,SR @ 287.3-287.5', 287.9-
									288.2'
									anhydrite filled fractures; VC @ 287.4-287.9'
									0° B,VN,No,No,PI,SR @ 287.6'
									anhydrite nodules @ 288.2-288.5'
									0° J,T,No,No,St,SR @ 288.6'
PQ	53	5.0	4.9	4.9	98	98	289		0° J,T,No,No,St,SR @ 289.3', 289.8'
							290		
							291		0° B,VN,No,No,PI,SR @ 290.7'
									65° J,VN,anhydrite,Sp,PI,SR; healed @ 290.7-291.3'
			291.7				292		0° B,VN,No,No,PI,SR @ 292.3'
							293		0° J,VN,No,No,WA,SR @ 292.9', 297.1', 298.7'
									0° B,VN,No,No,PI,SR @ 293.3', 293.8', 294.0', 294.1'
PQ	54	5.0	5.0	4.4	100	88	294		90° J,T,No,No,PI,SR @ 294.0-294.1'
									80° J,T,UK, Sp,PI,SR; healed @ 294.3-295.0'
							295		
							296		10° J,N,No,No,PI,SR @ 295.4', 295.6'
							297		
							298		grades dark gray @ 297.7'
									highly fractured @ 297.8-298.0'
									0° B,VN,No,No,PI,S @ 298.0'
									5% anhydrite nodules up to 1.3" @ 298.3-298.5'
									highly veined (fractured) w/anhydrite fill, VC @ 298.5-
									299.8'
PQ	55	5.0	5.0	4.8	100	96	299		15° J,VN,No,No,PI,SR @ 298.6'
							300		

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 21 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9'										GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)																																																	
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07																																																	
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																																	
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																								
CORING										CORE SIZE										RUN NUMBER										RUN LENGTH										RUN RECOVERY										RQD RECOVERY										PERCENT RECOVERY										RQD									
										PQ										56										5.0										5.0										5.0										100										100									
										PQ										57										5.0										5.0										4.6										100										92									
										PQ										58										5.0										4.9										4.3										98										86									



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 22 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY Ohlmacher <i>GCO</i>										CHECKED BY Dogbey/Ohlmacher <i>GCO</i>										APPROVED BY Meyer <i>EM</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY			DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD			DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																
									315		265		0°, J, VN, No, No, WA, SR @ 315.1' 0°, B, VN, No, No, PI, SR @ 315.2', 315.8'										starts @ 314.8'																
									316		264																												
			316.7						317		263		DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit E).										Water level @ 21.8' prior to drilling on 06/21/07.																
									318		262		black shale partings @ 318.1-318.3' 0°, B, VN, No, No, PI, SR @ 318.2'																										
PQ	59	5.0	5.0	4.2	100	84			319		261		ANHYDRITE; white to light bluish gray; crystalline; micritic; fresh; very weak; low hardness; thin bedded (up to 3"); intermingled w/DOLOMITE; argillaceous; gray; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit E).																										
									320		260		5°, J, VN, No, No, PI, SR @ 318.5' thin dolomite bed @ 319.5-319.8' highly fractured @ 319.7-319.8' dolomite band @ 320.4-320.6'																										
									321		259		10°, J, VN, No, No, St, SR @ 320.7' 0°, J, VN, anhydrite, Pa, WA, SR @ 320.9'																										
			321.7						322		258		DOLOMITE; gray; (Salina Group - Unit E). highly fractured @ 321.8-321.9' 0°, B, VN, No, No, PI, SR @ 322.1'																										
									323		257		ANHYDRITE; white to light bluish gray; crystalline; micritic; fresh; very weak; low hardness; thin bedded (up to 3"); intermingled w/DOLOMITE; argillaceous; gray; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit E).																										
PQ	60	5.0	5.0	4.9	100	98			324		256		10°, J, T, No, No, PI, SR @ 323.0' 0°, J, VN, No, No, PI, SR @ 323.8', 324.6', 329.2', 329.7', 329.8'																										
									325		255		unknown mineral crystals; very dark grayish brown; up to 0.4" long @ 324.4-324.7'										Core box #29 starts @ 324.7'.																
									326		254		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; interbedded w/ANHYDRITE; white to light gray; bands; (Salina Group - Unit E). 0°, B, VN, No, No, PI, SR @ 325.1'																										
			326.7						327		253		DOLOMITE; light brownish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit E).																										
									328		252		DOLOMITE; gray w/light brownish gray bands; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit E).																										
PQ	61	5.0	5.0	4.3	100	86			329		251		grading dark gray @ 327.0' 0°, B, VN, No, No, PI, SR @ 327.0', 328.4' intermingled w/anhydrite bands @ 328.9-329.1'																										
									330				ANHYDRITE; white to light bluish gray; crystalline;																										

[illegible]



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C8

SHEET 24 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4'		TOTAL DEPTH 471.5 (feet)	
SURFACE CONDITIONS Gravel parking lot near field				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07	
SAMPLING				LOGGED BY Ohlmacher		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS		REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD			
							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	
PQ	65	5.0	5.0	4.7	100	94	345		345.0
							346		235
							347		234
							348		233
							349		232
							350		231
							351		230
							352		229
							353		228
							354		227
							355		226
							356		225
							357		224
							358		223
							359		222
							360		221

DOLOMITE; greenish gray; crystalline; micritic; fresh; strong; hard; banded w/DOLOMITE; argillaceous; dark bluish gray; (Salina Group - Unit C).  
0°, J, VN, No, No, PI, R @ 345.4', 347.8'  
0°, J, N, anhydrite, Pa, PI, SR @ 346.1'  
anhydrite nodules up to 0.7"; white to weak red @ 346.2-346.3'  
10°, J, N, anhydrite, Pa, PI, SR @ 346.4'  
80°, J, T, No, No, PI, SR @ 347.2-347.6'

anhydrite band; white to weak red @ 348.7-348.8'  
0°, J, N, No, No, PI, R @ 348.7'

ANHYDRITE; white to weak red; intermingled w/ dolomite

DOLOMITE; greenish gray; crystalline; micritic; fresh; strong; hard; banded w/DOLOMITE; argillaceous; dark bluish gray; (Salina Group - Unit C).  
90°, J, T, No, No, PI, SR @ 349.5-350.6'  
anhydrite nodules @ 349.7-349.9'

DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).  
90°, J, W, dolomite & argillaceous dolomite clasts in anhydrite, Fi, PI, R; healed @ 351.0-352.6'

DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; banded w/DOLOMITE; argillaceous; dark greenish gray; (Salina Group - Unit C).  
0°, V, MW, anhydrite, Fi, PI, SR; healed @ 352.6'  
70°, V, N, anhydrite, Fi, PI, SR; healed @ 353.3'  
0°, V, W, anhydrite, Fi, PI, SR; healed @ 353.3'  
90°, V, MW, anhydrite, Fi, PI, SR; healed @ 353.7-354.1'  
anhydrite nodules up to 0.5" @ 354.1-354.2'

DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).  
15°, J, VN, No, No, PI, SR @ 354.7', 356.6'  
0°, J, VN, No, No, PI, R @ 356.2'  
0°, V, MW, anhydrite, Fi, PI, SR; healed @ 356.5', 356.7', 357.1'

DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; banded w/very dark gray argillaceous dolomite; (Salina Group - Unit C).

DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive (Salina Group - Unit C).  
0°, J, VN, No, No, PI, R @ 357.8'  
25°, V, MW, anhydrite, Fi, PI, SR; healed @ 358.1-358.2'

Core box #32 starts @ 351.1'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C8

SHEET 25 OF 32

CLIENT				PROJECT				PROJECT NO.				
Detroit Edison				Fermi 3 COL Application				147483				
PROJECT LOCATION				COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH				
Monroe, MI				N 6110.9'		E 4534.4'		580.4 ft (NAVD 88)		471.5 (feet)		
SURFACE CONDITIONS				COORDINATE SYSTEM		DATE START		DATE FINISHED				
Gravel parking lot near field				Plant		06/13/07		06/28/07				
SAMPLING				LOGGED BY		CHECKED BY		APPROVED BY				
				Ohlmacher		Dogbey/Ohlmacher		Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	RQD						
							360		220		DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; banded w/very dark greenish gray argillaceous dolomite; (Salina Group - Unit C).	Core box #33 starts @ 360.1'.
							361		219		DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).	
							362		218		anhydrite band @ 359.0-359.1' anhydrite band @ 359.4-359.5' 0°, J, VN, No, No, PI, R @ 359.7' anhydrite nodules up to 0.5" @ 360.0-360.1' reddish gray dolomite @ 360.1-360.2' anhydrite band @ 360.2'	
PQ	68	5.0	5.0	4.9	100	98	363		217		10°, V, MW, anhydrite, Fi, PI, SR; healed @ 360.3-360.4'	
							364		216		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; very dark greenish gray; (Salina Group - Unit C).	
							365		215		0°, J, VN, No, No, St, SR @ 362.5-362.6'	
							366		214		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; w/anhydrite bands; (Salina Group - Unit C).	
							367		213		10°, J, VN, No, No, PI, SR @ 363.3', 364.8' anhydrite nodules @ 363.6-363.7', 363.8-364.4'	
							368		212		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; very dark greenish gray; (Salina Group - Unit C).	
PQ	69	5.0	5.0	5.0	100	100	369		211		0°, V, MW, anhydrite, Fi, PI, SR; healed @ 364.5', 365.3', 366.3' thin white to weak red anhydrite bed @ 364.8-365.1'	
							370		210		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).	
							371		209		thin reddish gray dolomite bed @ 365.5-365.8' reddish gray dolomite band @ 366.0-366.2'	
							372		208		40° V, N, anhydrite, Fi, PI, SR; healed @ 366.3-366.4'	Core box #34 starts @ 369.8'.
							373		207		ANHYDRITE; intermingled w/dolomite; (Salina Group - Unit C).	
							374		206		0°, J, VN, No, No, PI, SR @ 366.8'	
PQ	70	5.0	5.0	4.8	100	96	375				DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).	
											20° V, N, anhydrite, Fi, PI, SR; healed @ 367.4-367.5' 0° J, VN, No, No, PI, R @ 367.4', 371.0' 30° V, N, anhydrite, Fi, PI, SR; healed @ 367.7-367.8'	
											DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; dark greenish gray & anhydrite beds; (Salina Group - Unit C).	
											DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).	
											DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; massive; alternating w/DOLOMITE;	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 26 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9'										GROUND ELEVATION (DATUM) E 4534.4'										TOTAL DEPTH 471.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY Ohlmacher <i>600</i>										CHECKED BY <i>600</i> Dogbey/Ohlmacher										APPROVED BY <i>fm</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
PQ	71	5.0	5.0	5.0	100	100	375		205		crystalline; dark greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit C). 10° J,N,anhydrite,Fi,PI,R @ 369.7' 90° J,T,anhydrite,Sp,PI,SR @ 370.0-370.8' 80° V,N,anhydrite,Fi,PI,SR; healed @ 370.5-370.8', 371.2-371.4' sand & gravel sized clasts of dolomite in fining upward sequences; indurated @ 370.8-371.1' 90° V,N,anhydrite,Fi,PI,R; healed @ 371.5-372.5', 372.8-374.2' highly fractured @ 371.7-371.8' 25° V,N,anhydrite,Fi,PI,SR; healed @ 372.3-372.4' 20° V,N,anhydrite,Fi,PI,SR; healed @ 372.4-372.5'										Core box #35 starts @ 378.6'.																		
							376		204																														
							377		203																														
							378		202																														
							379		201																														
							380		200																														
							381		199																														
PQ	72	5.0	4.9	4.8	98	96	382		198		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; dark bluish gray; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 373.9 0° V,N,anhydrite,Fi,St,SR; healed @ 374.3-374.4'										Water level @ 22.1' prior to drilling on 06/26/07.																		
							383		197																														
							384		196																														
							385		195																														
							386		194																														
							387		193																														
							388		192																														
PQ	73	5.0	5.0	5.0	100	100	389		191		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded w/zones of anhydrite nodules spaced 0.3' apart; zone thickness 0.1'; nodule size up to 3" long; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 381.6' 15° V,N,anhydrite,Fi,PI,SR; healed @ 381.9' 55° V,N,anhydrite,Fi,PI,SR; healed @ 384.0-384.4', 385.0-385.3' anhydrite band @ 386.9-387.1' 90° J,T,No,No,PI,SR @ 387.1-387.5', 389.1-389.7'										Core box #36 starts @ 388.0'.																		
							390																																

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 27 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9'										GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY Ohlmacher GCO										CHECKED BY Dogbey/Ohlmacher GCO										APPROVED BY Meyer SM									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
PQ	74	5.0	5.0	5.0	100	100	390		190		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; banded w/anhydrite; white to very dark gray; (Salina Group - Unit C). 90° V,N,anhydrite,Fi,PI,SR; healed @ 389.4-389.7'																												
							391		189		DOLOMITE; banded grayish brown, dark bluish gray & brown; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit C). 0° V,N,anhydrite,Fi,PI,SR; healed @ 390.1' 0° J,VN,No,No,PI,SR @ 390.3'																												
							392		188		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded; anhydrite nodules; (Salina Group - Unit C). 0° V,N,anhydrite,Fi,WA,SR; healed @ 392.6' brownish gray; banded w/anhydrite @ 392.7-393.0' 0° B,T,No,No,PI,S @ 392.9' anhydrite band @ 393.3-393.4', 394.7-394.8'																												
							393		187		0° J,VN,No,No,PI,SR @ 394.7',395.8' 0° V,MW,anhydrite,Fi,PI,SR; healed @ 394.9'																												
							394		186		ANHYDRITE; intermingled w/DOLOMITE; (Salina Group - Unit C).																												
							395		185		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded; anhydrite nodules; (Salina Group - Unit C).																												
							396		184		DOLOMITE; banded dark bluish gray & brown; crystalline; micritic; fresh; strong; hard; anhydrite band near upper & lower contacts; (Salina Group - Unit C).																												
							397		183		DOLOMITE; banded dark bluish gray & dark greenish gray; crystalline; micritic; fresh; strong; hard; anhydrite nodules; dark bluish gray shale partings; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 397.6' 0° V,MW,anhydrite,Fi,PI,SR; healed @ 398.7' 0° J,VN,No,No,PI,SR @ 398.8'										Core box #37 starts @ 397.8'.																		
							398		182																														
							399		181																														
							400		180																														
							401		179																														
							402		178																														
							403		177																														
							404		176																														
							405																																

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 28 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6110.9'		GROUND ELEVATION (DATUM) E 4534.4'		580.4 ft (NAVD 88)		TOTAL DEPTH 471.5 (feet)		
SURFACE CONDITIONS Gravel parking lot near field						COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/28/07		
SAMPLING						LOGGED BY Ohlmacher <i>Geo</i>		CHECKED BY <i>Geo</i> Dogbey/Ohlmacher		APPROVED BY <i>Em</i> Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							405		175		black shale partings interbedded w/dolomite @ 405.1-405.2'	
							406		174			Core box #38 starts @ 406.4'.
			406.7				407		173		90° J,T,No,No,PI,SR @ 407.4-407.8'	
							408		172		0° J,VN,No,No,PI,SR @ 407.4',408.4',410.0'	
							409		171		60° J,T,No,No,PI,SR @ 407.4-407.6'	
PQ	77	5.0	5.0	4.9	100	98	410		170		anhydrite intermingled w/brown dolomite @ 408.2-408.4'	
							411		169		0° V,N,anhydrite,Fi,PI,SR @ 409.2'	
							412		168		anhydrite intermingled w/brown dolomite @ 409.3-409.6'	
							413		167		DOLOMITE; brown; crystalline; micritic; fresh; strong; hard; banded; 4" anhydrite bed; (Salina Group - Unit C).	
							414		166		0° V,N,anhydrite,Fi,PI,SR @ 410.1'	
							415		165		0° J,VN,No,No,PI,SR @ 410.9'(2 joints), 411.9'(2 joints)	
PQ	78	5.0	5.0	5.0	100	100	416		164		DOLOMITE; dark greenish gray; crystalline; micritic; strong; hard; banded; w/some dark greenish gray shale partings; (Salina Group - Unit C).	
							417		163		DOLOMITE; brown & bluish gray; crystalline; micritic; fresh; strong; hard; banded; w/anhydrite intermingled w/brown dolomite beds near upper & lower contacts; (Salina Group - Unit C).	
							418		162		45° J,T,No,No,PI,SR @ 412.9-413.1'	
							419		161		anhydrite nodules @ 413.1-413.4'	
							420				DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; banded w/dark greenish gray argillaceous dolomite; (Salina Group - Unit C).	Core box #39 starts @ 415.2'.
											anhydrite nodules @ 414.8-415.0'	
											anhydrite nodules @ 415.9-416.1'	
											anhydrite nodules @ 416.6-416.8'	
											anhydrite nodules @ 417.0-417.1'	
											anhydrite nodules @ 417.8-418.0'	
PQ	79	5.0	5.0	5.0	100	100					anhydrite nodules @ 418.2-418.6'	
											anhydrite intermingled w/dark greenish gray dolomite @ 419.5-419.8'	

CLIENT										PROJECT										SHEET 29 OF 30																			
Detroit Edison										Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																								
Monroe, MI					N 6110.9'					E 4534.4'					580.4 ft (NAVD 88)					471.5 (feet)																			
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																			
Gravel parking lot near field										Plant					06/13/07					06/28/07																			
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																			
										Ohlmacher					Dogbey/Ohlmacher					Meyer																			
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS				
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD													



CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6110.9'		E 4534.4'	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot near field		Plant		06/13/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Ohlmacher		Meyer	
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES	
2ND 6 INCHES		3RD 6 INCHES		N VALUE	
SAMPLE RECOVERY					
CORING		DEPTH (FEET)		SAMPLE TYPE	
CORE SIZE		ELEVATION (FEET)		GRAPHIC LOG	
RUN NUMBER				CLASSIFICATION OF MATERIALS	
RUN LENGTH				REMARKS	
RUN RECOVERY					
RQD					
PERCENT RECOVERY					
RQD					
			435	145	DOLOMITE; brown; micritic; fresh; strong; hard; banded; intermingled w/ANHYDRITE; white to very dark gray; (Salina Group - Unit B).
			436	144	0°, J, VN, No, No, PI, SR @ 435.5', 436.3'
			437	143	DOLOMITE; dark greenish gray to very dark gray mottled; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit B). anhydrite nodules @ 437.2-437.8'
			438	142	DOLOMITE; banded dark greenish gray to very dark gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B).
PQ	83	5.0	439	141	0°, V, MW, anhydrite, Fi, PI, SR; healed @ 438.0' anhydrite nodules @ 438.3-438.5'
			440	140	0°, V, N, anhydrite, Fi, WA, SR; healed @ 438.4', 438.6', 439.3'
			441	139	anhydrite band @ 438.9-439.1' contorted bedding @ 439.1-439.5' anhydrite nodules @ 439.2-439.5' anhydrite band @ 439.5-439.6'
			442	138	0°, J, VN, No, No, PI, SR @ 439.7' anhydrite nodules @ 439.9-440.3' 15°, J, VN, No, No, PI, SR @ 440.2'
			443	137	DOLOMITE; light brownish gray; crystalline; intermingled w/ANHYDRITE; white to gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit B).
			444	136	DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; banded; w/greenish gray shale partings; (Salina Group - Unit B). contorted bedding @ 442.0-442.6' anhydrite nodule; 3"+ in length @ 442.2-442.4'
PQ	84	5.0	445	135	0°, J, VN, No, No, PI, SR @ 443.1' anhydrite band @ 443.2-443.3'
			446	134	DOLOMITE; banded brown to light brownish gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B).
			447	133	0°, J, VN, No, No, PI, SR @ 444.1', 446.2' anhydrite nodules @ 444.6-444.8' intermingled anhydrite & dolomite @ 444.9-445.2'
			448	132	bands up to 3.5" thick; anhydrite; brown; & crystalline dolomite; brown @ 446.5-447.2'
			449	131	grades light brownish gray @ 447.2' 0°, B, VN, No, No, PI, S @ 447.6', 448.4', 449.0', 449.9'
PQ	85	5.0	450		stylolites @ 449.5-449.6'

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 31 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY Ohlmacher <i>Geo</i>										CHECKED BY <i>Geo</i> Dogbey/Ohlmacher										APPROVED BY <i>Geo</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																
PQ	86	5.0	5.0	4.7	100	94		450		130		DOLOMITE; banded dark greenish gray to light olive gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B). 0°, B, VN, No, No, PI, SR @ 451.1', 451.4' grades mottled light olive gray & light brownish gray @ 451.2'										Core box #43 starts @ 451.1'.																	
								451		129																													
								452		128		DOLOMITE; banded pale brown, gray & dark brown; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B). 0°, B, VN, No, No, PI, SR @ 452.5', 453.8' anhydrite band 0.3" thick @ 452.7' anhydrite intermixed w/brown dolomite @ 452.8-453.2'																											
								453		127																													
								454		126																													
								455		125		0°, B, VN, No, No, PI, SR @ 454.8'																											
								456		124		0°, B, VN, No, No, PI, SR @ 455.6'																											
								457		123		anhydrite bands 0.3" thick interbedded w/brown dolomite @ 456.3-456.8' 10°, J, VN, No, No, WA, SR @ 456.6'																											
								458		122		0°, B, VN, No, No, PI, SR @ 457.7'																											
PQ	87	5.0	5.0	4.5	100	90		459		121		grades dark gray @ 458.7'																											
								460		120																													
								461		119		convoluted bedding; shale partings increasing @ 460.6-461.1' 0°, B, VN, No, No, PI, SR @ 461.2'																											
								462		118		DOLOMITE; dark brown; crystalline; micritic; fresh; strong; hard; massive; w/brown crystalline dolomite clasts; & shale partings; (Salina Group - Unit B). 0°, B, VN, No, No, PI, SR @ 461.5'																											
								463		117		DOLOMITE; dark gray; crystalline; micritic; fresh; strong; hard; banded; & shale partings; (Salina Group - Unit B). anhydrite; intermingled w/brown dolomite @ 462.4-462.6' 0°, J, VN, No, No, PI, SR @ 462.7'																											
PQ	88	5.0	5.0	4.6	100	92		464		116																													
								465				DOLOMITE; banded dark brown, brown & gray;																											

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 32 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9'										GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)										TOTAL DEPTH 471.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near field										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/28/07									
SAMPLING										LOGGED BY Ohlmacher <i>GOO</i>										CHECKED BY <i>Z. Meyer</i> Dogbey/Ohlmacher <i>GOO</i>										APPROVED BY <i>Em</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
PQ	89	5.0	4.8	4.8	96	96	465		115		crystalline; micritic; fresh; strong; hard; w/anhydrite bands; (Salina Group - Unit B). 0°, J, VN, anhydrite, Pa, Pl, R @ 463.1'																												
							466		114		DOLOMITE; dark brown; crystalline; micritic; fresh; strong; hard; massive; w/brown crystalline dolomite clasts; & shale partings; (Salina Group - Unit B). 20°, J, VN, No, No, Pl, R @ 463.7'										463.5																		
							467		113		ANHYDRITE; white to bluish black; micritic; fresh; strong; moderately hard; intermingled w/brown to dark brown crystalline dolomite; (Salina Group - Unit B). 20°, J, VN, No, No, WA, R @ 465.4'										465.1																		
							468		112		0°, J, VN, No, No, Pl, SR @ 466.3'										466.8																		
							469		111		DOLOMITE; banded dark brown & brown; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit B). greenish black @ 468.2-469.2'										466.8																		
							470		110																														
							471		109																														
							472		108																														
							473		107																														
							474		106																														
							475		105																														
							476		104																														
							477		103																														
							478		102																														
							479		101																														
							480																																

Core box #45 starts @ 468.5'.

Bottom of boring @ 471.5'. Water level @ 19.8' @ completion of drilling. Boring blocked @ 248.0'. Boring cleared to 470' & backfilled w/ bentonite chips to 170' on 09/18/07.

Boring backfilled w/bentonite chips to 40' on 09/19/07. Boring backfilled w/ bentonite chips and gravel to surface on 09/21/07.

**BLACK & VEATCH**

## BORING LOG

**BORING NO. RB-C9**

SHEET 1 OF 19

CLIENT						PROJECT						SHEET NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH				
Monroe, MI			N 6112.4'			E 4616.0'			580.9 ft (NAVD 88)			270.5 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM			DATE START		DATE FINISHED		
Gravel parking lot near laydown area						Plant			06/14/07		07/15/07		
SAMPLING						LOGGED BY			CHECKED BY			APPROVED BY	
						Grainger/Bonnie TB			Dogbey/Bonnie TB			Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							0				COBBLES - About 65% angular to elongated, very hard cobble w/max size 10"; about 15% fine to coarse, angular, hard gravel w/max size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark gray; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
							1	580					
							2	579					
							3	578					
S	1		3.0			1.5	4	577				Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample collected from S1.	
							5	576					
							6	575					
							7	574					
S	1A		5.0			0	8	573					
							9	572					
							10	571					
							11	570					
							12	569					
							13	568					
							14	567					
S	2		10.0			2.0	15	566			Discrete sample collected from S2 @ 14.7-15.0'		



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C9

SHEET 2 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																																																																																													
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/15/07																																																																																													
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																																																																													
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																					
CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																																					
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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C9

SHEET 3 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																																															
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/15/07																																															
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																															
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S 6										30										550																														temporary steel casing advanced w/sampler. Sonic core stored in box.																											
HQ 1 2.0 2.0 0.0 100 0										31										549																																																									
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C9

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																															
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HQ	4	5.0	5.0	4.25	100	85	45								10° J,T,No,No,PI,R @ 45.5', 45.6'																																																																																				
							46								0° J,T,No,No,PI,SR @ 46.0'																																																																																				
							47								DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0° J,T,No,No,PI,SR @ 47.0' 30° J,T,No,No,PI,SR @ 47.2-47.5' 50° J,T,No,No,PI,R @ 47.3-47.4' 60° J,T,No,No,PI,SR @ 47.6-47.8'	Core box #2 starts @ 46.5'																																																																																			
							48								0° J,T,No,No,PI,SR @ 48.4' 90° J,VN,No,No,PI,R @ 48.5-48.6' (surface) 0° J,T,No,No,PI,SR @ 49.0', 49.8' 90° V,N,UK,Fi,R @ 49.1-49.2'																																																																																				
							49																																																																																												
							50								0° J,T,No,No,PI,SR @ 50.1', 50.2', 50.4'																																																																																				
							51								DOLOMITE; oolitic; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 0° J,T,No,No,PI,R @ 50.6', 51.1', 51.7'																																																																																				
							52																																																																																												
HQ	5	5.0	5.0	3.3	100	66	53								DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Island Group). 30° J,T,No,No,WA,R @ 52.9'																																																																																				
							54								DOLOMITE; gray & dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group). shale; thin bedded @ 53.2'																																																																																				
							55								DOLOMITE; oolitic; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 0° J,T,No,No,PI,R @ 53.6', 54.2', 54.8'																																																																																				
							56																																																																																												
							57								BRECCIA; healed; light gray; very coarse grained to micritic; fresh; strong; hard; fining upward zones from coarse grained to laminar/convoluted bedding; (Bass Islands Group). 0° J,T,No,No,PI,SR @ 56.2', 56.4' 0° J,VN,No,No,WA,R @ 56.6', 56.8', 57.1' fractured @ 57.1-57.2', 57.7-57.8' 90° J,T,No,No,WA,SR @ 58.0-58.4' 40° J,T,No,No,PI,R @ 58.4-58.5'																																																																																				
HQ	6	5.0	5.0	2.35	100	47	58								0° J,T,No,No,PI,SR @ 58.9', 59.7', 59.9'																																																																																				
							59								0.02' thick black shale parting @ 59.4'																																																																																				
							60																																																																																												

**BLACK & VEATCH**

## BORING LOG

**BORING NO. RB-C9**

SHEET 5 OF 19

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6112.4'					E 4616.0'					580.9 ft (NAVD 88)					270.5 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel parking lot near laydown area										Plant					06/14/07					07/15/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Gibbs for Grainger/Bonnie TB					Bm Dodgey/Bonnie TB					Em Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																							
								60				DOLOMITE; dark gray; micritic; fresh; strong; hard; w/shale partings & stylolites; (Bass Islands Group).										Core box #3 starts @ 60.3'.							
HQ	7	0.3	60.5 0.3 60.8	0.0	100	0		61		520		0°, J, VN, No, No, PI, SR @ 61.4' 0°, J, VN, No, No, WA, SR @ 61.5' 10°, J, VN, UK, Pa, SR @ 61.7-61.75' 0°, J, VN, No, No, PI, SR @ 62.2', 62.6', 62.8'																	
HQ	8	4.7	4.7	2.4	100	51		62		519																			
								63		518		0°, J, VN, No, No, PI, SR @ 63.1', 63.3', 63.4', 63.5' grades grayish brown @ 63.2' 25°, J, VN, No, No, WA, SR @ 63.35-63.4'  0°, J, VN, No, No, PI, SR @ 64.1', 64.5', 64.6', 65.1'											No drilling fluid return @ 63.0'.						
								64		517																			
								65		516																			
			65.5					66		515		0°, J, VN, UK, Sp, PI, SR @ 66.0' 0°, J, VN, No, No, PI, SR @ 66.2' grades dark gray @ 66.5' grades grayish brown @ 66.8' 0°, J, VN, No, No, PI, SR @ 67.0', 67.3' 60°, J, VN, No, No, WA, SR @ 67.15-67.25'										Water level @ 20.3' prior to drilling on 07/12/07.							
HQ	9	5.0	5.0	4.3	100	86		67		514																			
								68		513		0°, J, VN, No, No, WA, SR @ 68.4'																	
								69		512																			
								70		511		0°, J, N, UK, Pa, R @ 69.6'																	
			70.5					71		510																			
								72		509		45°, J, T, No, No, PI, SR @ 71.6-71.8' 50°, J, T, No, No, PI, SR @ 72.0-72.15'																	
HQ	10	5.0	5.0	NR	100	NR		73		508																			
								74		507		0°, J, VN, No, No, PI, SR @ 73.7'										Core box #4 starts @ 73.7'.							
								75		506																			





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## BORING LOG

BORING NO. RB-C9

SHEET 6 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6112.4'		GROUND ELEVATION (DATUM) E 4616.0'		TOTAL DEPTH 270.5 (feet)				
SURFACE CONDITIONS Gravel parking lot near laydown area				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/15/07				
SAMPLING				LOGGED BY Grainger/Bonnie <sup>TB</sup>		CHECKED BY Dogbey/Bonnie <sup>TB</sup>		APPROVED BY Meyer <sup>EM</sup>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	11	5.0	5.0	4.6	100	92	75				0°, J, VN, No, No, PI, SR @ 75.2', 75.4'	
			75.5				76		505		90°, J, T, No, No, PI, SR @ 75.2-75.4'	
							77		504		0°, J, VN, No, No, PI, SR @ 76.5', 77.8', 78.2'	
							78		503			
							79		502		0°, J, T, No, No, WA, SR @ 78.7'	
											20°, J, T, No, No, PI, SR (weathered) @ 79.15-79.2'	
							80		501			
			80.5				81		500		BRECCIA; indurated; dolomite; partially fining upward sequence; light gray; very coarse grained to micritic; fresh; strong; hard; fining upward from very coarse grained; w/curved bedding; (Bass Islands Group). 10°, J, T, No, No, WA, R @ 79.75', 80.3-80.35'	
							82		499		mottled dolomite @ 80.2-80.5'	
											SHALE; dark gray; micritic; fresh; moderately hard; weak; (Bass Islands Group).	
							83		498		DOLOMITE; dark gray; micritic; fresh; strong; hard; (Bass Islands Group). 10°, J, T, No, No, WA, SR @ 80.7', 81.0', 81.1', 81.2'	
HQ	12	5.0	5.0	2.0	100	40	84		497		0°, J, VN, UK, Sp, PI, R @ 81.3', 83.5', 83.8'	
											90°, J, T, No, No, PI, R @ 81.3-82.0'	
											grades grayish brown @ 81.6'	
											fractured @ 81.8-82.5'	
							85		496		80°, J, T, No, No, PI, R @ 84.5-85.2'	
											70°, J, T, No, No, PI, SR @ 84.6-84.7'	
											20°, J, VN, UK, Sp, WA, SR @ 84.95-85.1'	
			85.5				86		495		highly fractured @ 85.5-86.1'	
											90°, J, T, No, No, WA, SR @ 86.1-86.5'	
							87		494		70°, J, T, No, No, PI, SR @ 86.3-86.5'	
											0°, J, VN, CI, FI, PI, SR @ 86.5'	
											0°, J, VN, No, No, PI, SR @ 86.6'	
HQ	13	5.0	5.0	2.9	100	58	88		493		30°, J, T, No, No, WA, SR @ 87.45-87.55', 89.4-89.6'	
							89		492			
							90		491			

Core box #5 starts @ 86.6'.

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BORING NO. RB-C9

SHEET 7 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																																																	
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/15/07																																																	
SAMPLING										LOGGED BY Grainger/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																	
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																								
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	CORING																																																														
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																									
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C9

SHEET 8 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6112.4'					GROUND ELEVATION (DATUM) E 4616.0'					TOTAL DEPTH 270.5 (feet)						
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant					DATE START 06/14/07			DATE FINISHED 07/15/07			
SAMPLING										LOGGED BY Granger/Bonnie					CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
							105														
			105.5				106		475		highly fractured @ 105.5-105.8' clay @ 105.6-105.7' 0°, J, T, No, No, WA, SR @ 105.8' 60°, J, T, No, No, PI, SR @ 106.0-106.6', 106.4-106.9'										
							107		474		90°, J, T, No, No, WA, SR @ 106.9-107.5' 30°, J, T, No, No, Ir, SR @ 107.3-107.5' 0°, J, T, No, No, WA, SR @ 107.5' 60°, J, T, Cl, Pa, WA, SR @ 107.7-108.8' 0°, J, T, No, No, Ir, SR @ 107.8'										
HQ	17	5.0	5.0	2.6	100	52	108		473												
							109		472		anhydrite filled vug @ 109.1' 10°, J, T, No, No, WA, SR @ 109.25'										
							110		471												
			110.5				111		470		fractured @ 111.1-111.3' 80°, J, T, No, No, PI, SR @ 111.3-112.5' 0°, J, T, No, No, PI, SR @ 111.3', 112.1', 112.3'										
							112		469												
HQ	18	5.0	4.5	1.9	90	38	113		468		DOLOMITE; light gray; fresh; strong; hard; (Salina Group - Unit F). calcite vugs @ 112.5' 10°, J, T, UK, Pa, PI, SR @ 113.0'										
							114		467		SHALE; black; coarse grained to micritic; (Salina Group - Unit F).										
							115		466		DOLOMITE; light gray; fresh; strong; hard; (Salina Group - Unit F). 10°, J, T, No, No, Ir, SR @ 115.0'										
			115.5				116		465		clay @ 115.7-115.9' highly fractured @ 115.9-116.0' 90°, J, VN, No, No, Ir, SR @ 116.0-116.2' 0°, J, VN, No, No, PI, SR @ 116.4', 116.6', 116.7', 116.95', 117.15'										
							117		464		fractured @ 117.2-117.4'										
HQ	19	4.6	3.8	0.0	83	0	118		463		DOLOMITE; argillaceous; very dark grayish brown; very fine grained; strong; hard; w/some anhydrite bedding & shale parting; (Salina Group - Unit F).					Core box #7 starts @ 115.5'.					
							119		462		anhydrite beds (0.2" thick) @ 118.8-119.5' 10°, J, T, No, No, PI, SR @ 119.0', 119.2'										
							120		461		fractured @ 119.5-120.1'										

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C9****SHEET 9 OF 19**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/15/07									
SAMPLING										LOGGED BY Grainger/Bonnie <sup>TS</sup>										CHECKED BY Dogbey/Bonnie <sup>TS</sup>										APPROVED BY E. Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
HQ	20	0.4	120.1 0.4 120.5	0.33	100	83	120				0°,J,N,CI,Fi,PI,SR @ 120.35'																												
							121		460		0°,J,VN,No,No,PI,SR @ 121.2'																												
							122		459		0°,B,MW,anhydrite,Fi,PI,SR @ 121.5'																												
HQ	21	5.0	3.0	0.6	60	12	123		458		DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																												
							124		457		LIMESTONE; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																												
							125		456		CLAYSTONE; bluish gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).																												
			125.5				126		455		LIMESTONE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																												
HQ	22	5.0	2.6	0.0	52	0	127		454		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																												
							128		453		CLAYSTONE; bluish gray; slightly weathered; weak; low hardness; w/interbedded dolomite; (Salina Group - Unit F).																												
							129		452		highly fractured @ 129.5-129.9'																												
							130		451																														
			130.5				131		450												Water level @ 21.9' prior to drilling on 07/13/07.																		
							132		449		dolomite @ 131.7-132.0'																												
							133		448		80°,J,T,No,No,PI,R @ 131.7-132.0'																												
HQ	23	5.0	4.3	0.0	86	0	134		447		grades w/interbedded limestone; no dolomite @ 133.0'																												
							135		446		DOLOMITE; grayish brown; micritic; fresh; very strong; hard; (Salina Group - Unit F).										Core box #8 starts @ 133.8'.																		

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C9****SHEET 10 OF 19**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6112.4' E 4616.0'				GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot near laydown area				COORDINATE SYSTEM Plant				DATE START 06/14/07		DATE FINISHED 07/15/07		
SAMPLING				LOGGED BY Grainger/Bonnie				CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							135				anhydrite bedding @ 134.9'	
			135.5								90°, J, T, No, No, PI, SR @ 135.2-135.5'	
							136		445			
							137		444		CLAYSTONE; bluish gray; weak; low hardness; w/ interbedded dolomite; (Salina Group - Unit F).	
HQ	24	5.0	2.0	0.0	40	0	138		443			
							139		442			
							140		441		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). highly fractured @ 139.5-139.8'	
			140.5								60°, J, T, No, No, PI, SR @ 140.0-140.4'	
							141		440		CLAYSTONE; bluish gray; weak; low hardness; w/ interbedded dolomite; (Salina Group - Unit F).	
							142		439			
HQ	25	5.0	4.4	0.0	88	0	143		438			Discrete sample 8A taken from HQ-25 @ 142.75-143.5'.
							144		437			
							145		436			Discrete sample 8B taken from HQ-25 @ 144.3-144.7'.
							146		435		DOLOMITE; gray; micritic; strong; hard; (Salina Group - Unit F).	
			145.5								CLAYSTONE; bluish gray; weak; low hardness; w/ interbedded dolomite; (Salina Group - Unit F).	
							147		434		clay; soft @ 146.8-147.6'	
											fractured @ 147.3-147.7'	
HQ	26	5.0	3.0	0.0	60	0	148		433			Discrete sample 8C taken from HQ-26 @ 146.9-147.5'.
							149		432		fractured @ 148.2-149.0'	
							150		431			

**BLACK & VEATCH**

## BORING LOG

**BORING NO. RB-C9**

SHEET 11 OF 19

CLIENT		Detroit Edison				PROJECT				Fermi 3 COL Application				PROJECT NO.		147483															
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH																			
Monroe, MI				N 6112.4'				E 4616.0'				580.9 ft (NAVD 88)				270.5 (feet)															
SURFACE CONDITIONS								COORDINATE SYSTEM				DATE START				DATE FINISHED															
Gravel parking lot near laydown area								Plant				06/14/07				07/15/07															
SAMPLING								LOGGED BY				CHECKED BY				APPROVED BY															
								Grainger/Bonnie				Dogbey/Bonnie				Meyer															
CORING								DEPTH (FEET)				SAMPLE TYPE				ELEVATION (FEET)				GRAPHIC LOG				CLASSIFICATION OF MATERIALS				REMARKS			
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																			
HQ		27		0.7		150.5		0.1		0.0		14		0																	
						151.2																									
HQ		28		4.3		4.0		1.9		93		44																			
						155.5																									
HQ		29		5.0		4.9		1.7		98		34																			
						160.5																									
HQ		30		5.0		2.1		0.0		42		0																			

150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C9

SHEET 12 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6112.4'		GROUND ELEVATION (DATUM) E 4616.0'		TOTAL DEPTH 270.5 (feet)				
SURFACE CONDITIONS Gravel parking lot near laydown area				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/15/07				
SAMPLING				LOGGED BY <i>for TB</i> Grainger/Bonnie		CHECKED BY <i>for TB</i> Dogbey/Bonnie		APPROVED BY <i>for</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	31	5.0	2.3	0.0	46	0	165				weak; low hardness; (Salina Group - Unit F).	
			165.5				166		415		clay; soft @ 166.5-166.9'	
							167		414		fractured @ 167.4-167.8'	
							168		413		gray @ 168.7-169.9'	
							169		412		fractured @ 169.9-170.4'	
							170		411			
HQ	32	2.5	1.25	0.0	50	0	171		410		CLAYSTONE; bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).	Core box #10 starts @ 170.5'. Water level @ 21.8' prior to drilling on 07/14/07. PP = 0.6 TSF @ 171.5-171.8'.
							172		409		clay; soft @ 171.5-171.8'	
							173		408			
HQ	33	2.5	0.7	0.0	28	0	174		407		BRECCIA; poorly indurated to indurated claystone matrix; gray; weathered; very weak; low hardness; w/ clasts of shaley dolomite; pale brown; micritic; low hardness; & limestone; greenish gray; micritic; (Salina Group - Unit F).	
							175		406			
							176		405		dolomite; pale brown @ 175.6-176.0'	
							177		404		90°, J, T, No, No, PI, SR @ 175.6-176.0'	
HQ	34	2.5	2.1	0.0	84	0	178		403		limestone; greenish gray @ 176.0-176.3'	
							179		402		60°, J, VN, No, No, PI, SR @ 176.1-176.3'	
							180		401		0°, V, MW, Ca, Fi, PI, R @ 178.2'	
HQ	35	2.5	1.2	0.0	48	0					limestone band @ 179.1-179.3'	
											claystone band @ 179.3-179.4'	



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C9

SHEET 13 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6112.4' E 4616.0'				GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)				TOTAL DEPTH 270.5 (feet)	
SURFACE CONDITIONS Gravel parking lot near laydown area						COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/15/07			
SAMPLING						LOGGED BY Grainger/Bonnie <sup>773</sup>		CHECKED BY Dogbey/Bonnie <sup>78</sup>		APPROVED BY Meyer <sup>SM</sup>			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	36	2.5	0.5	0.0	20	0	180		180.1		LIMESTONE; (Salina Group - Unit F).		
							181	400			BRECCIA; poorly indurated to indurated claystone matrix; gray; micritic; weathered; very weak; low hardness; w/clasts of shaley dolomite; pale brown; micritic; low hardness; & limestone; greenish gray; micritic; (Salina Group - Unit F). limestone band @ 181.0-181.2'		
							182	399			limestone band @ 182.4-182.5'		
							183	398					
HQ	37	2.5	2.3	0.0	92	0	184	397	184.0		DOLOMITE; (Salina Group - Unit F). 90° J,VN,UK,FI,PI,SR @ 184.1-184.3' 20° J,N,UK,FI,PI,SR @ 184.3-184.4'	Discrete sample 10A taken from HQ-37 @ 184.5-185.0'.	
							185	396	184.5		BRECCIA; poorly indurated to indurated claystone matrix; gray; weathered; very weak; low hardness; w/ clasts of shaley dolomite; pale brown; micritic; low hardness; & limestone; greenish gray; micritic; (Salina Group - Unit F). dolomite @ 185.2-185.5'		
HQ	38	2.5	1.5	0.0	60	0	186	395					
							187	394				Discrete sample 10B taken from HQ-38 @ 186.7-187.3'.	
							188	393					
HQ	39	2.5	1.2	0.0	48	0	189	392					
							190	391	189.7		LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							191	390					
HQ	40	2.5	0.5	0.0	20	0	192	389					
							193	388			grades grayish brown @ 193.0'	Core box #11 starts @ 193.0'.	
							194	387	194.0		DOLOMITE; (Salina Group - Unit F).		
HQ	41	2.5	2.0	0.0	80	0	195	386	194.6		CLAY; (Salina Group - Unit F).		



**BLACK & VEATCH****BORING LOG****BORING NO. RB-C9****SHEET 14 OF 19**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6112.4' E 4616.0'				GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)				TOTAL DEPTH 270.5 (feet)	
SURFACE CONDITIONS Gravel parking lot near laydown area						COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/15/07			
SAMPLING						LOGGED BY Grainger/Bonnie		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	42	2.0	2.0	0.0	100	0	195		195.0		LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
			195.5				196		195.5		CLAYSTONE; calcareous; micritic; slightly weathered; weak; low hardness; (Salina Group - Unit F). completely weathered; soft (clay like) @ 195.8-196.4', 197.1-197.3'		
							197						
			197.5				198				clay bands @ 197.5-197.7', 197.9-198.1'		
HQ	43	3.0	3.0	1.0	100	33	199				brecciated dolomite band @ 198.4'	Discrete sample 11A taken from HQ-43 @ 198.5-199.0'.	
							200				highly fractured @ 199.5-200.0'		
			200.5				201						
							202				LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).		
HQ	44	5.0	2.5	0.8	50	16	203				0°, J, VN, Ca, Pa, PI, SR @ 203.0'		
							204						
							205					Driller reported a sudden drop of about 1' of the drill rod @ 204.5'.	
			205.5				206				DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). fractured @ 205.7-206.7'		
							207				clay band; white @ 206.7-206.8; 207.1-207.25'		
HQ	45	5.0	4.1	0.0	82	0	208				60°, J, T, No, No, PI, SR @ 207.4-207.5' 20°, J, T, No, No, PI, SR @ 207.5-207.6'		
							209				10°, J, T, No, No, PI, SR @ 208.1' 90°, J, VN, Cl, Pa, PI, SR @ 208.15-208.35' 30°, J, VN, Cl, Pa, PI, SR @ 208.2-208.3'		
							210				LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). clay; white @ 209.25-209.35'		

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C9

SHEET 15 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/15/07									
SAMPLING										LOGGED BY Grainger/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
								210				20°J,T,No,No,PI,SR @ 209.3' 90°J,T,No,No,PI,SR @ 209.65-209.8', 210.0-210.3'										Core box #12 starts @ 210.5'.																	
								211				DOLOMITE; shale; light brownish gray; micritic; fresh; strong; hard; w/fossil layers; (Salina Group - Unit F). 0°J,VN,Ca,Sp,PI,SR @ 210.7', 210.8', 210.9' 0°J,VN,No,No,Ir,SR @ 211.1', 211.5'																											
								212				BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/dolomite clasts; (Salina Group - Unit F).																											
HQ	46	5.0	3.2	1.9	64	38		213				DOLOMITE; shale; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°J,VN,No,No,Ir,SR @ 211.8', 212.3'																											
								214				BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/shaley dolomite clasts; (Salina Group - Unit F).										Driller reported about 1.0' drop of drill rod @ 213.0-214.0'.																	
								215				LIMESTONE; micritic; pale brown; fresh; strong; hard; (Salina Group - Unit F). 0°J,T,No,No,PI,SR @ 214.4' 60°J,T,No,No,PI,SR @ 215.2-215.5'; pale brown																											
								216				0°J,VN,No,No,WA,SR @ 216.7'																											
HQ	47	5.0	3.5	0.0	70	0		217				DOLOMITE; shale; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°J,VN,Ca,Pa,WA,SR @ 217.5-219.3' 0°J,VN,No,No,PI,SR @ 217.6', 217.8', 218.6', 219.3', 219.5', 220.0'																											
								218														Water level @ 25.6' prior to drilling on 07/15/07.																	
								219																															
								220																															
								221				BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/shaley dolomite clasts; (Salina Group - Unit F).																											
								222				90°J,T,No,No,PI,S; joint has dolomite on one side & limestone on other @ 222.0-223.5'										Driller reported rapid advancement of drill stem from 223.5-228.5'.																	
HQ	48	5.0	1.5	0.0	30	0		223																															
								224				CLAYSTONE; weak to very weak; w/dolomite partings																											
								225																															

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C9

SHEET 16 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)									
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/15/07									
LOGGED BY <i>GEO Rev</i> Grainger/Bonnie										CHECKED BY <i>8/27</i> Dogbey/Bonnie										APPROVED BY <i>EM</i> Meyer																			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD						
								225					
								225.5					
								226					
								227					
HQ	49	5.0	2.0	0.0	40	0		228					
								229					
								230					
								231					
								232					
HQ	50	5.0	2.0	0.0	40	0		233					
								234					
								235					
								236					
HQ	51	2.5	1.9	0.3	76	12		237					
								238					
								239					
HQ	52	2.5	1.5	0.4	60	16		240					

228.5' Poorly graded SAND with Clay and Gravel (SP-SC) - About 70% sand; about 20% gravel; rounded to subrounded, with max. size 1/2"; about 10% fines; dark to very dark gray; moist; weak; (Salina Group - Unit F)

229.5' DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, N, Cl, Pa, Pl, SR @ 229.5-230.5' highly fractured w/clay infill @ 229.7-230.3' highly fractured @ 231.5-232.3' highly fractured @ 232.5-233.7'

234.7' BRECCIA; poorly indurated to indurated; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/ shaley dolomite clasts; (Salina Group - Unit F).

236.1' DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, J, VN, Cl, Pa, Pl, SR @ 236.7', 236.9', 237.2', 237.3', 237.4', 237.5', 237.9'

237.3' DOLOMITE; gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F).

237.7' DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/fossil zones; (Salina Group - Unit E). 0°, J, T, No, No, Pl, SR @ 238.8', 239.4', 239.6' 30°, J, T, No, No, Pl, SR @ 238.8-239.0' 90°, J, T, No, No, Pl, SR @ 239.4-239.6' 60°, J, T, No, No, Pl, SR @ 239.6-239.9'

Core box #13 starts @ 235.5'.

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C9

SHEET 17 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6112.4'					GROUND ELEVATION (DATUM) E 4616.0'					580.9 ft (NAVD 88)					TOTAL DEPTH 270.5 (feet)	
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 07/15/07	
SAMPLING										LOGGED BY <i>EM for</i> Grainger/Bonnie					CHECKED BY <i>EM for</i> Dogbey/Bonnie					APPROVED BY <i>EM</i> Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
HQ	53	5.0	3.8	1.9	76	38	240				90°, J, T, No, No, PI, SR @ 239.8-240.0', 240.0-240.3'										
			240.5				241		340		0°, J, VN, No, No, PI, SR @ 241.5'										
							242		339												
							243		338		60°, J, T, No, No, PI, SR @ 242.3-242.7' 90°, J, VN, No, No, Ir, SR @ 242.5-242.7' 0°, J, VN, No, No, PI, SR @ 242.55', 242.65' 65°, J, T, No, No, PI, SR @ 243.1-243.4' 0°, J, VN, No, No, PI, SR @ 243.4', 243.8' 90°, J, VN, No, No, PI, SR @ 243.8-244.1'										
							244		337		0°, J, VN, No, No, PI, SR @ 244.3'										
							245		336												
HQ	54	5.0	5.0	4.0	100	80	246		335		0°, J, VN, No, No, PI, SR @ 246.4', 246.65'										
							247		334												
							248		333		0°, J, VN, No, No, PI, SR @ 247.4' 90°, J, T, No, No, PI, SR @ 247.4-247.75' 0°, J, VN, No, No, PI, SR @ 247.65', 250.05' 30°, J, T, No, No, PI, SR @ 247.8-248.0', 248.7-248.85'										
							249		332												
							250		331												
							251		330												
HQ	55	5.0	1.5	0.0	30	0	252		329		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 251.9', 252.1', 252.2', 252.3', 252.4' 90°, J, T, No, No, PI, SR @ 252.4-252.5'					Driller reported rapid advancement @ 252.5-255.3'.					
							253		328												
							254		327												
							255		326												

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BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C9

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																															
SURFACE CONDITIONS Gravel parking lot near laydown area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 07/15/07																															
SAMPLING										LOGGED BY <i>Em</i> Grainger/Bonnie TB										CHECKED BY <i>Em</i> Dogbey/Bonnie TB										APPROVED BY <i>Em</i> Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
														270																												Bottom of boring @ 270.5'. Water level @ 24.6' at completion of drilling. Backfilled w/ bentonite chips to 40' below ground surface on 09/07/07. Continued w/ bentonite chips to 5' below ground surface then gravel to surface on 09/12/07.																			
														271				310																																											
														272				309																																											
														273				308																																											
														274				307																																											
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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																															
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07																															
SAMPLING										LOGGED BY Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer EM																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
SPT	1	50/5	-	-	50+	0.3							0		581							SILT (MH) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; dark grayish brown; very soft; dry; (Fill).																				Boring advanced w/4 1/4" ID; 8" OD hollow stem augers. SPT performed w/ BK81 automatic hammer.																			
SPT	2	3	4	3	7	0.4							1		580							Well graded GRAVEL (GW) - About 90% fine to coarse, subangular to angular, hard gravel w/max. size 2"; about 5% sand; about 5% fines; (Fill).																																							
SPT	3	1	7	8	15	0.4							2		579																																														
													3		578																																														
													4		577																																														
													5		576																																														
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													11		570																																														
													12		569																																														
													13		568																																														
													14		567							Fat CLAY (CH) - About 90% high plasticity, high toughness, no dilatancy fines; trace fine to coarse sand; trace angular gravel w/max. size 1/2"; gray; hard; moist; firm; homogeneous; slight reaction w/HCl																				Change in drill reaction @ 13.8'.																			
													15																																																



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 2 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)			
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07			
DATE FINISHED 08/25/07				LOGGED BY Bonnie <sup>TB</sup>				CHECKED BY Dogbey/Bonnie <sup>TB</sup>			
APPROVED BY Meyer											

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	4	4	6	9	15	1.2		15		566			
								16		565			PP = 1.5 STF @ 16.0'
								17		564			
								18		563			
TW	5					2.0		19		562			PP = 1.8 TSF @ 19.5'
								20		561			
SPT	6	2	2	6	8	1.5		21		560			
								22		559			
								23		558			
								24		557			
TW	7					1.1		25		556			
								26		555			
SPT	8	44	40	30	70	1.5		27		554			
								28		553			
								29		552			
								30					

27.4	DOLOMITE; grayish brown & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). 90° J,T,No,No,PI,SR @ 27.8-27.95' 0°,J,CI,Sp,VN,Ir,R @ 27.95', 28.65'	Auger refusal @ 27.4'. Set nominal 6" temporary steel casing to 28.0'. Below 27.4' continued w/ triple tube wire line core barrel
28.6	DOLOMITE; dark gray; micritic; fresh; strong; hard; w/stylolites; slightly mottled; (Bass Islands Group). 0°,B,VN,UK,Sp,PI,SR @ 29.5', 29.6', 29.7', 30.15'	





## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 3 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07		DATE FINISHED 08/25/07		
SAMPLING				LOGGED BY Bonnie TB				CHECKED BY Dogbey/Bonnie TB		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	2	5.0	5.0	2.9	100	58	30		551			w/diamond bit using water as drilling fluid. Core box #1 starts @ 27.4'.
							31		550		90°, J, T, No, No, PI, SR @ 31.25-31.55', 31.5-31.55', 32.5-34.0'	
							32		549		0°, B, VN, UK, Sp, PI, SR @ 31.3', 31.55', 31.6'	
							33		548		0°, B, VN, UK, Sp, PI, SR @ 32.5', 32.8', 33.0', 33.2', 33.3'	
							34		547		DOLOMITE; dark grayish brown & grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
			34.0				35		546		0°, B, VN, No, No, PI, SR @ 34.8', 35.2'	
HQ	3	5.0	5.0	3.75	100	75	36		545		0°, B, VN, UK, Sp, PI, SR @ 35.7', 36.2'	
							37		544		convoluted bedding @ 36.7-37.3'	
							38		543		0°, J, T, No, No, Ir, R @ 37.5'	
											90°, J, T, No, No, PI, SR @ 37.5-37.9'	
											grades light gray @ 37.8'	
											0°, B, VN, UK, Sp, PI, SR @ 37.9'	
											70°, J, T, No, No, PI, SR @ 38.1-34.4'	
											0°, B, VN, No, No, PI, SR @ 38.3', 38.5'	
			39.0				39		542		DOLOMITE; light gray & very dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	Water level @ 8.3' prior to drilling on 08/16/07. Core box #2 starts @ 39.0'.
							40		541		80°, J, T, No, No, PI, SR @ 39.3-39.9'	
							41		540		0°, B, VN, No, No, PI, SR @ 40.7', 41.1'	
HQ	4	5.0	4.6	3.5	92	70	42		539		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/pitted zones, stylolites & shale partings; (Bass Islands Group).	
											pitted @ 41.3-41.7'	
											70°, J, T, No, No, PI, SR @ 41.6-41.9'	
											pitted @ 42.15-42.25'	
											pitted @ 42.35-42.4'	
											shale parting - 0°, B, VN, PI, SR @ 42.5'	
											pitted @ 42.6-42.65'	
											pitted @ 42.7-42.75'	
											pitted @ 42.85-43.05'	
			44.0				44		537		0°, B, VN, No, No, PI, SR @ 43.3'	
											shale parting @ 43.5'	
											0°, B, VN, No, No, PI, SR @ 44.2'	
							45				70°, J, T, No, No, PI, SR @ 44.7-45.6'	



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																						
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																																																																												
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07																																																																																												
SAMPLING										LOGGED BY Bonnie <sup>TB</sup>										CHECKED BY Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Meyer																																																																																												
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																				
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<table border="1"> <tr> <td>HQ</td> <td>5</td> <td>5.0</td> <td>4.6</td> <td>0.3</td> <td>92</td> <td>6</td> </tr> </table>										HQ	5	5.0	4.6	0.3	92	6	<table border="1"> <tr> <td>45</td> <td></td> <td>536</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 45.0', 45.2'</td> <td></td> </tr> <tr> <td>46</td> <td></td> <td>535</td> <td></td> <td>70°,J,T,No,No,PI,SR @ 45.9-46.9' 0°,B,VN,No,No,PI,SR @ 46.2', 46.6', 46.7', 46.85'</td> <td></td> </tr> <tr> <td>47</td> <td></td> <td>534</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 47.0', 47.1', 47.4', 47.7'</td> <td></td> </tr> <tr> <td>48</td> <td></td> <td>533</td> <td></td> <td>50°,J,T,No,No,PI,SR @ 47.7-48.0' fractured @ 48.0-48.3'</td> <td></td> </tr> <tr> <td>49</td> <td></td> <td>532</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 48.5'</td> <td></td> </tr> <tr> <td>50</td> <td></td> <td>531</td> <td></td> <td>anhydrite @ 49.2' shale parting @ 49.5' shale partings - 0°,B,T,SR @ 49.6',49.8',49.9',50.3' 90°,J,T,No,No,PI,SR @ 50.0-50.4', 51.0-52.0'</td> <td></td> </tr> <tr> <td>51</td> <td></td> <td>530</td> <td></td> <td></td> <td></td> </tr> <tr> <td>52</td> <td></td> <td>529</td> <td></td> <td>shale partings - 0°,B,T,SR @ 51.9' 70°,J,T,No,No,PI,R @ 52.0-53.1', 52.1-52.3' shale partings - 0°,B,T,SR @ 52.1',52.8',53.5',53.8' 50°,J,T,No,No,PI,SR @ 52.5-53.0'</td> <td></td> </tr> <tr> <td>53</td> <td></td> <td>528</td> <td></td> <td>70°,J,T,No,No,PI,R @ 53.3-53.5'</td> <td></td> </tr> <tr> <td>54</td> <td></td> <td>527</td> <td></td> <td>DOLOMITE; oolitic; grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 60°,J,T,No,No,PI,SR @ 53.8-54.0'</td> <td>Core box #3 starts @ 54.0'.</td> </tr> <tr> <td>55</td> <td></td> <td>526</td> <td></td> <td></td> <td></td> </tr> <tr> <td>56</td> <td></td> <td>525</td> <td></td> <td>30°,J,T,No,No,PI,SR @ 55.3-55.5', 55.5-55.65', 55.7-55.85'</td> <td></td> </tr> <tr> <td>57</td> <td></td> <td>524</td> <td></td> <td>DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9' 30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'</td> <td></td> </tr> <tr> <td>58</td> <td></td> <td>523</td> <td></td> <td>very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7' mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'</td> <td></td> </tr> <tr> <td>59</td> <td></td> <td>522</td> <td></td> <td>90°,J,T,No,No,PI,SR @ 58.05-58.2' banded @ 58.4-58.5' grades light grayish brown @ 59.3' convoluted bedding @ 59.3-60.5'</td> <td></td> </tr> <tr> <td>60</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										45		536		0°,B,VN,No,No,PI,SR @ 45.0', 45.2'		46		535		70°,J,T,No,No,PI,SR @ 45.9-46.9' 0°,B,VN,No,No,PI,SR @ 46.2', 46.6', 46.7', 46.85'		47		534		0°,B,VN,No,No,PI,SR @ 47.0', 47.1', 47.4', 47.7'		48		533		50°,J,T,No,No,PI,SR @ 47.7-48.0' fractured @ 48.0-48.3'		49		532		0°,B,VN,No,No,PI,SR @ 48.5'		50		531		anhydrite @ 49.2' shale parting @ 49.5' shale partings - 0°,B,T,SR @ 49.6',49.8',49.9',50.3' 90°,J,T,No,No,PI,SR @ 50.0-50.4', 51.0-52.0'		51		530				52		529		shale partings - 0°,B,T,SR @ 51.9' 70°,J,T,No,No,PI,R @ 52.0-53.1', 52.1-52.3' shale partings - 0°,B,T,SR @ 52.1',52.8',53.5',53.8' 50°,J,T,No,No,PI,SR @ 52.5-53.0'		53		528		70°,J,T,No,No,PI,R @ 53.3-53.5'		54		527		DOLOMITE; oolitic; grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 60°,J,T,No,No,PI,SR @ 53.8-54.0'	Core box #3 starts @ 54.0'.	55		526				56		525		30°,J,T,No,No,PI,SR @ 55.3-55.5', 55.5-55.65', 55.7-55.85'		57		524		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9' 30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'		58		523		very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7' mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'		59		522		90°,J,T,No,No,PI,SR @ 58.05-58.2' banded @ 58.4-58.5' grades light grayish brown @ 59.3' convoluted bedding @ 59.3-60.5'		60					
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6050.7'					GROUND ELEVATION (DATUM) E 4451.3'					581.1 ft (NAVD 88)					TOTAL DEPTH 271.3 (feet)	
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant					DATE START 08/14/07					DATE FINISHED 08/25/07	
SAMPLING										LOGGED BY Bonnie <sup>TD</sup>					CHECKED BY Dogbey/Bonnie <sup>TD</sup>					APPROVED BY Meyer <sup>TD</sup>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
CORING																					
HQ	8	5.0	4.8	3.4	96	68		60		521		0° B, VN, UK, Sp, PI, SR @ 59.4', 59.6', 59.8', 60.1' brecciated, healed @ 60.3-60.4'									
								61		520		DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0° B, VN, UK, Sp, PI, SR @ 60.6', 61.8', 63.8'									
								62		519		10° J, VN, UK, Sp, PI, SR @ 62.4', 62.5', 62.65', 62.75'									
								63		518		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 10° J, VN, UK, Sp, PI, SR @ 63.2'									
								64		517		0° B, VN, UK, Sp, PI, SR @ 64.2', 64.5', 64.8', 65.0', 65.25', 65.35', 65.55', 65.8' fractured @ 64.5-64.9'									
HQ	9	5.0	5.0	3.0	100	60		65		516		90° J, T, No, No, PI, SR @ 65.0-66.0', 65.25-65.3', 65.35-65.4' highly fractured @ 65.6-65.7'									
								66		515		60° J, T, No, No, PI, SR @ 66.0-66.3'									
								67		514											
								68		513		0° B, VN, UK, Sp, PI, SR @ 67.65', 67.8', 67.9'					Core box #4 starts @ 67.9'.				
								69		512											
								70		511		60° J, T, No, No, PI, SR @ 69.8-70.2'									
HQ	10	5.0	4.8	3.8	96	76		71		510		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). 20° J, T, No, No, PI, SR @ 71.2-71.3', 71.7-71.9', 72.0-72.2'									
								72		509		90° J, T, No, No, WA, SR @ 71.7-72.0'									
								73		508											
								74		507		20° J, T, No, No, PI, SR @ 73.1-73.3'									
								75			0° B, T, No, No, PI, SR @ 73.1'										

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)													
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07													
SAMPLING										LOGGED BY Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																															
HQ		11		5.0		5.0		3.7		100		74		75				506				60°, J, T, Ca, Fi, PI, SR @ 75.7-75.9'																					
														76				505				0°, B, T, No, No, PI, SR @ 76.3', 77.5'																					
														77				504				10°, J, VN, CI, Fi, WA, SR @ 76.8'																					
														78				503				slightly brecciated, healed @ 77.0-77.3'																					
														79				502				10°, J, VN, No, No, PI, SR @ 77.6'																					
														80				501				DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).																					
														81				500				20°, J, T, No, No, PI, SR @ 76.7-76.9'																					
														82				499				90°, J, T, No, No, PI, SR @ 77.8-78.5', 76.9-77.1'																					
														83				498				0°, B, T, No, No, PI, SR @ 78.85'																					
														84				497				70°, J, T, No, No, PI, SR @ 79.3-79.8'																					
														85				496				shale parting - 10°, B, N, PI, SR @ 80.1'																					
														86				495				SHALE; black; fresh; weak; low hardness; (Bass Islands Group).																					
														87				494				interbedded w/dolomite @ 80.55-80.65'																					
														88				493				DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/brecciated zones & stylolites; (Bass Islands Group).																					
														89				492				brecciated, healed @ 85.2-85.5'																					
														90				491				70°, J, T, No, No, Ir, SR @ 85.9-86.3', 88.1-88.4'																					
																						0°, J, VN, Ca, Sp, PI, S @ 86.5'																					
																						brecciated, healed @ 86.5-86.9', 87.2-87.5'																					
																						45°, J, T, No, No, PI, SR @ 86.9-87.0', 87.4-87.5'																					
																						10°, J, T, CI, Sp, PI, SR @ 87.5'																					
																						0°, J, T, No, No, PI, SR @ 88.1'																					
																						40°, J, T, No, No, PI, SR @ 89.0-89.2'																					
																						60°, J, T, No, No, PI, SR @ 89.2-89.4'																					
																						90°, J, T, No, No, PI, SR @ 89.7-89.8'																					



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 7 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6050.7' E 4451.3'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm					COORDINATE SYSTEM Plant					DATE START 08/14/07				
DATE FINISHED 08/25/07					LOGGED BY Bonnie <sup>TB</sup>					CHECKED BY Dobbey/Bonnie <sup>TB</sup>				
APPROVED BY Meyer														

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	14	5.0	5.0	3.5	100	70		90		491		0°, J, VN, No, No, Ir, R @ 89.7' 10°, J, VN, Cl, Sp, WA, SR @ 89.9' 70°, J, VN, No, No, PI, SR @ 90.1-90.2' 0°, J, VN, No, No, PI, SR @ 90.5' brecciated, healed @ 91.0-91.3'	
								91		490			
								92		489		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). cross-bedding @ 40° @ 91.65-91.9' 0°, J, T, Cl, Sp, PI, SR @ 92.0', 92.3', 93.0', 93.3' 90°, J, T, No, No, PI, SR @ 92.05-92.3'	
								93		488			
								94		487		0°, B, VN, No, No, PI, SR @ 94.2', 94.5', 94.9'	Core box #6 starts @ 94.0'
								95		486		dolomite; argillaceous; dark gray; micritic; fresh; strong; hard @ 94.9-95.3' 10°, J, VN, No, No, PI, SR @ 95.0' fractured @ 95.2-95.3', 96.4-96.5' grades dark grayish brown @ 95.3'	
HQ	15	5.0	4.9	2.7	98	54		96		485		70°, J, T, No, No, Ir, S @ 95.4-95.5' brecciated, healed @ 95.7-95.8' 0°, B, VN, No, No, PI, SR @ 96.0', 96.3', 96.4'	
								97		484		grades grayish brown @ 97.1' 10°, J, VN, No, No, PI, SR @ 97.4'	
								98		483			
								99		482		10°, J, VN, No, No, PI, SR @ 98.5', 98.9'	
								100		481		fractured @ 99.1-99.3' 70°, J, T, No, No, PI, SR @ 99.5-99.7' shale partings - 0°, B, T, PI, SR @ 99.7', 100.6'	
								101		480		0°, B, T, No, No, PI, SR @ 100.5' 70°, J, T, No, No, PI, SR @ 100.6-100.8' 90°, J, VN, Cl, Sp, PI, SR @ 100.6-101.4' shale partings - 0°, B, T, PI, SR @ 101.2', 101.4'	
HQ	16	5.0	4.8	3.1	96	62		102		479		90°, J, T, No, No, PI, SR @ 101.75-101.85' 0°, B, T, No, No, PI, SR @ 101.85'	
								103		478			
								104		477		shale parting - 0°, B, T, PI, SR @ 103.7'	
								105				80°, J, VN, No, No, PI, SR @ 104.3-104.7' 10°, J, VN, No, No, PI, SR @ 104.5', 104.7', 104.8', 104.9'	

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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 8 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				
								DATE FINISHED 08/25/07				
SAMPLING				LOGGED BY Bonnie <sup>TP</sup>				CHECKED BY Dogbey/Bonnie <sup>TP</sup>				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	17	5.0	4.3	3.3	86	66	105		476		10° J, VN, No, No, PI, SR @ 105.7', 107.1'	
							106		475		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0° J, N, Ca, Fi, PI, SR @ 105.8' 20° J, VN, Cl, Sp, PI, SR @ 105.9' 30° J, VN, No, No, PI, SR @ 107.0'	
							107		474			
							108		473		50° J, VN, No, No, PI, SR @ 107.9-108.1'	
							109		472			Core box #7 starts @ 109.0'.
							110		471			
HQ	18	5.0	4.1	1.7	82	34	111		470		50° J, VN, No, No, PI, SR @ 110.7-110.9', 111.2-111.4' fractured @ 110.8-111.3'	
							112		469		90° J, T, anhydrite, Pa, PI, SR @ 111.6-113.1' 0° J, VN, No, No, PI, SR @ 111.6' 30° J, VN, No, No, PI, SR @ 111.7-112.0' 0° J, VN, Ca, Sp, PI, SR @ 112.1', 112.3', 112.6' fractured @ 112.3-112.7'	
							113		468		0° J, VN, No, No, PI, SR @ 112.9', 113.0', 113.1'	
							114		467			
							115		466		DOLOMITE; argillaceous; dark gray & grayish brown, banded; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). shale parting @ 115.2'	
							116		465		shale parting @ 116.0'	
HQ	19	5.0	2.9	0.4	58	8	117		464		shale partings - 0° B, VN, PI, SR @ 116.7', 117.05', 117.3', 117.4', 117.7', 117.9' 90° J, T, Ca, Pa, PI, SR @ 116.7-119.0'	
							118		463		50° J, T, No, No, PI, SR @ 118.1-118.3' shale partings - 0° B, VN, PI, SR @ 118.3', 118.7'	
							119		462			
							120					

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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 9 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7'				GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				
								DATE FINISHED 08/25/07				
SAMPLING				LOGGED BY Bonnie <sup>TB</sup>				CHECKED BY Dogbey/Bonnie <sup>TB</sup>				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	20	5.0	1.0	0.0	20	0	120		461			
							121		460			
							122		459		anhydrite @ 122.2-122.5'	
							123		458			
							124		457		DOLOMITE; argillaceous; micritic; pale brown; fresh; strong; hard; (Salina Group - Unit F).	
HQ	21	2.5	1.5	0.4	60	16	125		456			
							126		455			
							127		454		CLAYSTONE; dark gray to grayish brown; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F). dolomite @ 125.5-125.8'	
HQ	22	2.5	1.6	0.4	64	16	128		453		0° J,VN,No,No,PI,SR @ 127.9'	
							129		452		dolomite; gray; micritic; fresh; strong; hard @ 128.2-128.6'	
							130		451		10° J,VN,No,No,WA,SR @ 128.2'	
HQ	23	2.5	2.0	0.0	80	0	131		450		0° J,VN,No,No,PI,SR @ 128.6'	
							132		449		DOLOMITE; gray; (Salina Group - Unit F)	
							133		448		0° J,VN,No,No,PI,SR @ 130.0', 130.4', 130.5'	
							134		447		50° J,VN,No,No,PI,SR @ 130.15-130.4'	
							135		446		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).	
HQ	24	2.5	1.4	0.0	56	0	136		445		dolomite; gray @ 132.4-132.8'	
							137		444		90° J,T,No,No,PI,SR @ 132.4-132.7'	
							138		443		0° J,T,No,No,PI,SR @ 132.65', 132.7', 132.45'	
							139		442		calcite filled vug in dolomite @ 132.75'	
							140		441			

5/22/2008 9:25 AM DTE - Fermi 3 Geotech

Core box #8  
starts @ 129.0'



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 10 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7'				GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)				TOTAL DEPTH 271.3 (feet)	
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				DATE FINISHED 08/25/07	
SAMPLING				LOGGED BY Bonnie <sup>TB</sup>				CHECKED BY Dogbey/Bonnie <sup>TB</sup>				APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
HQ	25	2.5	0.7	0.0	28	0	135		446				
							136		445				
							137		444				
HQ	26	2.5	0.5	0.0	20	0	138		443		DOLOMITE; gray; (Salina Group - Unit F) 90° J,T,No,No,PI,SR @ 137.5-137.9' 0° J,T,No,No,PI,SR @ 137.7' 40° J,T,No,No,PI,SR @ 137.75-137.9'		
							139		442		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).		
HQ	27	2.5	0.5	0.0	20	0	140		441		DOLOMITE; gray; (Salina Group - Unit F) 70° J,T,No,No,PI,SR @ 140.1-140.2' 50° J,T,No,No,PI,SR @ 140.1-140.3' fractured @ 140.25-140.4' 90° J,T,No,No,PI,SR @ 140.4-140.5' (2)		
							141		440				
HQ	28	2.5	1.2	0.5	48	20	142		439		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F). 90° J,VN,No,No,PI,SR @ 142.1-142.4' dolomite; gray @ 142.1-142.4'	Water level @ 21.6' prior to drilling on 08/22/07.	
							143		438				
							144		437				
HQ	29	2.5	0.4	0.0	16	0	145		436				
							146		435				
							147		434		limestone band; dark gray; micritic; band; fresh; strong; hard; 15% vuggy @ 147.0-147.2'		
HQ	30	2.5	0.8	0.0	32	0	148		433		dolomite band; gray @ 147.8-148.0'		
							149		432		dolomite band; gray @ 148.5-148.7' 90° J,T,No,No,PI,SR @ 148.5-148.7'		
							150						

5/22/2008 9:25 AM DTE - Fermi 3 Geotech



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																										
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07																																
SAMPLING										LOGGED BY Bonnie <sup>TS</sup>										CHECKED BY Dogbey/Bonnie <sup>TS</sup>										APPROVED BY Meyer																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	<table border="1"> <tr> <th>GRAPHIC LOG</th> </tr> </table>										GRAPHIC LOG	<table border="1"> <tr> <th>CLASSIFICATION OF MATERIALS</th> </tr> </table>										CLASSIFICATION OF MATERIALS	<table border="1"> <tr> <th>REMARKS</th> </tr> </table>										REMARKS
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5/22/2008 9:25 AM DTE - Fermi 3 Geotech

0°, B, T, No, No, PI, SR @ 162.4', 162.6', 163.3', 163.6'  
dolomite; gray @ 162.4-162.8'  
90°, J, T, No, No, PI, SR @ 162.6-162.8', 163.3-163.8'

DOLOMITE; gray; (Salina Group - Unit F)

BRECCIA; dolomite clasts in a poorly indurated to  
indurated claystone matrix; light brownish gray; fresh;  
w/clasts of dolomite; gray; micritic; fresh; strong; hard;  
(Salina Group - Unit F).

Core box #9 @  
159.0'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																												
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																																																		
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07																																																																		
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																										
HQ							37			2.5		0.1		0.0		4		0		165						416			dolomite band; gray @ 165.0-165.2																																																																			
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HQ							38			2.5		0.15		0.0		6		0		168						413																																																																						
																		169						412																																																																								
HQ							39			2.5		0.0		0.0		0		0		170						411																																																																						
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HQ							40			2.5		0.0		0.0		0		0		172						409																																																																						
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HQ							41			2.5		0.8		0.0		32		0		175						406			<p>BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray &amp; grayish brown; strong; hard; (Salina Group - Unit F).</p> <p>0°,B,VN,No,No,PI,SR @ 177.1'</p> <p>LIMESTONE; grayish brown; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 0°,B,VN,No,No,PI,SR @ 177.7', 178.2'</p> <p>BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray &amp;</p>																				<p>Water level @ 22.3' prior to drilling on 08/23/07.</p>																																															
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HQ							42			2.5		1.9		1.1		76		44		178						403																																																																						
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5/22/2008 9:25 AM DTE - Fermi 3 Geotech

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Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6050.7'					E 4451.3'					581.1 ft (NAVD 88)		271.3 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Earth berm										Plant					08/14/07		08/25/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie TP					Dobbey/Bonnie TP					Meyer	
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 15 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																																																																																																																			
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5/22/2008 9:25 AM DTE - Fermi 3 Geotech

Water level @ 23.3' prior to drilling on 08/24/07.

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6050.7'					E 4451.3'					581.1 ft (NAVD 88)		271.3 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Earth berm										Plant					08/14/07		08/25/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie <sup>TB</sup>					Dogbey/Bonnie <sup>TB</sup>					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
HQ	56	2.5	0.3	0.0	12	0		225		356		limestone band; dark gray @ 225.0-225.1'									
								226		355		dolomite band; gray @ 225.1-225.4'									
												30°, J, VN, No, No, PI, SR @ 225.2-225.3', 225.3-225.4'									
								227		354		dolomite band; gray @ 227.0-227.1'									
HQ	57	2.5	0.3	0.0	12	0		228		353		limestone band; dark gray @ 227.1-227.2'									
												dolomite band; gray @ 227.2-227.4'									
												10°, J, VN, No, No, PI, SR @ 227.2', 227.4'									
												90°, J, VN, No, No, PI, SR @ 227.25-227.35'									
								229		352											
HQ	58	2.5	0.4	0.0	16	0		230		351		dolomite band; gray @ 230.0-230.4'									
								231		350											
								232		349											
HQ	59	2.5	0.7	0.0	28	0		233		348		<u>DOLOMITE</u> ; gray; (Salina Group - Unit F) fractured @ 232.4-232.8'									
												0°, B, VN, CI, Sp, PI, SR @ 232.8'									
								234		347		<u>BRECCIA</u> ; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).									
								235		346		grades claystone; gray; slightly weathered; very weak; soft; w/clasts of dolomite; gray @ 234.5									
HQ	60	2.5	1.1	0.0	44	0		236		345		<u>LIMESTONE</u> ; dark gray; (Salina Group - Unit F). fractured @ 235.0-235.8'									
												0°, B, VN, No, No, PI, SR @ 235.0', 235.8', 236.0'									
								237		344		<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).									
												70°, J, VN, No, No, PI, SR @ 235.8-236.0'									
HQ	61	2.5	1.9	1.0	76	40		238		343		<u>BRECCIA</u> ; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).									
												dolomite band; light grayish brown; 5% vuggy @ 237.1-237.2'									
								239		342		<u>DOLOMITE</u> ; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).									
												0°, B, VN, No, No, PI, SR @ 237.3', 237.55', 237.7'									
												shale partings @ 237.7', 237.75'									
								240				<u>DOLOMITE</u> ; light brownish gray; micritic; fresh;									



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 17 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7'				GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)				TOTAL DEPTH 271.3 (feet)	
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				DATE FINISHED 08/25/07	
SAMPLING				LOGGED BY Bonnie <sup>TB</sup>				CHECKED BY Dogbey/Bonnie <sup>TB</sup>				APPROVED BY Meyer <sup>EM</sup>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
HQ	62	5.0	4.5	2.0	90	40	240		341		strong; hard; w/fossils; (Salina Group - Unit E). shale partings - 0°, B, VN, PI, SR @ 237.8', 238.2', 238.9' fossils @ 237.75-237.7', 238.3-238.4', 238.75-238.9' 70°, J, VN, No, No, PI, R @ 239.4-239.7' 60°, J, VN, No, No, PI, SR @ 239.7-240.0' 80°, J, T, No, No, Ir, R @ 240.8-241.7' fossils @ 241.3-244.0' 55°, J, T, No, No, PI, SR @ 241.5-241.7' 20°, J, T, No, No, PI, SR @ 241.7-241.8' 90°, J, T, No, No, PI, SR @ 241.8-242.1' 10°, J, T, No, No, PI, SR @ 242.05-242.1' 0°, B, T, No, No, PI, SR @ 242.7', 243.3', 243.4', 243.5'		
HQ	63	5.0	4.8	3.7	96	74	244		337		shale partings - 0°, B, VN, PI, SR @ 244.2', 245.4', 246.35' fossils @ 244.4-244.8', 245.0-245.45', 246.2-246.4', 246.6-247.3' 10°, J, T, No, No, PI, SR @ 245.1' 90°, J, T, No, No, PI, SR @ 245.1-245.2' shale partings @ 245.45', 245.55', 245.65' 0°, B, T, No, No, PI, SR @ 245.6', 246.85' 80°, J, T, No, No, PI, SR @ 246.7-246.85'		
HQ	64	5.0	5.0	4.8	100	96	249		332		fossils @ 248.0-248.6' fossils @ 248.8-250.2'	Core box #12 starts @ 249.0'.	
							250		331		0°, J, VN, No, No, PI, SR @ 250.6' 0°, J, VN, CI, Sp, PI, SR @ 250.85', 250.95'		
							251		330		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, CI, Sp, PI, SR @ 251.3'		
							252		329		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/anhydrite nodules & veins; (Salina Group - Unit E).		
							253		328		DOLOMITE; gray; micritic; fresh; strong; hard; 5% vugs; anhydrite filled; (Salina Group - Unit E). shale parting - 10°, V, PI, S @ 253.15'		
							254		327		0°, J, VN, No, No, PI, SR @ 254.1', 254.2', 254.3' shale band; very dark gray @ 254.3-254.5'		
							255						

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																								
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																																																																																																														
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5/22/2008 9:25 AM DTE - Fermi 3 Geotech



CLIENT							PROJECT						SHEET NO.					
Detroit Edison							Fermi 3 COL Application						147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7'			GROUND ELEVATION (DATUM) E 4451.3'      581.1 ft (NAVD 88)			TOTAL DEPTH 271.3 (feet)								
SURFACE CONDITIONS Earth berm							COORDINATE SYSTEM Plant			DATE START 08/14/07			DATE FINISHED 08/25/07					
SAMPLING									LOGGED BY Bonnie TB				CHECKED BY Dogbey/Bonnie TB			APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD												
HQ	69	2.3	2.3	2.1	100	91	270		311		shale parting - 0°, B,VN,Sp,PI,S @ 270.55' shale parting - 0°, B,VN,Sp,WA,S @ 270.7'							
							271		310									
							272		309			Bottom of Boring @ 271.3'. Water level @ 22.7' @ completion of drilling. Boring caved @ 139.2'. Boring backfilled from 271.3' w/ bentonite chips to 50' below ground surface on 09/11/07. Continued w/ bentonite chips to 10' below ground surface on 09/20/07. Continued w/ bentonite chips to 3' below ground surface, then gravel to surface on 09/21/07.						
							273		308									
							274		307									
							275		306									
							276		305									
							277		304									
							278		303									
							279		302									
							280		301									
							281		300									
							282		299									
							283		298									
							284		297									
							285											



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 1 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)									
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07									
SAMPLING										LOGGED BY Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer EM									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
SPT	1	50/5	-	-	50+	0.3	0		581		SILT (MH) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; dark grayish brown; very soft; dry; (Fill).	Boring advanced w/4 1/4" ID; 8" OD hollow stem augers. SPT performed w/ BK81 automatic hammer.																											
SPT	2	3	4	3	7	0.4	6		575		Well graded GRAVEL (GW) - About 90% fine to coarse, subangular to angular, hard gravel w/max. size 2"; about 5% sand; about 5% fines; (Fill).																												
SPT	3	1	7	8	15	0.4	11		570																														
							14		567		Fat CLAY (CH) - About 90% high plasticity, high toughness, no dilatancy fines; trace fine to coarse sand; trace angular gravel w/max. size 1/2"; gray; hard; moist; firm; homogeneous; slight reaction w/HCl	Change in drill reaction @ 13.8'.																											



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 2 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)			
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07			
DATE FINISHED 08/25/07				LOGGED BY Bonnie <sup>TB</sup>				CHECKED BY Dogbey/Bonnie <sup>TB</sup>			
APPROVED BY Meyer											

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	4	4	6	9	15	1.2		15		566			
								16		565			PP = 1.5 STF @ 16.0'.
								17		564			
								18		563			
TW	5					2.0		19		562			
								20		561			
SPT	6	2	2	6	8	1.5		21		560			
								22		559			
								23		558			
								24		557			
TW	7					1.1		25		556			
								26		555			
SPT	8	44	40	30	70	1.5		27		554			
								28		553			
								29		552			
								30					

DEPTH (FEET)	CLASSIFICATION OF MATERIALS	REMARKS
21.0	Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; 5% subangular to angular sand; brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
22.5	grades trace cobbles @ 22.5'	Driller reported possible cobble @ 22.5'.
25.0	Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, angular to subangular sand; about 10% fine, subangular gravel, fractured w/1 hammer blow; gray to grayish brown; moist; strong reaction w/HCl; homogeneous.	TV = 1.3 TSF @ 25.0'. PP = 4.0 TSF @ 25.0'.
27.4	DOLOMITE; grayish brown & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). 90° J,T,No,No,PI,SR @ 27.8-27.95' 0°,J,CI,Sp,VN,Ir,R @ 27.95', 28.65'	Auger refusal @ 27.4'. Set nominal 6" temporary steel casing to 28.0'. Below 27.4' continued w/ triple tube wire line core barrel
28.6	DOLOMITE; dark gray; micritic; fresh; strong; hard; w/stylolites; slightly mottled; (Bass Islands Group). 0°,B,VN,UK,Sp,PI,SR @ 29.5', 29.6', 29.7', 30.15'	



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 3 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07		DATE FINISHED 08/25/07		
SAMPLING				LOGGED BY Bonnie TB				CHECKED BY Dogbey/Bonnie TB		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	2	5.0	5.0	2.9	100	58	30		551			w/diamond bit using water as drilling fluid. Core box #1 starts @ 27.4'.
							31		550		90°, J, T, No, No, PI, SR @ 31.25-31.55', 31.5-31.55', 32.5-34.0'	
							32		549		0°, B, VN, UK, Sp, PI, SR @ 31.3', 31.55', 31.6'	
							33		548		0°, B, VN, UK, Sp, PI, SR @ 32.5', 32.8', 33.0', 33.2', 33.3'	
							34		547		DOLOMITE; dark grayish brown & grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
			34.0				35		546		0°, B, VN, No, No, PI, SR @ 34.8', 35.2'	
HQ	3	5.0	5.0	3.75	100	75	36		545		0°, B, VN, UK, Sp, PI, SR @ 35.7', 36.2'	
							37		544		convoluted bedding @ 36.7-37.3'	
							38		543		0°, J, T, No, No, Ir, R @ 37.5'	
											90°, J, T, No, No, PI, SR @ 37.5-37.9'	
											grades light gray @ 37.8'	
											0°, B, VN, UK, Sp, PI, SR @ 37.9'	
											70°, J, T, No, No, PI, SR @ 38.1-34.4'	
											0°, B, VN, No, No, PI, SR @ 38.3', 38.5'	
			39.0				39		542		DOLOMITE; light gray & very dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	Water level @ 8.3' prior to drilling on 08/16/07. Core box #2 starts @ 39.0'.
							40		541		80°, J, T, No, No, PI, SR @ 39.3-39.9'	
							41		540		0°, B, VN, No, No, PI, SR @ 40.7', 41.1'	
HQ	4	5.0	4.6	3.5	92	70	42		539		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/pitted zones, stylolites & shale partings; (Bass Islands Group).	
											pitted @ 41.3-41.7'	
											70°, J, T, No, No, PI, SR @ 41.6-41.9'	
											pitted @ 42.15-42.25'	
											pitted @ 42.35-42.4'	
											shale parting - 0°, B, VN, PI, SR @ 42.5'	
											pitted @ 42.6-42.65'	
											pitted @ 42.7-42.75'	
											pitted @ 42.85-43.05'	
											0°, B, VN, No, No, PI, SR @ 43.3'	
											shale parting @ 43.5'	
											0°, B, VN, No, No, PI, SR @ 44.2'	
			44.0				44		537		70°, J, T, No, No, PI, SR @ 44.7-45.6'	
							45					



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																						
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<table border="1"> <tr> <td>HQ</td> <td>5</td> <td>5.0</td> <td>4.6</td> <td>0.3</td> <td>92</td> <td>6</td> </tr> </table>										HQ	5	5.0	4.6	0.3	92	6	<table border="1"> <tr> <td>45</td> <td></td> <td>536</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 45.0', 45.2'</td> <td></td> </tr> <tr> <td>46</td> <td></td> <td>535</td> <td></td> <td>70°,J,T,No,No,PI,SR @ 45.9-46.9' 0°,B,VN,No,No,PI,SR @ 46.2', 46.6', 46.7', 46.85'</td> <td></td> </tr> <tr> <td>47</td> <td></td> <td>534</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 47.0', 47.1', 47.4', 47.7'</td> <td></td> </tr> <tr> <td>48</td> <td></td> <td>533</td> <td></td> <td>50°,J,T,No,No,PI,SR @ 47.7-48.0' fractured @ 48.0-48.3'</td> <td></td> </tr> <tr> <td>49</td> <td></td> <td>532</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 48.5'</td> <td></td> </tr> <tr> <td>50</td> <td></td> <td>531</td> <td></td> <td>anhydrite @ 49.2' shale parting @ 49.5' shale partings - 0°,B,T,SR @ 49.6',49.8',49.9',50.3' 90°,J,T,No,No,PI,SR @ 50.0-50.4', 51.0-52.0'</td> <td></td> </tr> <tr> <td>51</td> <td></td> <td>530</td> <td></td> <td></td> <td></td> </tr> <tr> <td>52</td> <td></td> <td>529</td> <td></td> <td>shale partings - 0°,B,T,SR @ 51.9' 70°,J,T,No,No,PI,R @ 52.0-53.1', 52.1-52.3' shale partings - 0°,B,T,SR @ 52.1',52.8',53.5',53.8' 50°,J,T,No,No,PI,SR @ 52.5-53.0'</td> <td></td> </tr> <tr> <td>53</td> <td></td> <td>528</td> <td></td> <td>70°,J,T,No,No,PI,R @ 53.3-53.5'</td> <td></td> </tr> <tr> <td>54</td> <td></td> <td>527</td> <td></td> <td>DOLOMITE; oolitic; grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 60°,J,T,No,No,PI,SR @ 53.8-54.0'</td> <td>Core box #3 starts @ 54.0'.</td> </tr> <tr> <td>55</td> <td></td> <td>526</td> <td></td> <td></td> <td></td> </tr> <tr> <td>56</td> <td></td> <td>525</td> <td></td> <td>30°,J,T,No,No,PI,SR @ 55.3-55.5', 55.5-55.65', 55.7-55.85'</td> <td></td> </tr> <tr> <td>57</td> <td></td> <td>524</td> <td></td> <td>DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9' 30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'</td> <td></td> </tr> <tr> <td>58</td> <td></td> <td>523</td> <td></td> <td>very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7' mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'</td> <td></td> </tr> <tr> <td>59</td> <td></td> <td>522</td> <td></td> <td>90°,J,T,No,No,PI,SR @ 58.05-58.2' banded @ 58.4-58.5' grades light grayish brown @ 59.3' convoluted bedding @ 59.3-60.5'</td> <td></td> </tr> <tr> <td>60</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										45		536		0°,B,VN,No,No,PI,SR @ 45.0', 45.2'		46		535		70°,J,T,No,No,PI,SR @ 45.9-46.9' 0°,B,VN,No,No,PI,SR @ 46.2', 46.6', 46.7', 46.85'		47		534		0°,B,VN,No,No,PI,SR @ 47.0', 47.1', 47.4', 47.7'		48		533		50°,J,T,No,No,PI,SR @ 47.7-48.0' fractured @ 48.0-48.3'		49		532		0°,B,VN,No,No,PI,SR @ 48.5'		50		531		anhydrite @ 49.2' shale parting @ 49.5' shale partings - 0°,B,T,SR @ 49.6',49.8',49.9',50.3' 90°,J,T,No,No,PI,SR @ 50.0-50.4', 51.0-52.0'		51		530				52		529		shale partings - 0°,B,T,SR @ 51.9' 70°,J,T,No,No,PI,R @ 52.0-53.1', 52.1-52.3' shale partings - 0°,B,T,SR @ 52.1',52.8',53.5',53.8' 50°,J,T,No,No,PI,SR @ 52.5-53.0'		53		528		70°,J,T,No,No,PI,R @ 53.3-53.5'		54		527		DOLOMITE; oolitic; grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 60°,J,T,No,No,PI,SR @ 53.8-54.0'	Core box #3 starts @ 54.0'.	55		526				56		525		30°,J,T,No,No,PI,SR @ 55.3-55.5', 55.5-55.65', 55.7-55.85'		57		524		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9' 30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'		58		523		very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7' mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'		59		522		90°,J,T,No,No,PI,SR @ 58.05-58.2' banded @ 58.4-58.5' grades light grayish brown @ 59.3' convoluted bedding @ 59.3-60.5'		60					
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6050.7'					GROUND ELEVATION (DATUM) E 4451.3'					581.1 ft (NAVD 88)					TOTAL DEPTH 271.3 (feet)	
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant					DATE START 08/14/07					DATE FINISHED 08/25/07	
SAMPLING										LOGGED BY Bonnie TB					CHECKED BY Dogbey/Bonnie TB					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
CORING																					
HQ	8	5.0	4.8	3.4	96	68		60		521		0° B, VN, UK, Sp, PI, SR @ 59.4', 59.6', 59.8', 60.1' brecciated, healed @ 60.3-60.4'									
								61		520		DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0° B, VN, UK, Sp, PI, SR @ 60.6', 61.8', 63.8'									
								62		519		10° J, VN, UK, Sp, PI, SR @ 62.4', 62.5', 62.65', 62.75'									
								63		518		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 10° J, VN, UK, Sp, PI, SR @ 63.2'									
								64		517		0° B, VN, UK, Sp, PI, SR @ 64.2', 64.5', 64.8', 65.0', 65.25', 65.35', 65.55', 65.8' fractured @ 64.5-64.9'									
HQ	9	5.0	5.0	3.0	100	60		65		516		90° J, T, No, No, PI, SR @ 65.0-66.0', 65.25-65.3', 65.35-65.4' highly fractured @ 65.6-65.7'									
								66		515		60° J, T, No, No, PI, SR @ 66.0-66.3'									
								67		514		0° B, VN, UK, Sp, PI, SR @ 67.65', 67.8', 67.9'					Core box #4 starts @ 67.9'.				
								68		513											
								69		512		60° J, T, No, No, PI, SR @ 69.8-70.2'									
HQ	10	5.0	4.8	3.8	96	76		70		511											
								71		510		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). 20° J, T, No, No, PI, SR @ 71.2-71.3', 71.7-71.9', 72.0-72.2'									
								72		509		90° J, T, No, No, WA, SR @ 71.7-72.0'									
								73		508		20° J, T, No, No, PI, SR @ 73.1-73.3'									
								74		507		0° B, T, No, No, PI, SR @ 73.1'									
								75													

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)													
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07													
SAMPLING										LOGGED BY Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
HQ		11		5.0		5.0		3.7		100		74		75				506				60°, J, T, Ca, Fi, PI, SR @ 75.7-75.9'																					
														76				505				0°, B, T, No, No, PI, SR @ 76.3', 77.5'																					
														77				504				10°, J, VN, CI, Fi, WA, SR @ 76.8'																					
														78				503				slightly brecciated, healed @ 77.0-77.3'																					
														79				502				10°, J, VN, No, No, PI, SR @ 77.6'																					
														80				501				DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).																					
														81				500				20°, J, T, No, No, PI, SR @ 76.7-76.9'																					
														82				499				90°, J, T, No, No, PI, SR @ 77.8-78.5', 76.9-77.1'																					
														83				498				0°, B, T, No, No, PI, SR @ 78.85'																					
														84				497				70°, J, T, No, No, PI, SR @ 79.3-79.8'																					
														85				496				shale parting - 10°, B, N, PI, SR @ 80.1'																					
														86				495				SHALE; black; fresh; weak; low hardness; (Bass Islands Group).																					
														87				494				interbedded w/dolomite @ 80.55-80.65'																					
														88				493				DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/brecciated zones & stylolites; (Bass Islands Group).																					
														89				492				brecciated, healed @ 85.2-85.5'																					
														90				491				70°, J, T, No, No, Ir, SR @ 85.9-86.3', 88.1-88.4'																					
																						0°, J, VN, Ca, Sp, PI, S @ 86.5'																					
																						brecciated, healed @ 86.5-86.9', 87.2-87.5'																					
																						45°, J, T, No, No, PI, SR @ 86.9-87.0', 87.4-87.5'																					
																						10°, J, T, CI, Sp, PI, SR @ 87.5'																					
																						0°, J, T, No, No, PI, SR @ 88.1'																					
																						40°, J, T, No, No, PI, SR @ 89.0-89.2'																					
																						60°, J, T, No, No, PI, SR @ 89.2-89.4'																					
																						90°, J, T, No, No, PI, SR @ 89.7-89.8'																					



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 7 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6050.7' E 4451.3'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm					COORDINATE SYSTEM Plant					DATE START 08/14/07				
DATE FINISHED 08/25/07					LOGGED BY Bonnie <sup>TB</sup>					CHECKED BY Dobbey/Bonnie <sup>TB</sup>				
APPROVED BY Meyer														

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	14	5.0	5.0	3.5	100	70		90		491		0°, J, VN, No, No, Ir, R @ 89.7' 10°, J, VN, Cl, Sp, WA, SR @ 89.9' 70°, J, VN, No, No, PI, SR @ 90.1-90.2' 0°, J, VN, No, No, PI, SR @ 90.5' brecciated, healed @ 91.0-91.3'	
								91		490			
								92		489		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). cross-bedding @ 40° @ 91.65-91.9' 0°, J, T, Cl, Sp, PI, SR @ 92.0', 92.3', 93.0', 93.3' 90°, J, T, No, No, PI, SR @ 92.05-92.3'	
								93		488			
								94		487		0°, B, VN, No, No, PI, SR @ 94.2', 94.5', 94.9'	Core box #6 starts @ 94.0'.
								95		486		dolomite; argillaceous; dark gray; micritic; fresh; strong; hard @ 94.9-95.3' 10°, J, VN, No, No, PI, SR @ 95.0' fractured @ 95.2-95.3', 96.4-96.5' grades dark grayish brown @ 95.3' 70°, J, T, No, No, Ir, S @ 95.4-95.5' brecciated, healed @ 95.7-95.8' 0°, B, VN, No, No, PI, SR @ 96.0', 96.3', 96.4'	
HQ	15	5.0	4.9	2.7	98	54		96		485			
								97		484		grades grayish brown @ 97.1' 10°, J, VN, No, No, PI, SR @ 97.4'	
								98		483			
								99		482		10°, J, VN, No, No, PI, SR @ 98.5', 98.9'	
								100		481		fractured @ 99.1-99.3' 70°, J, T, No, No, PI, SR @ 99.5-99.7' shale partings - 0°, B, T, PI, SR @ 99.7', 100.6'	
								101		480		0°, B, T, No, No, PI, SR @ 100.5' 70°, J, T, No, No, PI, SR @ 100.6-100.8' 90°, J, VN, Cl, Sp, PI, SR @ 100.6-101.4' shale partings - 0°, B, T, PI, SR @ 101.2', 101.4'	
HQ	16	5.0	4.8	3.1	96	62		102		479		90°, J, T, No, No, PI, SR @ 101.75-101.85' 0°, B, T, No, No, PI, SR @ 101.85'	
								103		478			
								104		477		shale parting - 0°, B, T, PI, SR @ 103.7'	
								105				80°, J, VN, No, No, PI, SR @ 104.3-104.7' 10°, J, VN, No, No, PI, SR @ 104.5', 104.7', 104.8', 104.9'	

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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 8 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				
								DATE FINISHED 08/25/07				
SAMPLING				LOGGED BY Bonnie <sup>TP</sup>				CHECKED BY Dogbey/Bonnie <sup>TP</sup>				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	17	5.0	4.3	3.3	86	66	105		476		10° J, VN, No, No, PI, SR @ 105.7', 107.1'	
							106		475		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0° J, N, Ca, Fi, PI, SR @ 105.8' 20° J, VN, Cl, Sp, PI, SR @ 105.9' 30° J, VN, No, No, PI, SR @ 107.0'	
							107		474			
							108		473		50° J, VN, No, No, PI, SR @ 107.9-108.1'	
							109		472			Core box #7 starts @ 109.0'.
							110		471			
HQ	18	5.0	4.1	1.7	82	34	111		470		50° J, VN, No, No, PI, SR @ 110.7-110.9', 111.2-111.4' fractured @ 110.8-111.3'	
							112		469		90° J, T, anhydrite, Pa, PI, SR @ 111.6-113.1' 0° J, VN, No, No, PI, SR @ 111.6' 30° J, VN, No, No, PI, SR @ 111.7-112.0' 0° J, VN, Ca, Sp, PI, SR @ 112.1', 112.3', 112.6' fractured @ 112.3-112.7'	
							113		468		0° J, VN, No, No, PI, SR @ 112.9', 113.0', 113.1'	
							114		467			
							115		466		DOLOMITE; argillaceous; dark gray & grayish brown, banded; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). shale parting @ 115.2'	
							116		465		shale parting @ 116.0'	
HQ	19	5.0	2.9	0.4	58	8	117		464		shale partings - 0° B, VN, PI, SR @ 116.7', 117.05', 117.3', 117.4', 117.7', 117.9' 90° J, T, Ca, Pa, PI, SR @ 116.7-119.0'	
							118		463		50° J, T, No, No, PI, SR @ 118.1-118.3' shale partings - 0° B, VN, PI, SR @ 118.3', 118.7'	
							119		462			
							120					

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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 9 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7'				GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				
								DATE FINISHED 08/25/07				
SAMPLING				LOGGED BY Bonnie <sup>TB</sup>				CHECKED BY Dogbey/Bonnie <sup>TB</sup>				
								APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	20	5.0	1.0	0.0	20	0	120		461			
							121		460			
							122		459		anhydrite @ 122.2-122.5'	
							123		458			
							124		457		DOLOMITE; argillaceous; micritic; pale brown; fresh; strong; hard; (Salina Group - Unit F).	
HQ	21	2.5	1.5	0.4	60	16	125		456			
							126		455			
							127		454		CLAYSTONE; dark gray to grayish brown; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F). dolomite @ 125.5-125.8'	
HQ	22	2.5	1.6	0.4	64	16	128		453		0° J,VN,No,No,PI,SR @ 127.9'	
							129		452		dolomite; gray; micritic; fresh; strong; hard @ 128.2-128.6'	
							130		451		10° J,VN,No,No,WA,SR @ 128.2'	
HQ	23	2.5	2.0	0.0	80	0	131		450		0° J,VN,No,No,PI,SR @ 128.6'	
							132		449		DOLOMITE; gray; (Salina Group - Unit F)	
							133		448		0° J,VN,No,No,PI,SR @ 130.0', 130.4', 130.5'	
							134		447		50° J,VN,No,No,PI,SR @ 130.15-130.4'	
							135				CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).	
											dolomite; gray @ 132.4-132.8'	
											90° J,T,No,No,PI,SR @ 132.4-132.7'	
											0° J,T,No,No,PI,SR @ 132.65', 132.7', 132.45'	
											calcite filled vug in dolomite @ 132.75'	

5/22/2008 9:25 AM DTE - Fermi 3 Geotech

Core box #8  
starts @ 129.0'



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 10 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7'				GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07		DATE FINISHED 08/25/07		
SAMPLING				LOGGED BY Bonnie TB				CHECKED BY Dogbey/Bonnie TB		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	25	2.5	0.7	0.0	28	0	135		446			
							136		445			
							137		444			
HQ	26	2.5	0.5	0.0	20	0	138		443		DOLOMITE; gray; (Salina Group - Unit F) 90° J,T,No,No,PI,SR @ 137.5-137.9' 0° J,T,No,No,PI,SR @ 137.7' 40° J,T,No,No,PI,SR @ 137.75-137.9'	
							139		442		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).	
HQ	27	2.5	0.5	0.0	20	0	140		441		DOLOMITE; gray; (Salina Group - Unit F) 70° J,T,No,No,PI,SR @ 140.1-140.2' 50° J,T,No,No,PI,SR @ 140.1-140.3' fractured @ 140.25-140.4' 90° J,T,No,No,PI,SR @ 140.4-140.5' (2)	
							141		440			
HQ	28	2.5	1.2	0.5	48	20	142		439		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F). 90° J,VN,No,No,PI,SR @ 142.1-142.4' dolomite; gray @ 142.1-142.4'	Water level @ 21.6' prior to drilling on 08/22/07.
							143		438			
							144		437			
HQ	29	2.5	0.4	0.0	16	0	145		436			
							146		435			
							147		434		limestone band; dark gray; micritic; band; fresh; strong; hard; 15% vuggy @ 147.0-147.2'	
HQ	30	2.5	0.8	0.0	32	0	148		433		dolomite band; gray @ 147.8-148.0'	
							149		432		dolomite band; gray @ 148.5-148.7' 90° J,T,No,No,PI,SR @ 148.5-148.7'	
							150					

5/22/2008 9:25 AM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																										
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07																																
SAMPLING										LOGGED BY Bonnie <sup>TS</sup>										CHECKED BY Dogbey/Bonnie <sup>TS</sup>										APPROVED BY Meyer																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	<table border="1"> <tr> <th>GRAPHIC LOG</th> </tr> </table>										GRAPHIC LOG	<table border="1"> <tr> <th>CLASSIFICATION OF MATERIALS</th> </tr> </table>										CLASSIFICATION OF MATERIALS	<table border="1"> <tr> <th>REMARKS</th> </tr> </table>										REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																								
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REMARKS																																																														
HQ 31 2.5 0.0 0.0 0 0										150 431																																																				
										151 430																																																				
										151.5																																																				
HQ 32 2.5 1.1 0.0 44 0										152 429										limestone; dark gray @ 152.0-152.3'																																										
										153 428										limestone; dark gray @ 152.9-153.2'																																										
										154.0										154 427										dolomite; gray @ 154.4-154.7'																																
HQ 33 2.5 1.7 1.4 68 56										155 426										BRECCIA; dolomite clasts in a poorly indurated to indurated claystone matrix; light brownish gray; fresh; w/clasts of dolomite; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																										
										156 425																																																				
										156.5										157 424																																										
HQ 34 2.5 1.2 0.35 48 14										158 423										dolomite; gray @ 158.0-158.2'																																										
										159.0										159 422																																										
										160 421																																																				
HQ 35 2.5 0.5 0.35 20 14										161 420																																																				
										161.5										162 419																																										
HQ 36 2.5 1.3 0.0 52 0										163 418										0° B,T,No,No,PI,SR @ 162.4', 162.6', 163.3', 163.6' dolomite; gray @ 162.4-162.8' 90° J,T,No,No,PI,SR @ 162.6-162.8', 163.3-163.8'																																										
										163.3										DOLOMITE; gray; (Salina Group - Unit F)																																										
										163.8										BRECCIA; dolomite clasts in a poorly indurated to indurated claystone matrix; light brownish gray; fresh; w/clasts of dolomite; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																										
										164.0										164 417																																										
										165																																																				

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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																												
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																																																		
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07																																																																		
SAMPLING										LOGGED BY Bonnie <sup>TP</sup>										CHECKED BY Dogbey/Bonnie <sup>TP</sup>										APPROVED BY Meyer <sup>EM</sup>																																																																		
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																										
HQ							37			2.5		0.1		0.0		4		0		165						416			dolomite band; gray @ 165.0-165.2																																																																			
																		166						415																																																																								
																		167						414																																																																								
HQ							38			2.5		0.15		0.0		6		0		168						413																																																																						
																		169						412																																																																								
HQ							39			2.5		0.0		0.0		0		0		170						411																																																																						
																		171						410																																																																								
HQ							40			2.5		0.0		0.0		0		0		172						409																																																																						
																		173						408																																																																								
																		174						407																																																																								
HQ							41			2.5		0.8		0.0		32		0		175						406			<p>BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray &amp; grayish brown; strong; hard; (Salina Group - Unit F).</p> <p>0°,B,VN,No,No,PI,SR @ 177.1'</p> <p>LIMESTONE; grayish brown; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 0°,B,VN,No,No,PI,SR @ 177.7', 178.2'</p> <p>BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray &amp;</p>																				<p>Water level @ 22.3' prior to drilling on 08/23/07.</p>																																															
																		176						405																																																																								
																		177						404																																																																								
HQ							42			2.5		1.9		1.1		76		44		178						403																																																																						
																		179						402																																																																								
																				180																																																																												



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 13 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																											
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7'										GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)																																																																	
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07																																																																	
SAMPLING										LOGGED BY Bonnie TB										CHECKED BY Dodgey/Bonnie TB										APPROVED BY Meyer																																																																	
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																								
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																								
HQ 43 2.5 0.2 0.0 8 0										180																				401																				grayish brown; strong; hard; (Salina Group - Unit F).																																													
										181																				400																																																																	
										181.5																																																																																					
HQ 44 2.5 0.0 0.0 0 0										182																				399																																																																	
										183																				398																																																																	
										184																				397																																																																	
HQ 45 2.5 0.0 0.0 0 0										185																				396																																																																	
										186																				395																																																																	
										186.5																																																																																					
HQ 46 2.5 0.2 0.0 8 0										187																				394																																																																	
										188																				393																																																																	
										189																				392																																																																	
HQ 47 2.5 0.6 0.0 24 0										190																				391																																																																	
										191																				390																																																																	
										191.5																																																																																					
HQ 48 2.5 1.5 0.0 60 0										192																				389																																																																	
										193																				388																																																																	
										194																				387																																																																	
										195																																																																																					

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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 14 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)									
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07									
SAMPLING										LOGGED BY Bonnie <sup>TP</sup>										CHECKED BY Dodgey/Bonnie <sup>TP</sup>										APPROVED BY Meyer									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																
CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																	
HQ	49	2.5	1.7	0.0	68	0	195	386		fractured @ 194.7-195.5'	<p>80°, J, VN, No, No, PI, SR @ 195.5-195.7'</p> <p>BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray &amp; grayish brown; strong; hard; (Salina Group - Unit F). large clasts of limestone @ about 197.5'</p> <p>Core box #10 starts @ 199.0'.</p>																												
HQ	50	2.5	1.0	0.0	40	0	196	385		196.4																													
HQ	51	5.0	2.45	1.4	49	28	197	384		203.5																													
HQ	52	5.0	2.7	0.9	54	18	204	377		207.7																													
							205	376																															
							206	375																															
							207	374																															
							208	373																															
							209	372																															
							210																																

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 15 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)									
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07									
SAMPLING										LOGGED BY Bonnie <sup>TB</sup>										CHECKED BY Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Meyer <sup>Em</sup>									
SAMPLE TYPE		SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	ROD																																
HQ	53	5.0	2.9	0.0	58	0			210		371		limestone band; brownish gray @ 211.0-211.2' 90° J,VN,No,No,PI,SR @ 211.2-211.75', 212.8-213.0' grades w/fossils @ 211.2' 0° B,VN,No,No,PI,SR @ 211.4', 212.1', 212.5', 212.8', 213.1' 65° J,VN,No,No,PI,SR @ 211.75-211.5' limestone; brownish gray/gray @ 212.5-212.8' -----213.5' <u>LIMESTONE</u> ; gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F) -----214.5' <u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; w/fossils (Salina Group - Unit F). fractured @ 214.5-215.0' 90° V,N,UK,Fi,PI,SR @ 215.1-215.3' 10° J,VN,UK,Fi,PI,SR @ 215.3' convoluted bedding; w/brecciation @ 215.5-215.7' 60° J,VN,No,No,PI,SR @ 215.7-216.1' grades gray @ 215.7' 0° B,VN,No,No,PI,SR @ 216.0', 216.1', 216.2', 216.3' -----216.5' <u>LIMESTONE</u> ; very dark grayish brown; micritic; fresh; strong; hard (Salina Group - Unit F). fractured @ 216.5-217.5' 60° J,VN,No,No,PI,SR @ 217.8-218.2' 0° B,VN,UK,Sp,PI,SR @ 218.1' -----218.2' <u>DOLOMITE</u> ; light grayish brown; micritic; fresh; strong; hard; w/fossils (Salina Group - Unit F). grades light brownish gray @ 218.3' 90° J,VN,No,No,PI,SR @ 218.4-218.6' shale parting - 0° B,VN,PI,SR @ 218.4', 218.6' grades dark grayish brown @ 218.6' -----220.0' <u>BRECCIA</u> ; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F). shale partings - 0° B,VN,PI,SR @ 221.7', 222.0', 222.2', 222.4' breccia; limestone matrix; dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; grayish brown; micritic; fresh; strong; hard @ 222.5-222.8' 40° J,VN,No,No,PI,SR @ 222.8-223.0'	Water level @ 23.3' prior to drilling on 08/24/07.																									
								211		370																													
								212		369																													
								213		368																													
								214		367																													
								215		366																													
HQ	54	5.0	2.9	0.95	58	19		216		365																													
								217		364																													
								218		363																													
								219		362																													
								220		361																													
								221		360																													
HQ	55	5.0	1.2	0.0	24	0		222		359																													
								223		358																													
								224		357																													
								225																															

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CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6050.7'					E 4451.3'					581.1 ft (NAVD 88)		271.3 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Earth berm										Plant					08/14/07		08/25/07				
SAMPLING							LOGGED BY					CHECKED BY			APPROVED BY						
							Bonnie <sup>TS</sup>					Dogbey/Bonnie <sup>TS</sup>			Meyer						
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS			REMARKS							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS			REMARKS							
HQ	56	2.5	0.3	0.0	12	0	225		356		limestone band; dark gray @ 225.0-225.1'			Core box #11 starts @ 229.0'.							
							226		355		dolomite band; gray @ 225.1-225.4'										
							226.5				30°,J,VN,No,No,PI,SR @ 225.2-225.3', 225.3-225.4'										
HQ	57	2.5	0.3	0.0	12	0	227		354		dolomite band; gray @ 227.0-227.1'										
							228		353		limestone band; dark gray @ 227.1-227.2'										
							228				dolomite band; gray @ 227.2-227.4'										
							229				10°,J,VN,No,No,PI,SR @ 227.2', 227.4'										
							229				90°,J,VN,No,No,PI,SR @ 227.25-227.35'										
HQ	58	2.5	0.4	0.0	16	0	230		351		dolomite band; gray @ 230.0-230.4'										
							231		350												
							231.5														
HQ	59	2.5	0.7	0.0	28	0	232		349												
							233		348		DOLOMITE; gray; (Salina Group - Unit F) fractured @ 232.4-232.8'										
							234		347		0°,B,VN,Cl,Sp,PI,SR @ 232.8'										
							234				BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).										
HQ	60	2.5	1.1	0.0	44	0	235		346		grades claystone; gray; slightly weathered; very weak; soft; w/clasts of dolomite; gray @ 234.5										
							236		345		LIMESTONE; dark gray; (Salina Group - Unit F). fractured @ 235.0-235.8'										
							236				0°,B,VN,No,No,PI,SR @ 235.0', 235.8', 236.0'										
							236.5				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).										
							237		344		70°,J,VN,No,No,PI,SR @ 235.8-236.0'										
HQ	61	2.5	1.9	1.0	76	40	238		343		BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).										
							238				dolomite band; light grayish brown; 5% vuggy @ 237.1-237.2'										
							239		342		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).										
							239				0°,B,VN,No,No,PI,SR @ 237.3', 237.55', 237.7'										
							240				shale partings @ 237.7', 237.75'										
											DOLOMITE; light brownish gray; micritic; fresh;										



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C10

SHEET 17 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6050.7'				GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)				TOTAL DEPTH 271.3 (feet)	
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				DATE FINISHED 08/25/07	
SAMPLING				LOGGED BY Bonnie <sup>TB</sup>				CHECKED BY Dogbey/Bonnie <sup>TB</sup>				APPROVED BY Meyer <sup>EM</sup>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	62	5.0	4.5	2.0	90	40	240		341		strong; hard; w/fossils; (Salina Group - Unit E). shale partings - 0°, B, VN, PI, SR @ 237.8', 238.2', 238.9' fossils @ 237.75-237.7', 238.3-238.4', 238.75-238.9' 70°, J, VN, No, No, PI, R @ 239.4-239.7' 60°, J, VN, No, No, PI, SR @ 239.7-240.0' 80°, J, T, No, No, Ir, R @ 240.8-241.7' fossils @ 241.3-244.0' 55°, J, T, No, No, PI, SR @ 241.5-241.7' 20°, J, T, No, No, PI, SR @ 241.7-241.8' 90°, J, T, No, No, PI, SR @ 241.8-242.1' 10°, J, T, No, No, PI, SR @ 242.05-242.1' 0°, B, T, No, No, PI, SR @ 242.7', 243.3', 243.4', 243.5'		
HQ	63	5.0	4.8	3.7	96	74	244		337		shale partings - 0°, B, VN, PI, SR @ 244.2', 245.4', 246.35' fossils @ 244.4-244.8', 245.0-245.45', 246.2-246.4', 246.6-247.3' 10°, J, T, No, No, PI, SR @ 245.1' 90°, J, T, No, No, PI, SR @ 245.1-245.2' shale partings @ 245.45', 245.55', 245.65' 0°, B, T, No, No, PI, SR @ 245.6', 246.85' 80°, J, T, No, No, PI, SR @ 246.7-246.85'		
HQ	64	5.0	5.0	4.8	100	96	249		332		fossils @ 248.8-250.2'	Core box #12 starts @ 249.0'.	
							250		331		0°, J, VN, No, No, PI, SR @ 250.6' 0°, J, VN, CI, Sp, PI, SR @ 250.85', 250.95'		
							251		330		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, CI, Sp, PI, SR @ 251.3'		
							252		329		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/anhydrite nodules & veins; (Salina Group - Unit E).		
							253		328		DOLOMITE; gray; micritic; fresh; strong; hard; 5% vugs; anhydrite filled; (Salina Group - Unit E). shale parting - 10°, V, PI, S @ 253.15'		
							254		327		0°, J, VN, No, No, PI, SR @ 254.1', 254.2', 254.3' shale band; very dark gray @ 254.3-254.5'		
							255						

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 271.3 (feet)									
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant										DATE START 08/14/07										DATE FINISHED 08/25/07									
SAMPLING										LOGGED BY Bonnie <sup>TP</sup>										CHECKED BY Dogbey/Bonnie <sup>TP</sup>										APPROVED BY Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
HQ	65	5.0	4.8	4.1	96	82	255		326		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/shale & gypsum partings; (Salina Group - Unit E). convoluted bedding @ 254.5-255.1' 20° J,VN,CI,FI,PI,S @ 255.7-256.0'																												
							256		325		DOLOMITE; gray to grayish brown; micritic; fresh; strong; hard; w/gypsum nodules & veins along w/shale partings; (Salina Group - Unit E). 0° J,VN,No,No,PI,SR @ 257.4'																												
							257		324																														
							258		323		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/gypsum bands, nodules, & shale partings; (Salina Group - Unit E). 0° B,VN,CI,FI,PI,SR @ 257.95', 260.05', 260.1' 0° J,VN,No,No,PI,SR @ 259.2', 259.3'																												
HQ	66	1.1	1.1	0.65	100	59	259		322			Core box #13 starts @ 259.0'																											
							260		321		claystone band @ 259.95-260.5'																												
							261		320		0° J,VN,No,No,PI,S @ 260.7'																												
HQ	67	3.9	3.9	3.7	100	95	262		319		DOLOMITE; gray; micritic; fresh; strong; hard; w/shale parting; (Salina Group - Unit E). 0° J,VN,No,No,PI,S @ 261.3', 262.1'																												
							263		318		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/gypsum veins parting & shale parting; (Salina Group - Unit E). 20° V,W,Gy,FI,PI,S @ 262.5-262.6', 262.8-262.9', 263.85-263.95' pale yellow @ 262.6-263.0' 0° J,VN,No,No,PI,S @ 262.8', 263.45', 263.8' light gray @ 263.1-263.5' 0° V,MW to W,Gy,FI,PI,S @ 264.0' 0° J,VN,Gy,Sp,PI,SR @ 264.2', 264.8', 264.9'																												
							264		317																														
							265		316																														
HQ	68	5.0	5.0	4.7	100	94	266		315		DOLOMITE; brownish gray; micritic; fresh; strong; hard; w/gypsum veins & nodule, anhydrite veins, & shale partings; (Salina Group - Unit E). 0° V,MW to W,Gy,FI,PI,S @ 265.4', 266.2-266.4', 266.5-266.6', 266.8-266.9' 0° J,VN,Gy,Sp,PI,SR @ 265.8', 266.9' 0° V,MW,anhydrite,FI,PI,S @ 266.4', 266.55' convoluted bedding w/gypsum nodules @ 267.1-267.4'	Very Hard drilling @ 262'																											
							267		314																														
							268		313		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 0° J,VN,Gy,Sp,PI,SR @ 267.5'																												
							269		312		DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).																												
							270																																

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CLIENT						PROJECT				SHEET NO. OF TOTAL SHEETS		
Detroit Edison						Fermi 3 COL Application				PROJECT NO. 147483		
PROJECT LOCATION Monroe, MI			COORDINATES N 6050.7'			GROUND ELEVATION (DATUM) E 4451.3'      581.1 ft (NAVD 88)			TOTAL DEPTH 271.3 (feet)			
SURFACE CONDITIONS Earth berm						COORDINATE SYSTEM Plant		DATE START 08/14/07		DATE FINISHED 08/25/07		
SAMPLING									LOGGED BY Bonnie TB		CHECKED BY <i>[Signature]</i> Dogbey/Bonnie TB	APPROVED BY <i>[Signature]</i> Meyer
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	69	2.3	2.3	2.1	100	91	270		311		shale parting - 0°, B, VN, Sp, PI, S @ 270.55' shale parting - 0°, B, VN, Sp, WA, S @ 270.7'	
							271		310			
							272		309		Bottom of Boring @ 271.3'. Water level @ 22.7' @ completion of drilling. Boring caved @ 139.2'. Boring backfilled from 271.3' w/ bentonite chips to 50' below ground surface on 09/11/07. Continued w/ bentonite chips to 10' below ground surface on 09/20/07. Continued w/ bentonite chips to 3' below ground surface, then gravel to surface on 09/21/07.	
							273		308			
							274		307			
							275		306			
							276		305			
							277		304			
							278		303			
							279		302			
							280		301			
							281		300			
							282		299			
							283		298			
							284		297			
							285					



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C11

SHEET 1 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6051.8' E 4534.6'				GROUND ELEVATION (DATUM) 580.0 ft (NAVD 88)				TOTAL DEPTH 135.5 (feet)	
SURFACE CONDITIONS Gravel Parking Area						COORDINATE SYSTEM Plant		DATE START 08/23/07		DATE FINISHED 08/28/07			
SAMPLING						LOGGED BY Grainger/Mass/Bonnie		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	1		3.5			2.5	0		580		Gravelly <u>COBBLES</u> - About 60% angular; cubical to elongated; hard; cobble w/max size 10"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular, hard sand; about 5% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
							1		579				
							2		578				
							3		577				
							4		576				
							5		575				
							6		574				
							7		573				
							8		572				
							9		571				
							10		570				
			10.0				11		569				
							12		568				
S	2					3.5	13		567		<u>PEAT</u> (PT) - About 100% plant tissue; black; moist; fibrous.	Discrete sample SC2 collected from S2.	
							14		566		<u>Lean CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; dark greenish gray & brown, mottled; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).		
							15		565				



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C11

SHEET 2 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6051.8'		GROUND ELEVATION (DATUM) E 4534.6'		580.0 ft (NAVD 88)		TOTAL DEPTH 135.5 (feet)		
SURFACE CONDITIONS Gravel Parking Area						COORDINATE SYSTEM Plant		DATE START 08/23/07		DATE FINISHED 08/28/07		
SAMPLING						LOGGED BY Grainger/TB Mass/Bonnie		CHECKED BY Dobey/TB Bonnie		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS				REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
CORING												
								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	
								15		565		
TW	3		15.5				1.3	16		564		
								17		563		
								18		562		
SPT	4	2	5	8	13	1.5		19		561		
								20		560		
								21		559		
TW	5					1.7		22		558		
								23		557		
SPT	6	8	25	37	62	1.3		24		556		
								25		555		
								26		554		
SPT	7	10	15	50/0"	50+	0.8		27		553		
			27.0					28		552		
S	8					3.5		29		551		
								30		550		

Lean CLAY (CL) - About 100% medium plasticity, low toughness, no dilatancy, high dry strength fines; dark grayish brown; stiff; moist; weak reaction w/HCl; homogeneous; (Lacustrine Deposit).

Lean CLAY with Sand (CL) - About 80% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 20% fine to coarse, subrounded to angular, hard sand; trace fine, subrounded, flat, hard gravel; grayish brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

Sandy Lean CLAY (CL) - About 65% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 25% fine to coarse, subrounded to angular, hard sand; about 10% fine to coarse, subangular, hard gravel, fragments fracture w/1 hammer blow; gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

Clayey SAND (SC) - About 60% fine to coarse, subangular to angular, hard sand; about 35% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 5% fines, subangular, hard gravel; gray; dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).

DOLOMITE; crystalline; gray; micritic; slightly weathered; strong; hard; highly fractured; (Bass Islands Group).

Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. Water level @ 15.0' prior to drilling on 08/24/07. PP = 2.5 TSF @ 17.5'. TV = 0.6 TSF @ 17.5'.

PP = 4.5 TSF @ 22.5'. T = 0.71 TSF @ 22.5'.

Tricone refusal @ 27.0'. Below 27.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C11

SHEET 3 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6051.8' E 4534.6'										GROUND ELEVATION (DATUM) 580.0 ft (NAVD 88)										TOTAL DEPTH 135.5 (feet)																																																																																																																																			
SURFACE CONDITIONS Gravel Parking Area										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/28/07																																																																																																																																			
SAMPLING										LOGGED BY Grainger/Mass/Bonnie <sup>TB</sup>										CHECKED BY Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Meyer <sup>EM</sup>																																																																																																																																			
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td>30</td> <td></td> <td>550</td> <td></td> <td></td> <td>w/sampler. Sonic core stored in box labeled SC1. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 4.3' @ Start of coring</td> </tr> <tr> <td>31</td> <td></td> <td>549</td> <td></td> <td>DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 90° J, VN, No, No, PI, SR @ 31.25-32.25' 0° B, VN, No, No, PI, SR @ 31.25', 31.45', 32.8', 33.38'</td> <td></td> </tr> <tr> <td>32</td> <td>HQ</td> <td>548</td> <td></td> <td>shale parting - 0° B, VN, Sp, PI, SR @ 32.25'</td> <td></td> </tr> <tr> <td>33</td> <td></td> <td>547</td> <td></td> <td></td> <td></td> </tr> <tr> <td>34</td> <td></td> <td>546</td> <td></td> <td>90° J, VN, No, No, PI, SR @ 33.65-34.5', 33.65-34.1' shale parting - 0° B, VN, Sp, PI, SR @ 33.65', 34.1'</td> <td></td> </tr> <tr> <td>35</td> <td></td> <td>545</td> <td></td> <td>90° J, VN, No, No, PI, SR @ 34.5-35.0' 0° B, VN, No, No, PI, SR @ 34.7', 34.8', 35.0', 35.6' fractured @ 35.0-35.1' anhydrite filled vug @ 35.1'</td> <td></td> </tr> <tr> <td>36</td> <td></td> <td>544</td> <td></td> <td>shale parting - 0° B, VN, Fi, PI, SR @ 35.95'</td> <td></td> </tr> <tr> <td>37</td> <td>HQ</td> <td>543</td> <td></td> <td>DOLOMITE; slightly mottled; light gray &amp; dark gray; micritic; fresh; strong; hard; (Bass Islands Group). SHALE; very dark gray; very fine grained; fresh; weak; low hardness; (Bass Islands Group).</td> <td></td> </tr> <tr> <td>38</td> <td></td> <td>542</td> <td></td> <td>DOLOMITE; light gray and very dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group). 0° B, T, No, No, PI, SR @ 38.5' 70° J, T, CI, Sp, PI, SR @ 38.5-38.7'</td> <td></td> </tr> <tr> <td>39</td> <td></td> <td>541</td> <td></td> <td>SHALE; very dark gray; very fine grained; fresh; weak; low hardness; (Bass Island Group).</td> <td></td> </tr> <tr> <td>40</td> <td></td> <td>540</td> <td></td> <td>DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/shell fossil imprint; (Bass Islands Group). shale parting - 0° B, VN, Sp, PI, SR @ 39.65' 0° B, VN, No, No, PI, SR @ 40.0' shale parting - 0° B, VN, Sp, PI, SR @ 40.1'</td> <td></td> </tr> <tr> <td>41</td> <td></td> <td>539</td> <td></td> <td></td> <td></td> </tr> <tr> <td>42</td> <td>HQ</td> <td>538</td> <td></td> <td>DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/fossil voids up to 0.4"; (Bass Islands Group). 50° J, T, No, No, PI, SR @ 40.3-40.55' 40° J, T, No, No, PI, SR @ 40.6-40.8' shale partings - 0° B, VN, Sp, PI, SR @ 41.2', 41.3', 41.8'</td> <td></td> </tr> <tr> <td>43</td> <td></td> <td>537</td> <td></td> <td></td> <td></td> </tr> <tr> <td>44</td> <td></td> <td>536</td> <td></td> <td></td> <td></td> </tr> <tr> <td>45</td> <td></td> <td>535</td> <td></td> <td>pitted @ 44.8-45.2'</td> <td>Core box #2 starts @ 44.5'</td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	30		550			w/sampler. Sonic core stored in box labeled SC1. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 4.3' @ Start of coring	31		549		DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 90° J, VN, No, No, PI, SR @ 31.25-32.25' 0° B, VN, No, No, PI, SR @ 31.25', 31.45', 32.8', 33.38'		32	HQ	548		shale parting - 0° B, VN, Sp, PI, SR @ 32.25'		33		547				34		546		90° J, VN, No, No, PI, SR @ 33.65-34.5', 33.65-34.1' shale parting - 0° B, VN, Sp, PI, SR @ 33.65', 34.1'		35		545		90° J, VN, No, No, PI, SR @ 34.5-35.0' 0° B, VN, No, No, PI, SR @ 34.7', 34.8', 35.0', 35.6' fractured @ 35.0-35.1' anhydrite filled vug @ 35.1'		36		544		shale parting - 0° B, VN, Fi, PI, SR @ 35.95'		37	HQ	543		DOLOMITE; slightly mottled; light gray & dark gray; micritic; fresh; strong; hard; (Bass Islands Group). SHALE; very dark gray; very fine grained; fresh; weak; low hardness; (Bass Islands Group).		38		542		DOLOMITE; light gray and very dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group). 0° B, T, No, No, PI, SR @ 38.5' 70° J, T, CI, Sp, PI, SR @ 38.5-38.7'		39		541		SHALE; very dark gray; very fine grained; fresh; weak; low hardness; (Bass Island Group).		40		540		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/shell fossil imprint; (Bass Islands Group). shale parting - 0° B, VN, Sp, PI, SR @ 39.65' 0° B, VN, No, No, PI, SR @ 40.0' shale parting - 0° B, VN, Sp, PI, SR @ 40.1'		41		539				42	HQ	538		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/fossil voids up to 0.4"; (Bass Islands Group). 50° J, T, No, No, PI, SR @ 40.3-40.55' 40° J, T, No, No, PI, SR @ 40.6-40.8' shale partings - 0° B, VN, Sp, PI, SR @ 41.2', 41.3', 41.8'		43		537				44		536				45		535		pitted @ 44.8-45.2'	Core box #2 starts @ 44.5'
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																																																											
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CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6051.8'					E 4534.6'					580.0 ft (NAVD 88)					135.5 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel Parking Area										Plant					08/23/07					08/28/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Granger/Mass/Bonnie					Dogbey/Bonnie					Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS												
CORING																													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																							
HQ	4	5.0	5.0	4.1	100	82	45		535			0°,B,VN,No,No,PI,SR @ 44.9', 45.1', 48.1', 48.5'																	
							46		534			DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group).																	
							47		533			20°,J,VN,No,No,PI,SR @ 46.5-46.7', 46.3-46.4'																	
							48		532			no stylolites or banding @ 47.9-48.5'																	
							49		531			grades dark grayish brown @ 48.75' 90°,J,T,No,No,PI,SR @ 48.75-48.9' (2 parallel joints)																	
			49.5				50		530			DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).																	
							51		529			90°,J,VN,No,No,Ir,R @ 50.4-51.2' fractured @ 50.8-50.9'																	
HQ	5	5.0	5.0	3.7	100	74	52		528			0°,B,VN,No,No,PI,SR @ 51.2' slightly mottled dolomite, gray & dark gray @ 51.35-51.4' 0°,J,VN,CI,Sp,PI,SR @ 51.35' grades very fine grained @ 51.5' pyrite (0.01") @ 51.5'																	
							53		527			DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°,J,VN,CI,Sp,PI,SR @ 51.75' 0°,J,VN,No,No,PI,SR @ 52.4'																	
							54		526																				
			54.5				55		525			0°,J,T,CI,FI,Ir,SR (slightly weathered) @ 54.5'																	
							56		524			DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).																	
							57		523			DOLOMITE; brecciated, healed; grayish brown; fresh; strong; hard; (Bass Islands Group). shale parting @ 55.5' 90°,J,VN,No,No,PI,SR @ 55.6-57.1'																	
HQ	6	5.0	4.8	3.4	96	68	58		522			DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°,B,VN,Sp,PI,SR @ 55.9',56.1',56.6', 57.55' convoluted bedding @ 56.2-57.7' 60°,J,T,No,No,PI,SR @ 57.3-57.8' shale parting (0.25") @ 57.8-57.85'																	
							59		521			DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 10°,J,VN,No,No,PI,SR @ 58.2', 58.25' shale partings - 0°,B,VN,Sp,PI,SR @ 58.7', 59.3',60.0'																	
			59.5				60		520																				





BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C11

SHEET 5 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6051.8' E 4534.6'										GROUND ELEVATION (DATUM) 580.0 ft (NAVD 88)										TOTAL DEPTH 135.5 (feet)															
SURFACE CONDITIONS Gravel Parking Area										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/28/07															
SAMPLING										LOGGED BY Grainger/Mass/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N		VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																																	
HQ		7		5.0		5.0		2.6		100		52		60		520								DOLOMITE; greenish gray & dark greenish gray, banded; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, VN, No, No, PI, SR @ 60.5-61.1', 62.2-62.9' fractured @ 61.0-61.3' shale parting - 0°, B, VN, FI, PI, SR @ 61.3' 10° bedding angle @ 61.5-62.2' shale parting - 10°, B, VN, Sp, PI, SR @ 62.1' 0°, B, T, No, No, PI, SR @ 62.4' fractured @ 63.0-63.1'																					
HQ		8		5.0		5.0		3.7		100		74		61		519								DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 30°, J, T, No, No, PI, SR @ 64.3-64.5'																					
HQ		9		5.0		4.8		4.2		96		84		62		518								DOLOMITE; brecciated, healed; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). DOLOMITE; brecciated, healed; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 60°, J, T, No, No, Ir, R @ 68.1-68.4' fractured @ 68.2-68.6' 90°, J, T, No, No, PI, SR @ 68.6-69.0' anhydrite filled vugs @ 69.1-69.5'																				Core box #4 starts @ 69.5'.	
														63		517																													
														64		516																													
														65		515																													
														66		514																													
														67		513																													
														68		512																													
														69		511																													
														70		510																													
														71		509																													
														72		508																												No drilling fluid return @ 72.0'.	
														73		507																													
														74		506																													
														75		505								DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 75°, J, VN, No, No, PI, R @ 73.9-74.0' 60°, J, VN, No, No, PI, R @ 74.2-74.3' 90°, J, T, No, No, PI, SR @ 74.3-74.4', 74.6-74.9', 75.1-75.6'																					

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6051.8' E 4534.6'		580.0 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel Parking Area		Plant		08/23/07	
SAMPLING		LOGGED BY		CHECKED BY	
		Granger/Mass/Bonnie		Dogbey/Bonnie	
APPROVED BY					
Meyer					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
75		505		fractured @ 74.6-74.9'	
76		504		DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group). 0° B, VN, No, No, PI, SR @ 75.3', 75.4', 75.6' 30° J, T, No, No, PI, SR @ 75.6-75.9'	
77	HQ	503		shale partings - 0° B, VN, Sp, PI, SR @ 76.9', 77.35', 78.25'	
78		502			
79		501		shale parting @ 78.4' dolomite; mottled; light gray & dark gray @ 78.5-78.6'	
80		500		SHALE; very dark gray; fresh to slightly weathered; strong to moderately strong; hard to low hardness; (Bass Islands Group).	
81		499		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90° J, VN, No, No, Pa, SR @ 79.0-79.5' 0° B, VN, No, No, PI, SR @ 80.0' 10° J, VN, No, No, PI, R @ 80.3-80.4' 10° J, VN, Cl, Sp, WA, R @ 80.9'	
82	HQ	498		calcite filled fractures @ 81.3-81.5' brecciated, healed @ 81.6-81.8'	
83		497		brecciated, healed @ 83.2-83.4'	
84		496		shale parting - 0° B, VN, Sp, PI, SR @ 84.0' 90° J, T, No, No, PI, SR @ 84.1-84.4', 85.0-85.1'	
85		495		0° B, VN, No, No, PI, SR @ 85.2'	Core box #5 starts @ 84.5'
86		494		40° J, T, No, No, PI, SR @ 85.8-85.9' 20° J, VN, Cl, Sp, PI, SR @ 86.2-86.3'	
87	HQ	493		shale parting - 0° B, VN, Fi, PI, SR @ 86.4'	
88		492		DOLOMITE; brecciated, healed; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 30° J, VN, No, No, PI, SR @ 86.8-86.9'	
89		491			
90		490		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 10° J, VN, Cl, Sp, PI, SR @ 88.8', 89.1' brecciated, healed @ 89.2-89.4'	

**BLACK & VEATCH**

# BORING LOG

BORING NO. RB-C11

SHEET 7 OF 10

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6051.8'					E 4534.6'					580.0 ft (NAVD 88)		135.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel Parking Area										Plant					08/23/07		08/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Mass/Bonnie					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS					
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS					
HQ	13	5.0	5.0	3.9	100	78		90		490		shale partings - 0°,B,VN,Sp,PI,SR @ 90.4',90.6',91.1'									
								91		489		50°,J,T,No,No,PI,SR @ 91.0'									
								92		488		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; laminated; w/stylolites; (Bass Islands Group).									
								93		487		shale partings - 0°,B,VN,Sp,PI,SR @ 91.5',91.6',91.75',92.0',92.3'									
								94		486		shale partings - 0°,B,VN,Sp,PI,SR @ 92.85',93.3'									
			94.5					95		485		shale partings - 0°,B,VN,Sp,PI,SR @ 94.3',94.05'									
HQ	14	5.0	5.0	3.8	100	76		96		484		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). fractured @ 95.0-95.1'									
								97		483		shale partings - 0°,B,T,Sp,PI,SR @ 95.0',95.1',95.6',96.5',96.55',96.65',96.75',97.1'									
								98		482		grades grayish brown @ 96.2'									
								99		481		90°,J,T,No,No,PI,SR @ 96.5-96.65'									
								100		480		10°,J,T,Ci,Sp,PI,SR @ 96.85'									
			99.5					101		479		shale partings - 0°,B,VN,Sp,PI,SR @ 98.1',98.3',98.5'									
HQ	15	5.0	4.3	3.0	86	60		102		478		shale partings - 0°,B,VN,Sp,PI,SR @ 99.8',102.1'									
								103		477		60°,J,VN,No,No,PI,SR @ 100.2-100.5'									
								104		476		30°,J,VN,Ci,Sp,PI,SR @ 102.0-102.1'									
								105		475		60°,J,VN,Ci,Sp,PI,SR @ 102.35-102.65'									
												DOLOMITE; light olive brown to grayish brown; micritic; fresh; strong; hard w/stylolites; (Bass Islands Group).									
												10°,J,VN,Ci,Sp,PI,SR @ 102.8',103.4',103.5'									
												30°,J,VN,Ci,Sp,PI,SR @ 102.9'									
												80°,J,VN,No,No,PI,SR @ 104.0-104.1'									
			104.5									fractured @ 104.5-104.6'									

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C11

SHEET 8 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6051.8'					GROUND ELEVATION (DATUM) E 4534.6'					580.0 ft (NAVD 88)					TOTAL DEPTH 135.5 (feet)	
SURFACE CONDITIONS Gravel Parking Area										COORDINATE SYSTEM Plant					DATE START 08/23/07					DATE FINISHED 08/28/07	
SAMPLING										LOGGED BY Grainger/Mass/Bonnie					CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	16	5.0	4.9	4.3	98	86		105		475											
								106		474		30°, J, T, No, No, PI, R @ 106.2', 106.3'									
								107		473		60°, J, VN, No, No, PI, SR @ 107.5-107.8'									
								108		472		0°, B, VN, No, No, PI, SR (weathered) @ 108.15'									
								109		471											
								109.5				DOLOMITE; brown; micritic; fresh; strong; hard; slightly brecciated, healed; (Bass Islands Group). 30°, J, VN, No, No, PI, SR @ 109.3-109.4' 0°, B, VN, No, No, PI, SR @ 109.9', 110.7'					Core box #7 starts @ 109.5'				
HQ	17	5.0	4.5	1.8	90	36		110		470											
								111		469		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). 10°, J, VN, No, No, PI, SR @ 111.3' shaley dolomite band; very dark gray; medium hard @ 111.4-111.6'									
								112		468		0°, B, VN, No, No, PI, SR @ 111.5', 111.7', 111.9', 112.0', 112.1', 112.3', 112.4', 112.7' brecciated @ 111.6-111.9'									
								113		467		90°, J, T, No, No, PI, SR @ 112.0-113.0' (two orthogonal joints)									
								114		466		fractured @ 112.7-113.0' DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°, B, VN, No, No, PI, SR @ 112.9', 113.0', 113.5'									
								115		465		DOLOMITE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). shaley dolomite band, very dark gray, moderately hard @ 113.7-113.9'									
								116		464		90°, J, VN, Ca, Fi, PI, SR @ 114.0-114.5'									
HQ	18	5.0	4.6	2.8	92	56		117		463		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded; w/anhydrite veins & interbedding; (Salina Group - Unit F). 90°, J, VN, No, No, PI, SR @ 115.0-115.6'									
								118		462		0°, B, VN, No, No, PI, SR @ 115.0', 115.2', 116.3', 117.7', 118.1'									
								119		461		anhydrite vein @ 115.6-115.8' anhydrite beds @ 116.1-116.6' shale parting - 0°, B, VN, Sp, PI, SR @ 116.5' limestone @ 116.6-116.9' fractured dolomite @ 116.9-117.2'									
								119.5				anhydrite vein @ 117.25' gray @ 117.7-118.0'					Run 14 core loss @ 119.5-121.6'				
								120		460											



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## BORING LOG

BORING NO. RB-C11

SHEET 9 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6051.8' E 4534.6'										GROUND ELEVATION (DATUM) 580.0 ft (NAVD 88)										TOTAL DEPTH 135.5 (feet)													
SURFACE CONDITIONS Gravel Parking Area										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/28/07													
SAMPLING										LOGGED BY G.D. Lee TB for Grainger/Mass/Bonnie TB										CHECKED BY TB Dogbey/Bonnie TB										APPROVED BY EM Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																															
HQ		19		6.0		3.4		0.0		57		0		120				460				anhydrite vein @ 118.0-118.3' anhydrite vein @ 119.3' dolomite & dolomitic shale bed; gray & brown; very fine grained; slightly weathered; strong; hard @ 121.6-122.0' 50°, J, Ca, Pa, PI, SR @ 121.6'																					
														121				459				Silty SAND - About 70% fine sand; about 30% low plasticity, low toughness, slow to rapid dilatancy fines; greenish gray; soft; moist; no odor; strong reaction w/HCl; homogeneous; (Salina Group - Unit F). DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded; w/anhydrite veins & interbedding; (Salina Group - Unit F). 80°, J, Cl, Pa, PI, SR @ 123.0-123.6' dolomite beds; gray; micritic; fresh; strong; hard @ 123.4-123.5', 124.3-124.6'																					
														122				458				DOLOMITE; argillaceous; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, J, Ca, Pa, PI, SR @ 124.5' limestone bed; pitted; argillaceous; very dark gray; very fine grained; slightly weathered; strong; hard @ 124.6-125.0'																					
														123				457				DOLOMITE & CLAYSTONE; argillaceous; dark gray to gray; micritic; fresh to slightly weathered; strong to weak; hard to low hardness; (Salina Group - Unit F). limestone; argillaceous; gray; micritic; fresh; strong; hard @ 126.5-126.8' 0°, B, VN, No, No, PI, SR @ 126.8', 127.7', 128.8' dolomite @ 126.8-127.1' claystone; highly weathered @ 127.1-127.5'																					
														124				456				DOLOMITE; (Salina Group - Unit F) 70°, J, T, No, No, PI, SR @ 127.6-127.8'																					
														125				455				CLAYSTONE; highly fractured; (Salina Group - Unit F)																					
														126				454				DOLOMITE & CLAYSTONE; argillaceous; dark gray to gray; micritic; fresh to slightly weathered; strong to weak; hard to low hardness; (Salina Group - Unit F). dolomite band @ 128.6-128.8' claystone band @ 128.8-129.0 dolomite @ 129.0-129.3' 60°, J, T, No, No, PI, SR @ 130.8-130.9'																				Core box #8 starts @ 125.5'.	
														127				453				CLAYSTONE; (Salina Group - Unit F) limestone band @ 131.9-132.0'																					
														128				452				DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 60°, J, VN, No, No, PI, SR @ 132.1-133.3' 0°, B, VN, No, No, PI, SR @ 132.1', 132.7', 132.8', 133.0', 133.4' 134.4'																					
														129				451				CLAYSTONE; (Salina Group - Unit F) limestone band @ 131.9-132.0'																					
														130				450				DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 60°, J, VN, No, No, PI, SR @ 132.1-133.3' 0°, B, VN, No, No, PI, SR @ 132.1', 132.7', 132.8', 133.0', 133.4' 134.4'																					
														131				449				CLAYSTONE; (Salina Group - Unit F) limestone band @ 131.9-132.0'																				Sample 8A taken from HQ21 @ 131.0-131.9'.	
														132				448				DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 60°, J, VN, No, No, PI, SR @ 132.1-133.3' 0°, B, VN, No, No, PI, SR @ 132.1', 132.7', 132.8', 133.0', 133.4' 134.4'																					
														133				447				CLAYSTONE; (Salina Group - Unit F) limestone band @ 131.9-132.0'																					
														134				446				DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 60°, J, VN, No, No, PI, SR @ 132.1-133.3' 0°, B, VN, No, No, PI, SR @ 132.1', 132.7', 132.8', 133.0', 133.4' 134.4'																					
														135				445				CLAYSTONE; (Salina Group - Unit F) limestone band @ 131.9-132.0'																					



## BORING LOG

SHEET 10 OF 10

5/8/2008 10:14 AM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C12

SHEET 1 OF 13

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6043.5'		GROUND ELEVATION (DATUM) E 4606.5'		581.1 ft (NAVD 88)		TOTAL DEPTH 178.1 (feet)	
SURFACE CONDITIONS Paved parking lot				COORDINATE SYSTEM Plant		DATE START 08/24/07		DATE FINISHED 08/28/07			
SAMPLING				LOGGED BY <i>TB for Grainger/Mass</i>		CHECKED BY <i>TB for Dogbey/Mass</i>		APPROVED BY <i>EM Meyer</i>			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS				REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	
S	1		4.0			2.0	0		581	<u>ASPHALT</u> <u>COBBLES</u> with Gravel - About 60% angular, cubical to flat & elongated, hard cobbles w/max. size 12"; about 20% fine to coarse, angular to elongated, hard gravel; about 15% fine to coarse, angular, hard sand; about 5% fines; (Fill).	
							1		580		
							2		579	Below 4.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	
							3		578		
							4		577	Discrete sample SC-1 collected @ 7.8-8.2'.	
							5		576		
							6		575	Discrete sample SC-2 collected @ 13.9-14.2.	
							7		574		
							8		573	<u>PEAT (PT)</u> - About 100% plant tissue Fat <u>CLAY</u> - About 100% high plasticity, low toughness, no dilatancy, high dry strength fines; gray & yellowish brown, mottled; soft; moist; no reaction w/	
							9		572		
							10		571	Discrete sample SC-2 collected @ 13.9-14.2.	
							11		570		
							12		569	Discrete sample SC-2 collected @ 13.9-14.2.	
							13		568		
							14		567	Discrete sample SC-2 collected @ 13.9-14.2.	
							15		567		

# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 2 OF 13

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6043.5'				GROUND ELEVATION (DATUM) E 4606.5'      581.1 ft (NAVD 88)				TOTAL DEPTH 178.1 (feet)			
SURFACE CONDITIONS Paved parking lot						COORDINATE SYSTEM Plant				DATE START 08/24/07		DATE FINISHED 08/28/07			
SAMPLING						LOGGED BY <i>Grainger/Mass</i>				CHECKED BY <i>Dogbey/Mass</i>				APPROVED BY <i>E.Meyer</i>	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
							15		566		HCI; homogeneous; (Lacustrine Deposit).				
TW	3		15.5			2.0	16		565		Fat CLAY (CH) - About 95% high plasticity, high toughness, no dilatancy, high dry strength fines; about 5% fine to coarse, angular, hard sand; dark yellowish brown & gray, mottled; firm; moist; strong reaction w/HCl; (Lacustrine Deposit).	Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/ NWJ rods & 4½" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 2.6 TSF @ 17.5'. TV = 0.54 TSF @ 17.5'.			
SPT	4	3	4	9	13	1.5	17		564		fissile; laminated; w/trace wood fragments @ 18.5-20.0'				
							18		563						
							19		562						
							20		561						
TW	5					1.0	21		560		Clayey SAND (SC) - About 80% fine sand; about 20% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; brown; medium dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).	TW-5: tube bent.			
							22		559						
							23		558			PP = 3.2 TSF @ 23.0'. TV = 0.32 TSF @ 23.0'.			
SPT	6	11	21	50/5"	50+	1.2	24		557		Sandy Lean CLAY (CL) - About 60% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 40% fine to coarse, subangular to angular, hard sand; dark grayish brown; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).				
							25		556						
							26		555						
SPT	7	50/4"	-	-	50+	0.3	27		554		Poorly graded SAND with Clay (SP-SC) - About 90% fine to coarse, angular, hard sand; about 10% medium plasticity, low toughness, slow dilatancy, medium dry strength fines; light olive brown; very dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till). highly fractured dolomite @ 26.8'	Tricone refusal @ 27.0'. Below 27.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced			
S	8		27.0			3.0	28		553						
							29		552						
							30		551						





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## BORING LOG

BORING NO. RB-C12

SHEET 3 OF 13

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6043.5'		GROUND ELEVATION (DATUM) E 4606.5'		581.1 ft (NAVD 88)		TOTAL DEPTH 178.1 (feet)		
SURFACE CONDITIONS Paved parking lot				COORDINATE SYSTEM Plant		DATE START 08/24/07		DATE FINISHED 08/28/07				
SAMPLING				LOGGED BY <i>Granger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>		APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
			30.5				30		551			w/sampler. Sonic core S-8 stored in box. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 16.5' prior to drilling on 08/26/07. Core box #1 starts @ 30.5'. Core loss @ 30.5-31.7'. Drill chatter @ 32.0', 32.2', 33.5', 34.0'.
HQ	1	4.5	3.3	0.8	73	18	31		550		highly fractured @ 31.7-32.3'	
							32		549			
							33		548		DOLOMITE; argillaceous; grayish brown; very fine grained (crystalline); fresh; strong; hard; w/shale partings; (Bass Islands Group). 20°, J, No, No, PI, SR @ 32.4-32.5', 32.6-32.7' 90°, J, Ca, Pa, PI, SR @ 32.7-33.0' 80°, J, No, No, Ir, R @ 32.9-33.3' highly fractured @ 34.0-34.7', 34.9-35.0'	
							34		547			
							35		546		90°, J, No, No, PI, SR @ 34.7-34.9'	
			35.0				36		545		DOLOMITE; argillaceous; & SHALE; dolomitic; white & light gray, mottled; very fine grained (crystalline); fresh; very strong; hard; (Bass Islands Group). 0°, B, No, No, PI, SR @ 35.2' 0°, B, No, No, St, SR @ 35.5'	
							37		544		DOLOMITE; argillaceous; dark grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; very strong; hard; w/widely spaced stylolites; pits 0.04-0.08" diameter; trace fossils (mollusks); (Bass Islands Group). highly fractured @ 35.8-35.9' shale parting - 0°, B, PI, SR @ 36.4' 0°, B, UK, FI, PI, SR @ 36.7', 37.9', 38.1', 38.6', 38.7', 39.5'	
HQ	2	5.0	5.0	3.2	100	64	38		543		60°, J, No, No, PI, SR @ 36.7-36.9' 0°, B, No, No, PI, SR @ 37.2'	
							39		542			
							40		541		0.3" diameter vugs @ 40.5-40.7' 0°, B, UK, FI, PI, SR @ 40.5'	
			40.0				41		540			
							42		539		DOLOMITE; argillaceous; light gray & light olive gray, banded; very fine grained; fresh; very strong; hard; w/ stylolites & shale partings; (Bass Islands Group). highly fractured zone @ 41.2-41.5' shale parting - 10°, B, PI, SR @ 41.9' 90°, J, Ca, Pa, PI, SR @ 41.9-42.0'	Drill chatter @ 42.0'.
HQ	3	5.0	5.0	3.0	100	60	43		538		0°, B, UK, FI, PI, SR @ 43.2' highly fractured @ 43.5-43.7'	
							44		537		0°, B, anhydrite, FI, PI, SR @ 44.0' 40°, J, anhydrite, FI, PI, SR @ 44.0-44.1' 0°, B, No, No, St, SR @ 44.3' 90°, J, No, No, PI, SR @ 44.6-44.8' (2)	
							45					



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## BORING LOG

BORING NO. RB-C12

SHEET 4 OF 13

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6043.5'		GROUND ELEVATION (DATUM) E 4606.5'		TOTAL DEPTH 581.1 ft (NAVD 88)		178.1 (feet)		
SURFACE CONDITIONS Paved parking lot				COORDINATE SYSTEM Plant		DATE START 08/24/07		DATE FINISHED 08/28/07				
SAMPLING				LOGGED BY <i>Granger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>		APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	4	5.0	5.0	2.9	100	58	45		536		DOLOMITE; argillaceous; light brownish gray; very fine grained; fresh; very strong; very hard; (Bass Islands Group). 30°, J, Ca, Pa, Pl, SR @ 45.3-45.5'	Core box #2 starts @ 45.0'.
							46		535		DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; very strong; hard; oolites 0.02-0.04"; (Bass Islands Group). shale partings - 0°, B, Pl, SR @ 45.6', 45.7' very closely spaced stylolites @ 45.6-45.9'	
							47		534		DOLOMITE; argillaceous; dark grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°, B, No, No, Pl, SR @ 47.5', 47.6', 47.8' 70°, J, T, Pl @ 47.6-47.8' highly fractured @ 47.8-48.0'	
							48		533			
							49		532			
							50		531		DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; very strong; hard; oolites 0.02-0.04"; (Bass Islands Group). shale parting - 0°, B, St, SR @ 48.5' 70°, J, No, No, Pl, SR @ 49.1-49.7', 49.5-50.0'	
							51		530			
							52		529		argillaceous dolomite @ 51.9-52.0' 0°, B, No, No, Pl, SR @ 52.0'	
							53		528		DOLOMITE; light gray, light brownish gray, & dark grayish brown; laminated; micritic to very fine grained; fresh; strong; hard; w/shale partings and stylolites; (Bass Islands Group). 0°, B, No, No, Pl, SR @ 52.7', 53.5'	
							54		527		claystone parting; black; micritic; fresh; strong; hard @ 54.4'	
							55		526		DOLOMITE; argillaceous; light brownish gray, grayish brown, & gray, banded; micritic to very fine grained; fresh to slightly weathered; strong; hard; w/shale partings; (Bass Islands Group). 80°, J, No, No, Pl, SR @ 54.7-54.9' 10°, J, No, No, Pl, SR @ 55.6' 90°, J, No, No, Pl, SR @ 55.8-56.3' 80°, J, No, No, Pl, SR @ 56.1-56.3' 30°, J, Cl, Fi, Pl, SR @ 56.5-56.6' highly fractured @ 57.0-57.1', 58.0-58.2' 90°, J, No, No, Pl, SR @ 57.1-57.5' (2) grades w/stylolites @ 58.1'	No drilling fluid return @ 55.0'. Drill chatter @ 55.5'.
							56		525			
							57		524			
							58		523			
							59		522		shale parting - 0°, B, Pl, SR @ 58.9'	
							60				DOLOMITE; light brownish gray; pitted; very fine grained (crystalline); slightly weathered; strong; hard;	Core box #3 starts @ 59.2'.



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## BORING LOG

BORING NO. RB-C12

SHEET 5 OF 13

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6043.5' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 178.1 (feet)									
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/24/07										DATE FINISHED 08/28/07									
SAMPLING										LOGGED BY <i>Boyer</i> Grainger/Mass										CHECKED BY <i>Boyer</i> Dogbey/Mass										APPROVED BY <i>Em</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																		
HQ	7	5.0	4.7	2.2	94	44	60		521		w/closely spaced stylolites; pits 0.04-0.12" diameter; (Bass Islands Group). 0° B, No, No, PI, SR @ 59.2', 59.4' (2), 59.5', 59.7' 50° J, Ca, Pa, PI, SR @ 59.5-59.6' highly fractured @ 59.8-60.0' shale parting - 0° B, PI, SR @ 60.1' 90° J, No, No, PI, SR @ 60.3-60.6' shale partings @ 60.8-60.9' 90° J, No, No, PI, SR @ 61.5-61.9' 0° B, No, No, PI, SR @ 61.5, 61.6', 61.8', 62.0', 62.2', 62.3' highly fractured @ 62.2-62.3' 40° J, Ca, Pa, PI, SR @ 62.8-63.0' 30° J, No, No, PI, SR @ 63.4-63.5' 100° J, Ca, Fi, PI, SR @ 63.4-63.6' 30° J, Ca, Pa, PI, SR @ 63.7-63.8'																												
HQ	8	5.0	5.0	4.4	100	88	65		516		grades grayish brown @ 65.5'																												
							66		515		0° J, No, No, PI, R @ 66.0'																												
							67		514		60° J, T, Ca, Fi, PI @ 66.6-67.1' 60° J, Cl, Pa, PI, SR @ 66.9-67.3'																												
							68		513		0° B, UK, Fi, PI, SR @ 68.1'																												
							69		512		shale partings & very closely spaced stylolites @ 68.8- 69.5' 90° J, No, No, WA, SR @ 69.5-70.0', 69.6-70.3' 0° B, UK, Fi, PI, SR @ 69.8'																												
							70		511												Drill chatter @ 70.0'. Water level @ 20.6' prior to drilling on 08/27/07.																		
							71		510																														
HQ	9	5.0	5.0	2.1	100	42	72		509		90° J, No, No, WA, SR @ 71.3-73.6' 0° B, UK, Fi, PI, SR @ 71.4', 71.5'																												
							73		508		DOLOMITE; light brownish gray; micritic; slightly weathered; strong; hard; w/widely spaced stylolites; (Bass Islands Group). 0° B, UK, Fi, PI, SR @ 71.9' 90° J, T, PI @ 72.7-72.9'										Core box #4 starts @ 72.4'.																		
							74		507		fat clay band - about 100% high plasticity, medium toughness, no dilatancy fines; firm; moist; hydrocarbon odor; no reaction w/HCl; homogeneous @ 73.8-73.9'																												
							75																																

**BLACK & VEATCH**

## BORING LOG

BORING NO. RB-C12

SHEET 6 OF 13

CLIENT										PROJECT										PROJECT NO.																																																											
Detroit Edison										Fermi 3 COL Application										147483																																																											
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																																																
Monroe, MI					N 6043.5'					E 4606.5'					581.1 ft (NAVD 88)					178.1 (feet)																																																											
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																																																											
Paved parking lot										Plant					08/24/07					08/28/07																																																											
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																																																											
										Granger/Mass					Dogbey/Mass					Meyer																																																											
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS																																												
										CORE SIZE					RUN NUMBER					RUN LENGTH					RUN RECOVERY					RQD																																																	
										CORE SIZE					RUN NUMBER					RUN LENGTH					RUN RECOVERY					RQD																																																	
HQ										10					5.0					5.0					1.6					100					32					75					506					highly fractured @ 73.9-74.7'					DOLOMITE; argillaceous; light brownish gray; micritic; fresh; very strong; hard; (Bass Islands Group). brecciated (healed) @ 75.0'-75.4'																								
HQ										11					5.0					4.9					3.3					98					66					80					501					DOLOMITE; argillaceous; grayish brown; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/stylolites; (Bass Islands Group). pitted @ 77.5-78.3'					highly fractured @ 78.3-78.6'					w/very closely spaced stylolites @ 79.0-79.2'					90° J,Ca,Pa,PI,SR @ 79.3-80.0', 79.5-80.0'					brecciated (healed) w/shale partings @ 79.4-79.5'					highly fractured @ 80.2-80.3', 82.2-82.3', 82.5-82.6'				
HQ										12					5.0					5.0					2.6					100					52					85					496					DOLOMITE; light olive gray & gray, banded; micritic; fresh; very strong; hard; w/thin shale partings; trace stylolites; (Bass Islands Group). shale partings - 0°,B,PI,SR @ 85.0', 85.1', 85.3', 86.2'					10° J,CI,Pa,PI,SR @ 86.4'					brecciated (healed) w/lenses & convoluted bands of shale @ 86.5-86.8'					DOLOMITE; light brownish gray, light gray, & gray, banded; laminated; very fine grained (crystalline); fresh; very strong; hard; w/trace stylolites; (Bass Islands Group). shale parting - 0°,B,PI,SR @ 88.3'					0°,B,UK,FI,PI,SR @ 88.9', 89.1'					80° J,No,No,PI,SR @ 89.3-90.0'				

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C12

SHEET 7 OF 13




CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6043.5' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 178.1 (feet)													
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/24/07										DATE FINISHED 08/28/07													
SAMPLING										LOGGED BY Grainger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
HQ		13		5.0		5.0		2.9		100		58		90				491				<p>highly fractured @ 90.5-91.1'</p> <p>DOLOMITE; argillaceous; dark gray; micritic; fresh; very strong; hard; w/shale partings; trace stylolites; (Bass Islands Group).  80°, J, Ca, Pa, PI, SR @ 90.9-91.3'  shale partings - 0°, B, PI, SR @ 91.5' (2), 91.6', 92.3', 92.5', 93.5'  many wavy shale partings @ 91.6-91.9'  claystone band; black; fresh; strong; hard @ 92.2-92.3'  30°, J, No, No, PI, SR @ 92.5-92.6'</p> <p>80°, J, No, No, PI, SR @ 94.5-94.8'</p>																					
HQ		14		5.0		5.0		2.8		100		56		95				486				<p>DOLOMITE; argillaceous; gray; very fine grained (crystalline); fresh; strong, hard; w/widely spaced stylolites; (Bass Islands Group).  50°, J, No, No, PI, SR @ 95.0-95.3'  90°, J, No, No, PI, SR @ 95.1-95.4', 95.5-95.8'  silt band - about 100% low plasticity, low toughness, rapid dilatancy fines; light gray; soft; moist; no hydrocarbon odor; strong reaction w/HCl; homogeneous @ 95.8-96.0'  60°, J, No, No, PI, SR @ 96.3-96.9'  0°, J, UK, Fi, PI, SR @ 97.0', 97.6', 97.7'  very closely spaced stylolites @ 97.6-97.7'</p> <p>brecciated (healed) @ 98.4-98.5', 99.0-99.1'  40°, J, No, No, PI, S @ 98.4-98.5'</p>																					
HQ		15		5.0		5.0		4.3		100		86		100				481				<p>70°, J, Ca, Cl, Pa, PI, SR @ 99.7-100.3'  shale partings - 0°, B, WA, SR @ 99.9'</p> <p>60°, J, Ca, Pa, PI, SR @ 100.5'  90°, J, No, No, PI, SR @ 100.5-100.7'</p> <p>DOLOMITE; light brownish gray &amp; grayish brown, mottled; pitted; very fine grained (crystalline); fresh; very strong; hard; (Bass Islands Group).  30°, J, W, Cl, Fi, PI, SR @ 100.7-100.8'  very closely spaced stylolites @ 101.4-102.4'  30°, J, UK, Fi, PI, SR @ 102.2-102.3', 102.5-102.6'  0°, J, UK, Fi, PI, SR @ 102.7'</p> <p>0°, J, No, No, PI, SR @ 103.7'  grades brecciated (healed) w/convoluted shale partings @ 103.7'</p>																				Core box #6 starts @ 100.0'.	

# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 8 OF 13

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6043.5'					E 4606.5'					581.1 ft (NAVD 88)		178.1 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Paved parking lot										Plant					08/24/07		08/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grahner/Mass TB for					Dobbey/Mass TB for					Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	16	5.0	4.7	1.2	94	24	105.0	105		476		40°,J,No,No,PI,SR @ 105.2-105.3'									
								106		475		DOLOMITE; argillaceous; dark grayish brown; very fine grained (crystalline); fresh; very strong; very hard; (Bass Islands Group).									
								107		474		DOLOMITE & DOLOMITE; argillaceous; brecciated (healed); dark olive gray & dark grayish brown, mottled; very fine grained (crystalline); fresh to slightly weathered; very strong; hard; (Bass Islands Group). 70°,J,No,No,PI,SR @ 106.6-106.9' 110°,J,No,No,PI,SR @ 106.6-107.0' 90°,J,anhydrite,Pa,WA,SR @ 107.0-108.5'									
								108		473		highly fractured w/clay; about 100% medium plasticity, medium toughness, slow dilatancy fines; gray; soft; moist; strong reaction w/HCl; homogeneous @ 108.7-109.0'									
								109		472		90°,J,Ca,Pa,PI,SR @ 108.9-109.2'									
HQ	17	5.0	3.7	1.8	74	36	110.0	110		471		DOLOMITE; argillaceous; greenish gray; micritic; fresh; very strong; hard; (Bass Islands Group). highly fractured w/clay; about 100% medium plasticity, medium toughness, slow dilatancy fines; gray; soft; moist; strong reaction w/HCl; homogeneous @ 109.2-109.5', 109.7-110.0' 90°,J,Ca,Pa,PI,SR @ 109.6-109.8' grades dark greenish gray @ 110.3' highly fractured @ 110.5-110.6'									
								111		470		0°,B,CI,Pa,PI,SR @ 110.8'									
								112		469		DOLOMITE; argillaceous; & SHALE; dolomitic; light gray, brown, & dark gray, banded; laminated; fissile; micritic to very fine grained; slightly to moderately weathered; strong; moderately hard to hard; (Salina Group - Unit F). highly fractured @ 110.9-111.1' shale partings - 0°,B,PI,SR @ 111.7', 111.8', 112.4', 112.5', 113.0'				Core loss @ 113.9-115.9'					
								113		468		75°,J,T,PI @ 111.9-112.2' highly fractured @ 113.3-114.0'									
								114		467		60°,J,CI,FI,PI,SR @ 113.5-113.7' (3) highly fractured w/clay @ 115.9-116.5'									
HQ	18	5.0	4.1	0.9	82	18	115.0	115		466		70°,J,N,PI @ 116.5-116.7'				Core box #7 starts @ 115.0'					
								116		465		highly fractured @ 117.5-117.9', 118.6-119.1'									
								117		464		0°,B,anhydrite,FI,PI,SR @ 118.1' 80°,J,No,No,PI,SR @ 118.1-118.3'									
								118		463											
								119		462		LIMESTONE; argillaceous; dark gray; pitted/vuggy; very fine to fine grained (crystalline); slightly weathered; very strong; hard; pits round; vugs elongate & 0.4-2.0"; (Salina Group - Unit F).									
								120		461											



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## BORING LOG

BORING NO. RB-C12

SHEET 9 OF 13

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483														
PROJECT LOCATION Monroe, MI					COORDINATES N 6043.5' E 4606.5'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)					TOTAL DEPTH 178.1 (feet)									
SURFACE CONDITIONS Paved parking lot					COORDINATE SYSTEM Plant					DATE START 08/24/07					DATE FINISHED 08/28/07									
SAMPLING										LOGGED BY <i>Granger/Mass</i>					CHECKED BY <i>Dogbey/Mass</i>					APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS								
HQ	19	5.0	4.9	0.9	98	18	120		461		90° J, Ca, Fi, PI, R @ 119.0-121.0' 20° J, Ca, Fi, PI, SR @ 119.6'													
							121		460		DOLOMITE; argillaceous; gray; micritic; slightly weathered; strong; hard; hydrocarbon odor; (Salina Group - Unit F). highly fractured @ 120.3-120.5'													
							122		459		CLAYSTONE; dolomitic; & LIMESTONE; interbedded; greenish gray to gray; micritic to very fine grained; slightly to moderately weathered; moderately strong to strong; moderately hard to hard; thin to thick bedded; (Salina Group - Unit F). highly fractured @ 122.6-123.0'													
							123		458		70° J, CI, Fi, PI, SR @ 122.6-123.0'													
							124		457		0° B, CI, Fi, PI, SR @ 124.0', 125.3'													
							125		456							Core loss @ 124.9-125.0'								
HQ	20	5.0	4.9	0.4	98	8	126		455		DOLOMITE; argillaceous, dark gray; very fine grained; slightly to moderately weathered; moderately strong to strong; moderately hard to hard; w/ limestone partings & bands; (Salina Group - Unit F). 40° J, No, No, PI, SR @ 126.2-126.4'													
							127		454		0° B, CI, Fi, PI, SR @ 127.0', 127.8', 127.9', 128.3'													
							128		453		highly fractured @ 128.0-129.0'													
							129		452		90° J, CI, Fi, PI, SR @ 128.1-128.5', 128.7-128.9'													
							130		451		DOLOMITE; argillaceous; & SHALE; dolomitic; gray; micritic to very fine grained; slightly to moderately weathered; moderately strong to strong; moderately hard; (Salina Group - Unit F). 20° J, No, No, PI, SR @ 129.2-129.3'					Core box #8 starts @ 130.0'								
							131		450															
							132		449															
HQ	21	5.0	2.8	0.9	56	18	133		448		highly fractured @ 132.6-133.1'													
							134		447		lean clay band - about 100% medium plasticity, medium toughness, slow dilatancy fines; gray; soft; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 132.7-132.9'													
							135		446		limestone bands; dark greenish gray; pitted; micritic; slightly weathered; strong; hard @ 132.9-133.2', 133.4-133.6'													
											70° J, Ca, Fi, PI, SR @ 133.1-133.3'													



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RB-C12

SHEET 10 OF 13

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6043.5'										GROUND ELEVATION (DATUM) E 4606.5'										TOTAL DEPTH 581.1 ft (NAVD 88) 178.1 (feet)																																																																																																																																															
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/24/07										DATE FINISHED 08/28/07																																																																																																																																															
SAMPLING										LOGGED BY <i>Granger/Mass</i>										CHECKED BY <i>Dogbey/Mass</i>										APPROVED BY <i>Em Meyer</i>																																																																																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																																										
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<table border="1"> <tr> <td>HQ</td> <td>22</td> <td>5.0</td> <td>3.3</td> <td>0.4</td> <td>66</td> <td>8</td> <td></td> </tr> </table>										HQ	22	5.0	3.3	0.4	66	8		<table border="1"> <tr> <td>135</td> <td></td> <td>446</td> <td></td> <td>dolomite bands; light brownish gray; micritic; fresh; strong; hard; w/fossils (ostracodes) @ 133.2-133.4', 133.6-133.8'</td> <td></td> </tr> <tr> <td>136</td> <td></td> <td>445</td> <td></td> <td>grades gray &amp; greenish gray, banded; fresh; strong; hard @ 133.8'</td> <td></td> </tr> <tr> <td>137</td> <td></td> <td>444</td> <td></td> <td>DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, Ca, Fi, PI, SR @ 134.1-134.5'</td> <td></td> </tr> <tr> <td>138</td> <td></td> <td>443</td> <td></td> <td>grades bluish gray @ 134.6'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>30°, J, No, No, PI, SR @ 134.6-134.8', 134.8-135.0'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>highly fractured @ 134.7-135.0'</td> <td></td> </tr> <tr> <td>139</td> <td></td> <td>442</td> <td></td> <td>CLAYSTONE; dolomitic; greenish gray; moderately to highly weathered; weak to extremely weak; low hardness to friable; properties comparable to high plasticity, low toughness, no dilatancy to rapid dilatancy; moist soil fines; w/moderately wide spaced; argillaceous; bluish gray; micritic; fresh; strong; hard; dolomite beds; (Salina Group - Unit F). highly fractured @ 136.3-136.6', 137.5-137.9'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0°, B, CI, Fi, PI, SR @ 138.4'</td> <td>Core loss @ 140.0-141.0'</td> </tr> <tr> <td>HQ</td> <td>23</td> <td>5.0</td> <td>4.0</td> <td>1.0</td> <td>80</td> <td>20</td> <td></td> </tr> <tr> <td>140</td> <td></td> <td>441</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>141</td> <td></td> <td>440</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>142</td> <td></td> <td>439</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>143</td> <td></td> <td>438</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>90°, J, CI, Pa, PI, SR @ 143.0-143.2'</td> <td></td> </tr> <tr> <td>144</td> <td></td> <td>437</td> <td></td> <td>DOLOMITE; argillaceous; &amp; SHALE; dolomitic; greenish gray &amp; gray; laminated; micritic to very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).</td> <td>Discrete sample 8-A collected @ 144.0-144.8'</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>silty sand band - about 80% fine sand; about 20% low plasticity, low toughness, rapid dilatancy fines; greenish gray; soft; wet; strong reaction w/HCl; no hydrocarbon odor; homogeneous @ 145.1-145.3'</td> <td>Core loss @ 145.0-145.1'</td> </tr> <tr> <td>HQ</td> <td>24</td> <td>5.0</td> <td>4.9</td> <td>0.5</td> <td>98</td> <td>10</td> <td></td> </tr> <tr> <td>145</td> <td></td> <td>436</td> <td></td> <td>CLAYSTONE; dolomitic; greenish gray; pitted; slightly to moderately weathered; moderately strong; moderately hard; w/close to moderately wide spaced; argillaceous; greenish gray; pitted; micritic; fresh; strong; hard; dolomite bands &amp; thin beds; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>146</td> <td></td> <td>435</td> <td></td> <td>silty sand bands - about 80% fine sand; about 20% low plasticity, low toughness, rapid dilatancy fines; greenish gray; soft; wet; strong reaction w/HCl; no hydrocarbon odor; homogeneous @ 145.5-145.6', 147.3-147.4'</td> <td></td> </tr> <tr> <td>147</td> <td></td> <td>434</td> <td></td> <td>40°, J, No, No, PI, SR @ 146.9-147.0'</td> <td></td> </tr> <tr> <td>148</td> <td></td> <td>433</td> <td></td> <td>120°, J, CI, Fi, PI, SR @ 146.9-147.4'</td> <td></td> </tr> <tr> <td>149</td> <td></td> <td>432</td> <td></td> <td></td> <td></td> </tr> <tr> <td>150</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										135		446		dolomite bands; light brownish gray; micritic; fresh; strong; hard; w/fossils (ostracodes) @ 133.2-133.4', 133.6-133.8'		136		445		grades gray & greenish gray, banded; fresh; strong; hard @ 133.8'		137		444		DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, Ca, Fi, PI, SR @ 134.1-134.5'		138		443		grades bluish gray @ 134.6'						30°, J, No, No, PI, SR @ 134.6-134.8', 134.8-135.0'						highly fractured @ 134.7-135.0'		139		442		CLAYSTONE; dolomitic; greenish gray; moderately to highly weathered; weak to extremely weak; low hardness to friable; properties comparable to high plasticity, low toughness, no dilatancy to rapid dilatancy; moist soil fines; w/moderately wide spaced; argillaceous; bluish gray; micritic; fresh; strong; hard; dolomite beds; (Salina Group - Unit F). highly fractured @ 136.3-136.6', 137.5-137.9'						0°, B, CI, Fi, PI, SR @ 138.4'	Core loss @ 140.0-141.0'	HQ	23	5.0	4.0	1.0	80	20		140		441					141		440					142		439					143		438									90°, J, CI, Pa, PI, SR @ 143.0-143.2'		144		437		DOLOMITE; argillaceous; & SHALE; dolomitic; greenish gray & gray; laminated; micritic to very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Discrete sample 8-A collected @ 144.0-144.8'					silty sand band - about 80% fine sand; about 20% low plasticity, low toughness, rapid dilatancy fines; greenish gray; soft; wet; strong reaction w/HCl; no hydrocarbon odor; homogeneous @ 145.1-145.3'	Core loss @ 145.0-145.1'	HQ	24	5.0	4.9	0.5	98	10		145		436		CLAYSTONE; dolomitic; greenish gray; pitted; slightly to moderately weathered; moderately strong; moderately hard; w/close to moderately wide spaced; argillaceous; greenish gray; pitted; micritic; fresh; strong; hard; dolomite bands & thin beds; (Salina Group - Unit F).		146		435		silty sand bands - about 80% fine sand; about 20% low plasticity, low toughness, rapid dilatancy fines; greenish gray; soft; wet; strong reaction w/HCl; no hydrocarbon odor; homogeneous @ 145.5-145.6', 147.3-147.4'		147		434		40°, J, No, No, PI, SR @ 146.9-147.0'		148		433		120°, J, CI, Fi, PI, SR @ 146.9-147.4'		149		432				150					
HQ	22	5.0	3.3	0.4	66	8																																																																																																																																																																							
135		446		dolomite bands; light brownish gray; micritic; fresh; strong; hard; w/fossils (ostracodes) @ 133.2-133.4', 133.6-133.8'																																																																																																																																																																									
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				30°, J, No, No, PI, SR @ 134.6-134.8', 134.8-135.0'																																																																																																																																																																									
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				0°, B, CI, Fi, PI, SR @ 138.4'	Core loss @ 140.0-141.0'																																																																																																																																																																								
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140		441																																																																																																																																																																											
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142		439																																																																																																																																																																											
143		438																																																																																																																																																																											
				90°, J, CI, Pa, PI, SR @ 143.0-143.2'																																																																																																																																																																									
144		437		DOLOMITE; argillaceous; & SHALE; dolomitic; greenish gray & gray; laminated; micritic to very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Discrete sample 8-A collected @ 144.0-144.8'																																																																																																																																																																								
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HQ	24	5.0	4.9	0.5	98	10																																																																																																																																																																							
145		436		CLAYSTONE; dolomitic; greenish gray; pitted; slightly to moderately weathered; moderately strong; moderately hard; w/close to moderately wide spaced; argillaceous; greenish gray; pitted; micritic; fresh; strong; hard; dolomite bands & thin beds; (Salina Group - Unit F).																																																																																																																																																																									
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147		434		40°, J, No, No, PI, SR @ 146.9-147.0'																																																																																																																																																																									
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149		432																																																																																																																																																																											
150																																																																																																																																																																													



**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C12

SHEET 11 OF 13

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6043.5' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 178.1 (feet)													
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/24/07										DATE FINISHED 08/28/07													
SAMPLING										LOGGED BY <i>Granger/Mass</i> TB for										CHECKED BY <i>Dogbey/Mass</i> TB for										APPROVED BY <i>E Meyer</i>													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		ROD RECOVERY		PERCENT RECOVERY		ROD																															
HQ		25		5.0		4.7		1.4		94		28		150.0		431						gray; highly weathered; weak; low hardness @ 147.4-147.6' highly fractured @ 147.7-148.4, 149.4-149.7' 60° J, CI, FI, PI, SR @ 149.0-149.2'																				Core box #9 starts @ 150.0'.	
														151		430						highly weathered; weak to extremely weak; low hardness to friable @ 151.4-151.6' 0° J, CI, FI, PI, SR @ 151.6'																					
														152		429																											
														153		428																										Discrete sample 9-A collected @ 152.4-153.2'.	
														154		427						highly fractured @ 153.9-154.3' 60° J, CI, FI, PI, SR @ 153.9-154.3'																					
														155		426						SHALE; dolomitic; dark gray; laminated; very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F). highly fractured @ 155.7-156.3'																				Core loss throughout @ 155.0-175.0'.	
														156		425																											
														157		424						DOLOMITE; argillaceous; dark gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). claystone bed; dolomitic @ 157.2-157.5' 0° B, CI, PA, PI, SR @ 157.9', 158.0', 158.1', 158.3', 158.7', 158.8' 80° J, CI, PA, PI, SR @ 158.3-158.6' (2)																					
														158		423																											
														159		422																											
														160		421																											
														161		420																											
														162		419						highly fractured @ 162.0-162.5'																					
														163		418						greenish gray & dark greenish gray, banded @ 162.5-163.0'																					
														164		417																											
														165		416																											

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C12

SHEET 12 OF 13

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6043.5' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 178.1 (feet)									
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/24/07										DATE FINISHED 08/28/07									
SAMPLING										LOGGED BY <i>Granger/Mass</i>										CHECKED BY <i>Dogbey/Mass</i>										APPROVED BY <i>Meyer</i>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)																														
HQ	28	5.0	2.2	0.8	44	16	165		416	highly fractured @ 167.8-168.3'										Core loss @ 165.0-167.8'.																			
							166		415																														
							167		414	BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; dark greenish gray; moderately to highly weathered; moderately strong to weak; moderately hard; w/ angular sand- & gravel-sized clasts of dolomite; argillaceous; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F). 60° J, CI, FI, PI, SR @ 169.0-169.3' 0° B, CI, FI, PI, SR @ 169.5' highly fractured @ 169.7-170.0' dolomite fragments; argillaceous; greenish gray; micritic to very fine grained (crystalline); slightly weathered; very strong; hard; highly fractured; angular to subangular, gravel-sized fragments @ 170.7-171.7'										Core loss throughout @ 170.0-175.0'.																			
HQ	29	2.5	1.0	0.0	40	0	170		411																														
							171		410	DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90° J, CI, Pa, PI, SR @ 173.7-173.8' 60° J, CI, Pa, PI, SR @ 173.8-173.9' 40° J, CI, Pa, PI, SR @ 174.2-174.3'										Core box #10 starts @ 175.0'.																			
HQ	30	2.5	1.3	0.0	52	0	172		409																														
							173		408	BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; dark greenish gray; moderately to highly weathered; moderately strong to weak; moderately hard; w/ angular sand- & gravel-sized clasts of dolomite; argillaceous; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F). grades greenish gray; completely weathered; very weak; friable; properties comparable to high plasticity, low toughness, rapid dilatancy soil fines @ 175.0' grades highly weathered; weak; low hardness to friable; properties comparable to high plasticity, low toughness, slow dilatancy soil fines @ 175.5'										Discrete sample 10-A collected @ 176.0-177.0'.																			
HQ	31	2.5	2.5	1.3	100	52	174		407																														
							175		406	BRECCIA - dolomite clasts in a indurated claystone matrix; claystone matrix; greenish gray; slightly to moderately weathered; moderately strong; moderately hard; w/ angular clasts of dolomite; some argillaceous;										Bottom of boring @ 178.1'. Water level @ 20.4' @ completion of drilling. The extra 0.6' may be due to material wash																			
							176		405																														
							177		404																														
							178		403																														
							179		402																														
							180		401																														



**BLACK & VEATCH**

**BORING LOG**

**BORING NO. RB-C12**

**SHEET 13 OF 13**

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6043.5' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 178.1 (feet)																															
SURFACE CONDITIONS Paved parking lot										COORDINATE SYSTEM Plant										DATE START 08/24/07										DATE FINISHED 08/28/07																															
SAMPLING										LOGGED BY <i>Granger/Mass</i>										CHECKED BY <i>Dogbey/Mass</i>										APPROVED BY <i>Meyer</i>																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
														180				401				very dark gray or light brownish gray; micritic; slightly to moderately weathered; moderately strong; moderately hard to hard; (Salina Group - Unit F). dolomite band; gray; micritic; fresh to slightly weathered; strong; hard; w/clay partings angled 30° @ 177.0-177.2'																				out. Backfilled w/ bentonite chips to 41' on 09/06/07. Backfilled w/ bentonite chips to ground surface on 09/13/07.																			
														181				400																																											
														182				399																																											
														183				398																																											
														184				397																																											
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CLIENT										PROJECT										SHEET NO.																																																																																									
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																																																															
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																																																																															
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																																																																															
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																																	
CORE SIZE										RUN NUMBER										RUN LENGTH										RUN RECOVERY										RQD										PERCENT RECOVERY										VALUE										SAMPLE RECOVERY																																							
SPT										1										23										22										30										52										1.0																																																	
SPT										2										2										3										3										6										2																																																	
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SPT										10										3										3										6										2																																																											
SPT										11										3										3										6										2																																																											
SPT										12										3										3										6										2																																																											
SPT										13										3										3										6										2																																																											
SPT										14										3										3										6										2																																																											
SPT										15										3										3										6										2																																																											
SPT										16										3										3										6										2																																																											
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SPT										21										3										3										6										2																																																											
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SPT										26										3										3										6										2																																																											
SPT										27										3										3										6										2																																																											
SPT										28										3										3										6										2																																																											
SPT										29										3										3										6										2																																																											
SPT										30										3										3										6										2																																																											
SPT										31										3										3										6																																																																					



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C1

SHEET 2 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1'										GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)										TOTAL DEPTH 271.2 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07									
SAMPLING										LOGGED BY Grainger/Bonnie <i>TJB</i>										CHECKED BY Dogbey/Bonnie <i>TJB</i>										APPROVED BY Meyer <i>SM</i>									
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
TW	3						1.5							15																									
														16																									
														17																									
														18																									
														19																									
														20																									
SPT	4	8	14	15	29	1.2								21																									
														22																									
														23																									
														24																									
														25																									
SPT	5	9	11	16	27	1.5								26																									
														27																									
														28																									
														29																									
														30																									
HQ	1	3.7	2.7	1.3	73	35																																	

4/29/2008 3:53 PM DTE - Fermi 3 Geotech



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C1

SHEET 3 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6384.1'				GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)				TOTAL DEPTH 271.2 (feet)	
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant				DATE START 06/13/07				DATE FINISHED 06/20/07	
SAMPLING				LOGGED BY Grainger/Bonnie TB				CHECKED BY Dogbey/Bonnie TB				APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	2	5.0	4.9	3.5	98	70		30		550		90°, J, T, No, No, WA, SR @ 30.5-31.7'	w/diamond bit using water as drilling fluid. Core box #1 starts @ 27.5'.
			31.2					31		549		shale partings @ 30.9-32.3'	
								32		548		DOLOMITE; olive brown; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group). 90°, J, T, No, No, WA, SR @ 32.7-33.1'	
								33		547		0°, J, N, No, No, WA, SR @ 33.5'	
								34		546		0°, J, N, No, No, WA, SR @ 34.7'	
								35		545			
								36		544			
			36.2					37		543		60°, J, VN, No, No, PI, SR @ 37.1-37.5'	
								38		542		black shale band @ 37.4'	
								39		541		slightly vuggy @ 37.6-39.2'	
								40		540		black shale band @ 38.4'	
								41		539		calcite vug @ 38.7'	
								42		538		90°, J, T, No, No, WA, SR @ 39.5-41.2'	
			41.2					43		537			Core box #2 starts @ 41.2'.
								44		536		90°, J, T, No, No, WA, SR @ 42.5-43.2'	
								45		535		0°, J, N, No, No, WA, SR @ 44.5'	

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**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 4 OF 19

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483														
PROJECT LOCATION Monroe, MI					COORDINATES N 6384.1'					GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)					TOTAL DEPTH 271.2 (feet)									
SURFACE CONDITIONS Gravel parking lot					COORDINATE SYSTEM Plant					DATE START 06/13/07					DATE FINISHED 06/20/07									
SAMPLING										LOGGED BY <i>Granger/Bonnie TB</i>					CHECKED BY <i>Dogbey/Bonnie TB</i>					APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																	
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																		
HQ	5	5.0	4.6	1.5	92	30		45		535														
			46.2					46		534			90°, J, T, No, No, WA @ 46.4-47.2'											
								47					60°, J, VN, No, No, St/Ir, R @ 47.2-47.5', 47.5-47.9'											
								48		533			breccia @ 48.2-48.4'											
								49		532			90°, J, T, No, No, WA @ 49.3-49.6'											
								50		531														
								51		530														
			51.2					52		529			60°, J, VN, No, No, St/Ir, R @ 51.8-52.1'											
								53		528			30° transitions to 90°, J, VN, No, No, WA, R @ 52.0-52.5'											
HQ	6	5.0	4.7	3.3	94	66		54		527			DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; moderately hard; (Bass Islands Group).											
								55		526			DOLOMITE; crystalline; brown; micritic; fresh; strong; hard; pitted; (Bass Islands Group).											
								56		525			black shale band @ 54.55-54.6'											
			56.2					57		524								Core box #3 starts @ 56.2'						
								58		523			anhydrite filled vug @ 57.8'											
HQ	7	5.0	5.0	4.6	100	92		59		522			0°, J, VN, No, No, PI, R @ 58.0'											
								60		521			20°, J, VN, UK, Pa, PI, SR @ 58.7'											
													90°, J, T, No, No, WA @ 59.3-59.6'											

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**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 5 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6384.1'		GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)		TOTAL DEPTH 271.2 (feet)	
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 06/20/07	
SAMPLING				LOGGED BY <i>Boyle</i> Grainger/Bonnie TB		CHECKED BY <i>Boyle</i> Dogbey/Bonnie TB		APPROVED BY <i>Boyle</i> Meyer	
SAMPLE TYPE	SAMPLE NUMBER	1ST 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY			
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD		
								DEPTH (FEET)	SAMPLE TYPE
								ELEVATION (FEET)	GRAPHIC LOG
								CLASSIFICATION OF MATERIALS	
								REMARKS	

HQ	8	5.0	4.9	3.8	98	76	60	520	0°,J @ 60.1', 61.4'	
			61.2				61	519		
							62	518	0°,J @ 62.4'	
							63	517	DOLOMITE; light yellowish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,J,Ir @ 62.9', 64.4'	
							64	516		
							65	515	0°,J @ 65.4'	
							66	514		
			66.2				67	513	0°,J,N,Ci,Fi,St @ 67.05' 20°,J,VN,Ci,Fi,St,R @ 67.0-67.05'	
HQ	9	5.0	4.9	4.45	98	89	68	512	DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group).	
							69	511	60°,J,VN,No,No,WA,SR @ 69.0-69.3'	
							70	510		
							71	509	DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°,J,N,Ci,Fi,St @ 71.0' 0°,J,N,No,No,Ir,R @ 71.4', 71.8', 71.5', 72.0', 72.5', 72.65', 72.75', 73.2', 73.45', 73.7', 73.85' breccia @ 72.1-72.8'	
			71.2				72	508		
							73	507	grades grayish brown; w/o stylolites @ 73.0'	
HQ	10	5.0	4.9	0.95	98	19	74	506	90°,J,N,No,No,St @ 73.5-74.3'	
							75		0°,J,N,No,No,Ir,R @ 74.6', 74.7'	

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Water level @ 10.3' prior to drilling on 06/16/07.

Core box #4 starts @ 66.24'.



CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6384.1'					E 4177.5'					580.7 ft (NAVD 88)		271.2 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					06/13/07		06/20/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Bonnie TB					Dogbey/Bonnie TB					Meyer EN	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
							75				0°,J,N,No,No,Ir,R @ 75.2'										
							76		505		60°,J,VN,UK,Sp,Ir @ 76.0' fractured @ 76.2-77.7'										
			76.2				77		504		0°,J,N,No,No,Ir,R @ 76.8'										
							78		503												
HQ	11	5.0	4.0	0.9	80	18	79		502		BRECCIA; healed; argillaceous; grayish brown; fresh; strong; hard; (Bass Islands Group). 90°,J,T,No,No,Ir,R @ 78.1-80.5';										
							80		501												
							81		500												
			81.2				82		499		45°,J,T,No,No,Ir,R @ 81.4' 30°,J,T,No,No,Ir,R @ 81.8' 60°,J,T,No,No,Ir,R @ 82.2'					Core box #5 starts @ 81.2'.					
HQ	12	5.0	5.0	4.4	100	88	83		498												
							84		497												
							85		496												
							86		495												
			86.2				87		494												
							88		493												
HQ	13	5.0	5.0	5.0	100	100	89		492		0°,J,T,UK,Sp,Ir @ 88.5'										
							90		491		DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).										

CLIENT							PROJECT							PROJECT NO.	
Detroit Edison							Fermi 3 COL Application							147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6384.1'				E 4177.5'				580.7 ft (NAVD 88)		271.2 (feet)	
SURFACE CONDITIONS							COORDINATE SYSTEM			DATE START		DATE FINISHED			
Gravel parking lot							Plant			06/13/07		06/20/07			
SAMPLING							LOGGED BY			CHECKED BY			APPROVED BY		
							Grainger/Bonnie TB			Dogbey/Bonnie TB			Meyer sm		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
CORING															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
HQ	14	5.0	5.0	1.8	100	36		90				0°,J,VN,UK,Sp,PI,SR @ 90.0'			
								91		490		black shale parting - 0°,B,N,PI,SR @ 90.75'			
			91.2					92		489					
								93		488		0°,J,T,Ci,Sp,Ir,R @ 92.4', 93.7'			
								94		487		90°,J,T,No,No,PI,R @ 92.6-93.5', 95.5-96.0'			
								95		486		0°,J,T,No,No,PI @ 93.3'			
								96		485		<u>SHALE</u> ; black; (Bass Islands Group).			
								97		484		<u>DOLOMITE</u> ; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).			
								98		483		0°,J,T,No,No,PI @ 94.4'			
								99		482		0°,J,T,No,No,PI @ 95.1', 95.7'			
								100		481		slightly fractured @ 95.9-96.1'			
								101		480		0°,J,T,No,No,PI @ 96.4'			
								102		479		convoluted bedding @ 96.4-97.3'			
								103		478		60°,J,T,No,No,Ir @ 97.0'			
								104		477		0°,J,T,No,No,PI @ 98.4', 98.6'			
								105		476		60°,J,T,No,No,Ir @ 99.2'			
												60°,J,T,No,No,Ir @ 99.6'			
												0°,J,T,No,No,St @ 99.8'			
												pitted @ 100.0-100.2'			
												<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).			

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 8 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4177.5'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)		TOTAL DEPTH 271.2 (feet)																			
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07		DATE FINISHED 06/20/07																			
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Granger/Bonnie</i> <sup>TB</sup>										CHECKED BY <i>Dogbey/Bonnie</i> <sup>TB</sup>										APPROVED BY <i>Meyer</i> <sup>FM</sup>											
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET) SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS											
HQ 17 5.0 5.0 2.2 100 44										105 475 106 474 107 473 108 472 109 471 110 470 111 469 112 468 113 467 114 466 115 465 116 464 117 463 118 462 119 461 120																				60°, J, T, No, No, PI, R @ 105.5-105.7', 107.6-107.8' 0°, J, T, No, No, St @ 105.7'  0°, J, T, No, No, PI, R @ 107.1' 90°, J, T, No, No, WA, R @ 107.2-107.75'  0°, J, T, No, No, PI, R @ 108.2', 108.3', 108.7'  0°, J, T, No, No, PI, R @ 109.0', 109.6' 60°, J, T, No, No, PI, R @ 109.7-109.9' DOLOMITE; gray; micritic; fresh; strong; hard; massive; (Bass Islands Group). 0°, J, T, No, No, PI, R @ 110.1' 60°, J, T, No, No, PI, R @ 110.2-110.4', 110.7-110.9' 0°, J, T, No, No, PI, R @ 111.4', 112.1', 112.3' 90°, J, T, No, No, WA, R @ 111.5-112.2'  90°, J, T, No, No, WA, R @ 112.3-113.6'  0°, J, T, No, No, PI, R @ 112.9'  0°, J, T, No, No, PI, R @ 113.6'  0°, J, VN, UK, Sp, PI, R @ 114.6'  0°, J, T, No, No, PI, R @ 115.4' grades banded w/shale partings @ 115.5' 90°, J, T, No, No, WA, R @ 116.2-116.6'  60°, J, T, No, No, PI, R @ 116.8-117.1' 0°, J, T, No, No, PI, R @ 117.0', 117.15', 117.4' DOLOMITE; argillaceous; light yellowish brown; micritic; fresh; hard; (Bass Islands Group). 90°, J, T, No, No, WA, R @ 117.5-117.9' 0°, J, T, No, No, PI, R @ 117.9', 118.2'										Core box #7 starts @ 109.0'.	
HQ 18 5.0 4.9 2.75 98 55																																									
HQ 19 5.0 5.0 3.2 100 64																																									



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C1

SHEET 9 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																										
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4177.5'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										TOTAL DEPTH 271.2 (feet)																																																																																																																																
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07																																																																																																																																
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer FM																																																																																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																																						
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<table border="1"> <tr> <td>HQ</td> <td>20</td> <td>5.0</td> <td>5.0</td> <td>3.0</td> <td>100</td> <td>60</td> </tr> </table>										HQ	20	5.0	5.0	3.0	100	60	<table border="1"> <tr> <td>120</td> <td>460</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>121</td> <td>459</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>122</td> <td>458</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>123</td> <td>457</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>124</td> <td>456</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>125</td> <td>455</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>126</td> <td>454</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>127</td> <td>453</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>128</td> <td>452</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>129</td> <td>451</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>130</td> <td>450</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>131</td> <td>449</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>132</td> <td>448</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>133</td> <td>447</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>134</td> <td>446</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>135</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										120	460						121	459						122	458						123	457						124	456						125	455						126	454						127	453						128	452						129	451						130	450						131	449						132	448						133	447						134	446						135							<p>60° J, VN, No, No, PI, R @ 121.8-122.0'</p> <p>0° J, N, No, No, WA, R @ 122.1', 122.9', 124.6'</p> <p>calcite filled vug @ 122.1'</p> <p>90° J, N, Ca, Pa, PI, R @ 122.5-123.5'</p> <p>DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).</p> <p>90° V, N, Ca, Fi, PI, R @ 126.0-126.1'</p> <p>fractured @ 126.2-128.2'</p> <p>DOLOMITE; argillaceous; dark greenish gray; micritic; fresh; strong; hard; shale partings; (Salina Group - Unit F).</p> <p>90° J, VN, No, No, PI, R @ 128.4-128.6', 129.3-129.5'</p> <p>fractured @ 128.4-128.6'</p> <p>70° J, N, Ca, Pa, PI, R @ 128.8-129.0'</p> <p>shale partings - 0° J, N, WA, R @ 129.1', 129.3'</p> <p>90° J, VN, No, No, PI, R @ 130.6-130.8'</p> <p>90° V, MW, Ca, Fi, SR @ 130.8-130.5'</p> <p>DOLOMITE; shaley; grayish brown; fresh; strong; hard; w/some anhydrite bedding; (Salina Group - Unit F).</p> <p>90° V, MW, Ca, Fi, SR @ 131.2-131.35'</p> <p>0° J, VN, No, No, PI, SR @ 131.5', 131.8'</p>										<p>Core box #8 starts @ 122.0'.</p>									
HQ	20	5.0	5.0	3.0	100	60																																																																																																																																																								
120	460																																																																																																																																																													
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<table border="1"> <tr> <td>HQ</td> <td>22</td> <td>5.0</td> <td>2.2</td> <td>0.0</td> <td>44</td> <td>0</td> </tr> </table>										HQ	22	5.0	2.2	0.0	44	0																																																																																																																																														
HQ	22	5.0	2.2	0.0	44	0																																																																																																																																																								

4/29/2008 3:53 PM DTE - Fermi 3 Geotech

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6384.1' E 4177.5'		580.7 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot		Plant		06/13/07	
SAMPLING		LOGGED BY		APPROVED BY	
SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY		Grainger/Bonnie		Meyer	
CORING		CHECKED BY		DATE FINISHED	
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD PERCENT RECOVERY RQD		Dogbey/Bonnie		06/20/07	
		DEPTH (FEET)		SAMPLE TYPE	
		ELEVATION (FEET)		GRAPHIC LOG	
		CLASSIFICATION OF MATERIALS		REMARKS	
		135			
			445		
		136			
			444		
		137			
			443		
		138			
			442		
		139			
			441		
		140			
			440		
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			431		
		150			



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C1

SHEET 11 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483																	
PROJECT LOCATION Monroe, MI				COORDINATES N 6384.1'				GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)				TOTAL DEPTH 271.2 (feet)													
SURFACE CONDITIONS Gravel parking lot						COORDINATE SYSTEM Plant				DATE START 06/13/07		DATE FINISHED 06/20/07													
SAMPLING						LOGGED BY Grainger/Bonnie TB				CHECKED BY Dogbey/Bonnie TB				APPROVED BY Meyer ES											
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS	
HQ		26		5.0		3.5		0.8		70		16		150				430				Group - Unit F).			
						151.2								151				429				CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).			
														152				428				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).			
														153				427				0°, J, T, No, No, PI, SR @ 152.9'			
														154				426				CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).			
														155				425				90°, J, T, No, No, PI, SR @ 154.5-154.7'			
														156				424				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).			
						156.2								157				423				CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).			
HQ		27		5.0		3.0		0.0		60		0		158				422							
														159				421							
														160				420				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).			
														161				419				90°, J, T, No, No, St, SR @ 160.9'			
						161.2								162				418				CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).			
														163				417				90°, J, T, No, No, St, SR @ 163.4-163.5'			
HQ		28		5.0		3.0		0.4		60		8		164				416				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).			
														165											

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 12 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4177.5'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										TOTAL DEPTH 271.2 (feet)																			
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07																			
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Boyle</i> Grainger/Bonnie <sup>TB</sup>										CHECKED BY <i>Boyle</i> Dogbey/Bonnie <sup>TB</sup>										APPROVED BY <i>Boyle</i> Meyer <sup>EM</sup>																			
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET) SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																			
HQ 29 5.0 3.3 0.0 66 0										165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180										415 414 413 412 411 410 409 408 407 406 405 404 403 402 401										CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).  DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).										Core box #10 starts @ 166.2'.									

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 13 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4177.5'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										TOTAL DEPTH 271.2 (feet)																																																																															
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07																																																																															
SAMPLING										LOGGED BY <i>Oct 10</i> Grainger/Bonnie <sup>TB</sup>										CHECKED BY <i>12/8</i> Dogbey/Bonnie <sup>TB</sup>										APPROVED BY <i>EM</i> Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																							
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																																																																					
																				180																																																																																									
																				181																																																																																									
																				182																																																																																									
HQ										32										5.0										2.3										0.0										46										0																																																	
																				183																																																																																									
																				184																																																																																									
																				185																																																																																									
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																				187																																																																																									
HQ										33										5.0										2.4										0.0										48										0																																																	
																				189																																																																																									
																				190																																																																																									
																				191																																																																																									
																				192																																																																																									
HQ										34										5.0										0.1										0.0										2										0																																																	
																				193																																																																																									
																				194																																																																																									
																				195																																																																																									



**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 14 OF 19

CLIENT Detroit Edison			PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1' E 4177.5'		GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)	
SURFACE CONDITIONS Gravel parking lot			COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING			LOGGED BY <i>Boyer</i> Grainger/Bonnie TB	CHECKED BY <i>Boyer</i> Dogbey/Bonnie TB	APPROVED BY <i>Boyer</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	35	5.0	0.2	0.0	4	0	195		385			
							196		384			
			196.2				197		383			
							198		382			
							199		381			
							200		380			
							201		379			
HQ	36	2.5	1.5	0.0	60	0	202		378		DOLOMITE; shaley; pale yellow; micritic; fresh; strong; hard; massive; (Salina Group - Unit F). 10°, J, T, UK, Pa, PI, SR @ 202.2', 202.4', 202.7', 202.8' grades light gray @ ~202.9'	
							203		377		LIMESTONE; vuggy; dark brown; micritic; fresh; very strong; hard; (Salina Group - Unit F).	
			203.7				204		376			Water pressure on rig spiked
HQ	37	2.5	1.0	0.0	40	0	205		375		30°, J, VN, No, No, PI, R @ 205.8'	Core box #11 starts @ 205.5'.
							206		374			
			206.2				207		373		DOLOMITE; shaley; light yellowish brown; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).	
HQ	38	2.5	1.3	0.0	52	0	208		372		CLAYSTONE; light gray; soft; (Salina Group - Unit F).	
							209		371		CLAYSTONE; gray; (Salina Group - Unit F).	
			208.7				210				LIMESTONE; dark gray; micritic; fresh; moderately strong; moderately hard; (Salina Group - Unit F).	Water level @ 23.9' prior to drilling on 06/20/07.

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 15 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1'										GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)										TOTAL DEPTH 271.2 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07									
SAMPLING										LOGGED BY <i>B. Per</i> Grainger/Bonnie <sup>TB</sup>										CHECKED BY <i>B. Per</i> Dogbey/Bonnie <sup>TB</sup>										APPROVED BY <i>B. Per</i> Meyer <sup>EM</sup>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																										
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																	
HQ	39	2.5	0.7	0.0	28	0		210				CLAYSTONE; gray; fresh; (Salina Group - Unit F).																											
								211																															
								212				LIMESTONE; dark gray; micritic; fresh; moderately strong; hard; vuggy; (Salina Group - Unit F).																											
HQ	40	2.5	2.2	0.8	88	32		213																															
								214				grades dark grayish brown @ 214.0'																											
								215				90°, J, T, No, No, WA, R @ 214.2-214.8'																											
HQ	41	2.5	1.9	0.4	76	16		216																															
								217																															
								218																															
HQ	42	5.0	3.5	0.8	70	16		219				DOLOMITE; shaley; light brownish gray; micritic; fresh; very strong; hard; massive; (Salina Group - Unit F).																											
								220				0°, J, T, No, No, PI, R @ 219.0', 219.3', 219.4'																											
								221				45°, J, T, No, No, PI, S @ 219.6-219.7', 219.8-219.9'																											
								222				black shale @ 220.2-220.5'																											
								223				90°, J, T, No, No, WA, R @ 220.5-220.7'																											
								224				DOLOMITE; gray & black; fresh; strong; hard; thin to medium bedded; (Salina Group - Unit F).																											
								225				LIMESTONE; dark grayish brown; micritic; moderately strong; hard; (Salina Group - Unit F).																											
HQ	43	5.0	2.8	0.7	56	14		226				DOLOMITE; shaley; pale brown; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).																											
								227				60°, J, N, CI, Pa, PI, R @ 223.9'																											
								228				90°, J, VN, No, No, WA, R @ 224.0-224.5'																											
								229				90°, J, VN, UK, Pa, PI, R @ 224.2-224.5'																											

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 16 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4177.5'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)		TOTAL DEPTH 271.2 (feet)																			
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07		DATE FINISHED 06/20/07																			
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND INCHES 3RD INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Boyle</i> Grainger/Bonnie <sup>7B</sup>										CHECKED BY <i>Boyle</i> Dogbey/Bonnie <sup>7B</sup>										APPROVED BY <i>Boyle</i> Meyer <sup>EM</sup>											
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET) SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS											
HQ 44 5.0 2.5 0.7 50 14										225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240										355 354 353 352 351 350 349 348 347 346 345 344 343 342 341										LIMESTONE; brown; micritic; fresh; strong; hard; (Salina Group - Unit F).  DOLOMITE; shale; light brownish gray; micritic; strong; hard; massive; (Salina Group - Unit F). 0°, J, VN, No, No, PI, R @ 229.0' 40°, J, N, UK, Pa, R @ 229.4-229.5'  LIMESTONE; brown; micritic; fresh; strong; hard; (Salina Group - Unit F).  DOLOMITE; shale; light brownish gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).  70°, J, VN, UK, Pa, WA, R @ 234.8'  SHALE; fissile; grayish brown; weathered; very weak; low hardness; w/bands of dolomite & limestone; (Salina Group - Unit F). 90°, J, T, No, No, PI, S @ 235.4-235.6' 0°, J, T, CI, Pa, PI, SR @ 235.6'										Core box #12 starts @ 225.5'.	

4/29/2008 3:53 PM DTE - Fermi 3 Geotech



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C1

SHEET 17 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4177.5'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										TOTAL DEPTH 271.2 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07									
SAMPLING										LOGGED BY Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer EM									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS							
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																	
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																		
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																		
HQ	47	2.5	0.0	0.0	0	0	240		340																														
							241		339																														
HQ	48	2.5	0.1	0.0	4	0	242		338																														
							243		337																														
							244		336																														
HQ	49	2.5	0.3	0.0	12	0	245		335																														
							246		334																														
							247		333																														
HQ	50	2.5	0.7	0.0	28	0	248		332																														
							249		331																														
HQ	51	2.5	1.9	0.4	76	16	250		330																														
							251		329																														
							252		328																														
							253		327																														
HQ	52	5.0	3.5	0.7	70	14	254		326																														
							255																																

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																														
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4177.5'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										TOTAL DEPTH 271.2 (feet)																				
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07																				
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> TB										CHECKED BY <i>Dogbey/Bonnie</i> TB										APPROVED BY <i>Meyer</i> EM																				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																												
							255				50°, J, T, No, No, PI, SR @ 254.9-255.1'																																							
											0°, J, T, No, No, PI, R @ 255.0', 255.5'																																							
							256																								Core box #13 starts @ 256.2'.																			
							256.2																																											
							257																																											
							258																																											
HQ	53	5.0	3.2	1.2	64	24	259				90°, J, T, No, No, WA, R @ 258.5-259.0'																																							
							260				10°, J, T, No, No, PI, SR @ 259.3', 259.8', 260.0'																																							
							261				0°, J, T, No, No, PI, SR @ 260.5', 260.9'																																							
							261.2																																											
							262																																											
							263				90°, J, T, No, No, PI, S @ 263.1'																																							
HQ	54	5.0	5.0	4.4	100	88	264				DOLOMITE; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit E). grades light brownish gray @ 263.9' anhydrite band @ 263.95-264.1'																																							
							265				20°, J, T, No, No, PI, S @ 264.15, 264.6'																																							
											90°, J, VN, No, No, WA, S @ 264.7', 265.3'																																							
							266				anhydrite band @ 265.3' grades gray @ 265.4'																																							
							266.2																																											
							267				black shale band; hard @ 266.9-267.1' grades light brownish gray @ 267.1'																																							
							268				0°, V, VN, anhydrite, Fi, PI @ 267.4', 267.6', 267.7', 268.3'																																							
											90°, J, VN, No, No, WA, SR @ 267.8', 268.0', 269.1', 270.2'																																							
HQ	55	5.0	5.0	4.8	100	96	269				anhydrite band @ 268.5-268.6'																																							
											90°, V, VN, anhydrite, PI, S @ 268.9'																																							
											0°, V, N, anhydrite, Fi, PI @ 269.2'																																							
							270				grades gray @ 269.5'																																							

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C1

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																								
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1'										GROUND ELEVATION (DATUM) E 4177.5'										TOTAL DEPTH 580.7 ft (NAVD 88) 271.2 (feet)																																														
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 06/20/07																																														
SAMPLING										LOGGED BY <i>Granger/Bonnie</i> <sup>7B</sup>										CHECKED BY <i>Dogbey/Bonnie</i> <sup>7B</sup>										APPROVED BY <i>Meyer</i> <sup>EM</sup>																																														
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																						
										271																														grades light brownish gray @ 270.1'																																				
										272																																																																		
										273																																																																		
										274																																																																		
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**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C2

SHEET 1 OF 6

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4312.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 75.5 (feet)																																																			
SURFACE CONDITIONS Level gravel parking										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07																																																			
SAMPLING										LOGGED BY <i>ECA</i> Grainger/Ang/Bonnie TB										CHECKED BY <i>for</i> Dogbey/Bonnie TB										APPROVED BY <i>sm</i> Meyer																																																			
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																				<p>0</p> <p>1 580</p> <p>2 579</p> <p>3 578</p> <p>4 577</p> <p>5 576</p> <p>6 575</p> <p>7 574</p> <p>8 573</p> <p>9 572</p> <p>10 571</p> <p>11 570</p> <p>12 569</p> <p>13 568</p> <p>14 567</p> <p>15 566</p>										<p>Poorly graded <u>GRAVEL</u> with Sand (GP) - About 80% fine to coarse, angular, hard gravel w/max. size 1½"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; dry; strong reaction w/HCl; homogeneous; (Fill).</p> <p>0.5</p> <p>CONCRETE - 0.8' thick</p> <p>1.3</p> <p>Well graded <u>GRAVEL</u> with Silt and Sand (GW-GM) - About 75% fine to coarse, angular, hard gravel w/max. size 3"; about 15% fine to coarse, angular, hard sand; about 10% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).</p> <p>6.5</p> <p>Poorly graded <u>GRAVEL</u> with Silt and Sand (GP-GM) - About 70% fine to coarse, subangular to subrounded, hard gravel w/max. size 3"; about 20% fine to coarse, subangular to subrounded sand; about 10% fines; dark grayish brown; moist; original field sample had about 25% (by volume) cobbles; (Fill).</p> <p>12.5</p> <p>Lean <u>CLAY</u> (CL) - About 90% medium plasticity, medium toughness, no dilatancy fines; about 10% fine to medium sand; dark greenish gray; soft; moist; (Lacustrine Deposit).</p> <p>grading to about 100% fines; olive brown; soft; moist</p>										<p>Boring advanced w/vacuum excavation.</p> <p>Below 5.8' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Discrete sample S1A collected @ 7.0-8.0'.</p> <p>Discrete sample S2A collected @ 12.5-13.0'. Below 13.0' continued w/NWJ rods &amp; 4½" tricone bit using bentonite mud as drilling fluid.</p>																																									
S										1										NR																																																													
S										2										NR																																																													
SPT										3										WOHWOH										1										1										1.1																															

**BLACK & VEATCH**

## BORING LOG

BORING NO. RW-C2

SHEET 2 OF 6

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6384.1' E 4312.0'		580.9 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Level gravel parking		Plant		06/13/07	
SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
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SAMPLING		CHECKED BY		DATE FINISHED	
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Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
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Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
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SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
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SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB		Meyer sm	
SAMPLING		CHECKED BY		DATE FINISHED	
Level gravel parking		Dogbey/Bonnie TB		08/01/07	
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SAMPLING		LOGGED BY		APPROVED BY	
Level gravel parking		Grainger/Ang/Bonnie TB			



CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6384.1'					E 4312.0'					580.9 ft (NAVD 88)		75.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Level gravel parking										Plant					06/13/07		08/01/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Ang/Bonnie <sup>TB</sup>					Dogbey/Bonnie <sup>TB</sup>					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
S	10					5.0	30					DOLOMITE; crystalline; grayish brown & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Split spoon refusal @ 29.7'. Sonic core stored in box labeled SC1.								
							31		550												
							32		549					DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).							
							33		548												
							34		547												
HQ	1	2.6	2.6	2.4	100	92	35		546				Set nominal 6" temporary steel casing to 35.7'. Core box #1 starts @ 36.0'. Hole open at 36.0'. Below 36.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 17.0' prior to drilling on 08/01/07. No drilling fluid return @ 38.0'.								
							36		545					DOLOMITE; dark grayish brown; fresh; strong; hard; (Bass Islands Group). shale partings - 0°,B,VN,PI,SR @ 36.7', 36.9'							
HQ	2	2.0	1.9	1.8	95	90	37		544				DOLOMITE; brecciated, healed; dark gray; fresh; strong; hard; w/clasts of grayish brown dolomite; (Bass Islands Group). 15°,J,VN,No,No,PI,R @ 37.75-37.85' 40°,J,VN,No,No,PI,R @ 38.1-38.3'								
							38		543												
HQ	3	5.0	5.0	4.2	100	84	39		542			DOLOMITE; argillaceous; dark grayish brown/grayish brown; fresh; strong; hard; w/stylolites & banding; (Bass Islands Group). shale parting - 0°,B,N,PI,SR @ 38.7' 90°,J,T,No,No,WA,SR @ 38.8-40.6' shale partings - 0°,B,VN,PI,SR @ 40.15', 40.2'									
							40		541					0°,B,T,No,No,PI,SR @ 41.0' shale parting @ 41.0' vugs @ 41.15-47.25'							
							41		540					shale partings - 0°,B,T,PI,SR @ 42.1', 42.55', 42.75', 42.8'							
							42		539												
							43		538					shale partings - 0°,B,T,PI,SR @ 43.6', 44.1'							
							44		537			shale partings - 0°,B,T,PI,SR @ 44.3', 44.4'									
							45		536												



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C2

SHEET 4 OF 6

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483																																
PROJECT LOCATION Monroe, MI					COORDINATES N 6384.1'					GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)					TOTAL DEPTH 75.5 (feet)																											
SURFACE CONDITIONS Level gravel parking					COORDINATE SYSTEM Plant					DATE START 06/13/07					DATE FINISHED 08/01/07																											
SAMPLING					LOGGED BY Grainger/Ang/Bonnie <sup>TS</sup>					CHECKED BY Dogbey/Bonnie <sup>TS</sup>					APPROVED BY Meyer																											
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					45					0°,B,T,No,No,PI,SR @ 44.9'																																
					46					grades massive; gray shale parting - 0°,B,T,PI,SR @ 45.6'																																
					47					shale partings - 0°,B,VN,PI,SR @ 45.65', 45.8', 47.1'																																
					48					0°,B,T,No,No,PI,SR @ 47.1', 47.2'																																
					49					90°,J,T,No,No,PI,SR @ 47.2-48.2' (parallel)																																
HQ 4 5.0 5.0 1.35 100 27					50					DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).																																
					51					DOLOMITE; argillaceous; dark grayish brown; fresh; strong; hard; banded; (Bass Islands Group).																																
					52					shale partings - 0°,B,VN,PI,SR @ 48.4', 48.5'																																
					53					0°,B,T,No,No,PI,SR @ 49.1', 49.2'																																
					54					75°,J,T,No,No,PI,SR @ 49.2-49.5', 50.2-50.5'																																
					55					90°,J,T,No,No,PI,SR @ 49.7-49.9'																																
					56					fossils @ 49.8'																																
					57					DOLOMITE; gray; micritic; fresh; strong; hard; pitted; (Bass Islands Group).																																
					58					0°,B,No,No,WA,PI,SR @ 50.5', 51.0'																																
					59					90°,J,T,No,No,PI,SR @ 50.6-51.2'																																
					60					fractured @ 51.1-51.3'																																
					61					DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; very hard; (Bass Islands Group).																																
					62					30°,J,T,No,No,PI,SR @ 51.9-52.2'																																
					63					DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group).																																
					64					shale parting (0.1") @ 52.4'																																
					65					0°,B,T,No,No,WA,SR @ 52.9'																																
					66					90°,J,T,No,No,PI,SR @ 53.9-54.1'																																
					67					shale parting - 0°,B,VN,PI,SR @ 53.9'																																
					68					shale; very dark gray @ 54.2-54.25'																																
					69					DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; pitted; (Bass Islands Group).																																
					70					60°,J,T,No,No,PI,SR @ 54.5-54.7'																																
					71					shale partings - 0°,B,T,PI,SR @ 55.1', 55.3', 58.4'																																
					72					90°,J,T,No,No,PI,SR @ 55.6-56.1'																																
					73					0°,B,T,No,No,PI,SR @ 55.7', 56.1', 59.3'																																
					74					shale partings - 0°,B,T,PI,SR @ 56.2', 57.2', 57.5'																																
					75					15°,J,T,No,No,PI,SR @ 57.7-57.8', 57.9-58.0'																																
					76					0°,J,T,No,No,PI,SR @ 58.1-58.3'																																
					77					50°,J,T,No,No,WA,R @ 58.4-59.6'																																
					78					fossils @ 59.4'																																
					79																																					
					80																																					

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C2

SHEET 5 OF 6

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6384.1' E 4312.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 75.5 (feet)																																																																																																																																			
SURFACE CONDITIONS Level gravel parking										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/01/07																																																																																																																																			
SAMPLING										LOGGED BY Grainger/Ang/Bonnie <sup>TB</sup>										CHECKED BY Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Meyer <sup>EM</sup>																																																																																																																																			
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CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6384.1'				E 4312.0'				580.9 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Level gravel parking						Plant				06/13/07		08/01/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Grainger/Ang/Bonnie TB				Dogbey/Bonnie TB				Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET	6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
									75				30°, J, T, No, No, PI, SR @ 73.6-75.7' shale parting - 10°, B, VN, PI, SR @ 73.8' 40°, J, VN, No, No, Ir, R @ 75.0'		
									76		505			Bottom of boring @ 75.5'. Water level @ 17.2' @ completion of drilling. Backfilled w/ cement - bentonite grout to 46' bgs on 08/13/07. Continued w/ bentonite chips to 1.5' bgs then gravel to surface on 08/21/07.	
									77		504				
									78		503				
									79		502				
									80		501				
									81		500				
									82		499				
									83		498				
									84		497				
									85		496				
									86		495				
									87		494				
									88		493				
									89		492				
									90		491				



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C3

SHEET 1 OF 8

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4177.5'		580.4 ft (NAVD 88)		TOTAL DEPTH 105.5 (feet)	
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 07/31/07			
SAMPLING				LOGGED BY Grainger/Ang/Bonnie		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
CORING											
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG				CLASSIFICATION OF MATERIALS				REMARKS
0		580					Poorly graded GRAVEL with Sand (GP) - About 80% fine to coarse, angular, hard gravel w/max. size 1½"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).				Boring advanced w/vacuum excavation.
1		579					Well graded GRAVEL with Sand (GW) - About 80% fine to coarse, angular, hard gravel w/max. size 2"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).				
2		578									
3		577									
4		576									
5		575					Poorly graded GRAVEL with Sand and Cobbles (GP) - About 75% fine to coarse, subangular & subrounded gravel w/max. size 3", fractured w/2 hammer blows; about 20% fine to coarse, subangular sand; about 5% fines; grayish brown; dry; original field sample had about 15% by volume cobbles; (Fill).				Discrete sample S1A collected @ 5.1-5.5'. Below 5.1' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
6		574									
7		573									
8		572									
9		571									
10		570					Lean CLAY (CL) - About 100% medium plasticity, medium toughness, slow dilatancy fines; olive brown; very soft to firm; wet to moist; (Lacustrine Deposit).				PP = 0.0-1.0 TSF @ 10.0-12.0'.
11		569									
12		568									PP = 1.0-2.0 TSF @ 12.0-12.5'.
13		567									Discrete sample S2A collected @ 13.0-13.5'.
14		566									
15											Discrete sample S2B collected @



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C3

SHEET 2 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6291.9' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 105.5 (feet)																															
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 07/31/07																															
SAMPLING										LOGGED BY Grainger/Ang/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		ROD RECOVERY		PERCENT RECOVERY		RQD																																																	
TW		3										0.6		15		565						Gravelly Lean CLAY (CL) - About 60% medium plasticity, medium toughness, no dilatancy fines; about 30% fine to coarse, subangular gravel w/max. size 1", fractured w/2 hammer blows; about 10% fine to coarse, subangular to subrounded sand; light olive brown; soft; moist; (Lacustrine Deposit).																				14.5-15.0'. Below 15.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid.																			
SPT		4		3		5		9		14		1.6		16		564						Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; firm; moist; homogeneous; (Glacial Till).																				SPT performed w/D-50 automatic hammer. PP = 3.0 TSF @ 18.0'.																			
TW		5										1.3		17		563						Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% fine, subrounded, hard gravel w/max. size 5/8"; dark gray; hard; moist; (Glacial Till).																																							
TW		6										0.8		18		562						PP > 4.5 TSF @ 22.0'.																																							
SPT		7		14		17		20		57		1.6		19		561						Sandy Lean CLAY with Gravel (CL) - About 70% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded sand; about 15% fine to coarse, subrounded, hard gravel w/ max. size 1 1/4"; dark gray; hard; moist; (Glacial Till).																				PP > 4.5 TSF @ 26.0'.																			
SPT		8		16		22		30		52		1.4		20		560						Clayey GRAVEL with Sand (GC) - About 65% fine to coarse, subangular and subrounded; hard gravel w/ max. size 2 1/4"; about 20% fine to coarse, subangular to subrounded sand; about 15% fines; grayish brown; very dense; moist																				Hard drilling @ 27.5'.																			
														21		559						DOLOMITE; crystalline; grayish brown; micritic; fresh;																				Auger refusal @ 29.5'.																			
														22		558																																													
														23		557																																													
														24		556																																													
														25		555																																													
														26		554																																													
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														29		551																																													
														30		550																																													

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C3

SHEET 3 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6291.9' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 105.5 (feet)																															
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 07/31/07																															
SAMPLING										LOGGED BY <i>GA</i> Grainger/Ang/Bonnie										CHECKED BY <i>MB</i> Dogbey/Bonnie										APPROVED BY <i>SM</i> Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
S		9										6		30								strong; hard; (Bass Islands Group).																				Top of rock @ 29.5'. Below 29.5' advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core box S1 begins @ 29.5'.																			
														31																																															
														32																																															
														33																																															
														34																																															
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														40																																															
														41								grades w/stylolites @ 40.5'																																							
														42																																															
														43																																															
														44																																															
														45																																															

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C3

SHEET 4 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6291.9' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 105.5 (feet)													
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 07/31/07													
SAMPLING										LOGGED BY Grainger/Ang/Bonnie <sup>TB</sup>										CHECKED BY Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		2		5.0		5.0		1.5		100		30		45				535				90° J, T, No, No, PI, SR @ 43.0-43.1', 42.6-46.7' shale parting - 10° B, VN, WA, SR @ 44.2'																					
														46				534				90° J, T, No, No, PI, SR @ 44.5-44.6'																					
														47				533				90° J, T, No, No, PI, SR @ 44.6-44.9'																					
														48				532				40° J, T, No, No, PI, SR @ 44.6-44.7' fractured @ 44.7-45.0'																					
														49				531				30° J, T, No, No, PI, SR @ 45.4-45.5'																					
														50				530				90° J, T, No, No, PI, SR @ 45.5-45.9', 46.9-47.4', 47.4-47.6'																					
														51				529				70° J, T, No, No, PI, SR @ 45.5-45.8' shale partings - 0° B, VN, PI, SR @ 46.3', 46.6', 46.9', 47.35'																					
														52				528				45° J, T, No, No, PI, SR @ 47.1-47.7' shale partings - 0° B, VN, PI, SR @ 47.9', 48.2', 48.6' shale parting - 10° B, VN, WA, SR @ 48.2'																					
														53				527				shale partings - 0° B, VN, PI, SR @ 49.0', 49.1', 49.5', 49.7', 49.9' fractured @ 49.1-49.5'																					
														54				526				60° J, T, No, No, PI, SR @ 49.2-49.4' 90° J, T, No, No, PI, SR @ 49.7-49.85' fractured @ 49.7-49.9'																					
														55				525				0° J, T, No, No, PI, SR @ 50.45' shale parting - 0° B, VN, PI, SR @ 50.8' shale partings - 20° B, VN @ 50.9', 50.95'																					
														56				524				DOLOMITE; gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). w/stylolites @ 52.35-52.5'																					
														57				523				DOLOMITE; argillaceous; dark grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group).																					
														58				522				DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; pitted; w/stylolites; (Bass Islands Group). pitted fossils @ 55.2-56.0'																					
														59				521				0° J, T, No, No, WA, SR @ 55.6' - fossils in joint weathered shale @ 56.1-56.3'																					
														60								shale partings - 0° B, VN, PI, SR @ 56.5', 56.9', 58.0', 58.3'																					
																						90° J, T, No, No, PI, R @ 56.6-56.95' 80° J, T, No, No, WA, SR @ 57.2-57.6' pitted fossils @ 57.3-57.9'																					
																						anhydrite crystals @ 58.0-58.3' 50° J, VN, No, No, PI, SR @ 58.1-58.3' grades dark grayish brown @ 58.3'																				Core box #2 starts @ 58.4'	
																						shale parting - 0° B, VN, PI, SR @ 59.4' fractured @ 59.6-59.7'																					



**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C3

SHEET 5 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6291.9' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 105.5 (feet)																																																																																																																																																											
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 07/31/07																																																																																																																																																											
SAMPLING										LOGGED BY Grainger/Ang/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																																																																																																											
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Core box #3 starts @ 67.0'	69		511		0°,J,VN,No,No,Ir,SR @ 67.6'		70		510		0°,B,T,No,No,PI,SR @ 68.4'		71		509		gray @ 69.5-69.55'		72		508		DOLOMITE; argillaceous; gray & dark gray, banded; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group).		73		507		shale partings - 0°,B,VN,PI,SR @ 70.5', 71.0', 72.4'		74		506		convoluted bedding @ 71.2-72.2'		75				shale partings - 10°,J,VN,PI,R @ 71.4', 71.6', 71.8', 72.0', 72.2'						DOLOMITE; argillaceous; olive gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).						shale partings - 0°,B,VN,PI,SR @ 72.9', 73.6', 74.1', 74.2'						90°,J,T,No,No,PI,SR @ 74.3-74.5', 74.5-74.7'						shale parting - 0°,B,VN,PI,SR @ 74.8'	
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**BLACK & VEATCH**

# BORING LOG

**BORING NO. RW-C3**

SHEET 6 OF 8

CLIENT						PROJECT				PROJECT NO.		
Detroit Edison						Fermi 3 COL Application				147483		
PROJECT LOCATION				COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH				
Monroe, MI				N 6291.9'		E 4177.5'		580.4 ft (NAVD 88)		105.5 (feet)		
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED		
Gravel parking area						Plant		06/13/07		07/31/07		
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY		
						Gramer/Ang/Bonnie		Dogbey/Bonnie		Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY						
HQ	8	5.0	3.5	1.1	70	22	75		505		0°,B,VN,No,No,PI,SR @ 76.6', 76.7'	
							76		504		0°,B,N,Ci,Fi,PI,SR @ 77.1'	
							77		503		shale partings - 0°,B,VN,PI,Sr @ 77.5', 79.1'	
							78		502		fractured @ 77.7-79.0'	No drilling fluid return @ 78.0'
							79		501		grades w/stylolites @ 78.5'	
			80.1				80		500		0°,J,VN,Ci,Sp,PI,R @ 80.3'	30% drilling fluid return @ 80.1'
							81		499		clay @ 80.95-81.1'	
											shale parting - 0°,B,VN,PI,SR @ 80.95'	
HQ	9	5.0	5.0	3.4	100	68	82		498		0°,B,T,No,No,PI,SR @ 81.8', 82.8', 84.1'	Core box #4 begins @ 81.7'.
							83		497			
							84		496		50°,J,T,No,No,Ir,R @ 83.8-84.0'	
											fractured @ 84.0-84.5'	
							85		495		80°,J,T,No,No,Ir,R @ 84.5-84.8'	
			85.1				86		494		0°,B,VN,No,No,PI,Sp @ 86.3'	
							87		493			
HQ	10	5.0	4.9	4.3	98	86	88		492		shale parting - 0°,B,VN,Ir,SR @ 87.7'	
											10°,J,VN,No,No,PI,SR @ 88.0'	
							89		491		shale parting @ 88.5'	
							90				convoluted bedding @ 89.5-89.7'	

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C3

SHEET 7 OF 8

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4177.5'		580.4 ft (NAVD 88)		TOTAL DEPTH 105.5 (feet)		
SURFACE CONDITIONS Gravel parking area				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 07/31/07				
SAMPLING				LOGGED BY <i>EM</i> Grainger/Ang/Bonnie		CHECKED BY <i>EM</i> Dogbey/Bonnie		APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	11	5.0	4.5	1.9	90	38	90				0°, B, VN, No, No, PI, SR @ 89.8', 90.0'	
							91				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 90.6-90.8'	
							92				70°, J, VN, No, No, PI, SR @ 91.1-91.3'	
							93				fractured @ 91.2-91.7'	
							94				90°, J, T, No, No, PI, SR @ 91.3-91.9'	
							95				shale partings - 70°, J, T, PI, SR @ 92.5-92.6'	
							96				SHALE; very dark gray; micritic; slightly weathered; strong; hard; (Bass Islands Group).	
							97				DOLOMITE; light gray & dark gray, mottled; fresh; strong; hard; (Bass Islands Group). grading brecciated, healed; medium to fine grained @ 93.8'	
							98					
							99				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). anhydrite crystals @ 94.1-94.3'	
							100				90°, J, T, No, No, PI, SR @ 94.5-94.9'	
							101				0°, B, T, No, No, PI, SR @ 97.3'	
							102				fractured @ 97.5-98.0'	
							103				shale parting @ 99.1'	
							104				90°, J, T, No, No, PI, SR @ 99.2-99.9'	
							105				80°, J, T, No, No, PI, SR @ 99.5'	
											0°, B, T, No, No, Ir, R @ 99.6'	
											shale parting @ 100.1'	
											10° J, T, No, No, PI, SR @ 100.4'	
											shale parting - 0°, B, T, PI, SR @ 100.5'	
											90° J, T, No, No, PI, SR @ 100.5-101.2'	
											shale parting - 0°, B, T, PI, SR @ 101.2'	
											shale parting - 10°, B, T, PI, SR @ 102.8'	
											DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/shale partings and banding; (Bass Islands Group).	
											shale partings - 0°, B, T, WA, SR @ 103.2', 103.5', 105.0'	
											convoluted bedding @ 104.0-104.6'	

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C3

SHEET 8 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6291.9' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										TOTAL DEPTH 105.5 (feet)																															
SURFACE CONDITIONS Gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 07/31/07																															
SAMPLING										LOGGED BY <i>EM</i> Grainger/Ang/Bonnie <sup>7B</sup>										CHECKED BY <i>EM</i> Dogbey/Bonnie <sup>7B</sup>										APPROVED BY <i>EM</i> Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
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														120																																															

Bottom of boring @ 105.5'. Water level @ 20.1' at completion of drilling. Boring caved @ 78.1'. Boring backfilled with bentonite chips from 78.1' to 1' bgs then gravel to surface on 08/21/07

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C4

SHEET 1 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4312.0'		580.2 ft (NAVD 88)		TOTAL DEPTH 146.2 (feet)		
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 08/14/07				
SAMPLING				LOGGED BY TB <i>EA</i> Bonnie/Ang		CHECKED BY <i>EA</i> Dogbey/Bonnie		APPROVED BY TB Meyer <i>EA</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							0		580		Poorly graded GRAVEL (GP) - About 90% fine to coarse, angular to subangular, hard gravel w/max. size 2"; about 5% fine to coarse, angular to subangular sand; about 5% fines; dark reddish gray; dry; weak reaction w/HCl; (Fill).	Boring advanced w/vacuum excavation.
							1		579			
							2		578			
							3		577			
							4		576			
							5		575			
							6		574			
							7		573			
							8		572			
							9		571			
							10		570			
							11		569			
							12		568			
							13		567			
							14		566			
							15					

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C4

SHEET 2 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6291.9' E 4312.0'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 146.2 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/14/07									
SAMPLING										LOGGED BY TB Bonnie/Ang										CHECKED BY TB Dogbey/Bonnie										APPROVED BY TB Meyer									
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																											
TW		4												1.2																									
TW		5												1.9																									
TW		6												1.8																									
TW		7												0.7																									
SPT		8		7		12		13		25				1.4																									
SPT		9		17		16		20		36				1.2																									

5/8/2008 6:34 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C4

SHEET 3 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4312.0'		TOTAL DEPTH 146.2 (feet)			
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 08/14/07			
SAMPLING				LOGGED BY TB Bonnie/Ang ECA		CHECKED BY TB Dogbey/Bonnie		APPROVED BY Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS				REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD					
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	
SPT	10	22	14	14	28	1.0	30		550	Till).	
							31		549	Poorly graded GRAVEL with Clay and Sand (GP-GC) - About 75% fine to coarse, subangular, hard gravel w/max. size 1½"; about 15% medium to coarse, subangular to subrounded sand; about 10% fines; grayish brown; medium dense; wet; (Weathered Rock).	
							32		548		
			32.5				33		547	DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; (Bass Islands Group).	
S	11					3.0	34		546	Below 32.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic Core S-11 & S-12 stored in box labeled SC1.	
							35		545		
			35.5				36		544		
							37		543		
S	12					5.0	38		542		
							39		541		
							40		540		
			40.5				41		539	BRECCIA; poorly indurated to indurated dolomite matrix; gray; micritic; fresh; strong; hard; w/dolomite clasts; light gray; micritic; fresh; strong; hard; (Bass Islands Group).	
HQ	1	3.2	1.9	1.3	59	41	42		538	fractured @ 42.3-42.7'	
							43		537		
			43.7				44		536	slightly fractured @ 43.7-44.4' 90°, J, T, No, No, PI, SR @ 43.7-48.7' 0°, B, T, No, No, PI, SR @ 43.9' 10°, J, T, No, No, PI, SR @ 44.2-44.3'	
							45		535		



# BORING LOG

BORING NO. RW-C4

SHEET 4 OF 10

5/8/2008 6:34 PM DTE - Fermi 3 Geotech



CLIENT		PROJECT		PROJECT NO.						
Detroit Edison		Fermi 3 COL Application		147483						
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)						
Monroe, MI		N 6291.9' E 4312.0'		580.2 ft (NAVD 88)						
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START						
Gravel parking lot		Plant		06/13/07						
SAMPLING		LOGGED BY		CHECKED BY						
		Bonnie/Ang		Dogbey/Bonnie						
APPROVED BY										
Meyer										
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES						
2ND 6 INCHES		3RD 6 INCHES		N VALUE						
SAMPLE RECOVERY										
CORING		DEPTH (FEET)		SAMPLE TYPE						
CORE SIZE		RUN NUMBER		RUN LENGTH						
RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY						
RQD										
		ELEVATION (FEET)		GRAPHIC LOG						
				CLASSIFICATION OF MATERIALS						
				REMARKS						
HQ	5	5.0	2.8	0.6	56	12	60	520	70° J,T,No,No,PI,SR @ 59.9-60.1' (2 Joints), 61.9' 0° B,T,No,No,PI,SR @ 59.9', 60.1', 62.0' fractured @ 60.1-60.5' 80° J,T,No,No,PI,SR @ 60.5-60.8'	
							61	519		
							62	518	fractured @ 62.0-62.7' 90° J,T,No,No,PI,SR @ 62.4-62.5' anhydrite bed @ 62.5-63.0'	
							63	517	63.0	DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).
							64	516		
							65	515	65.1	0° B,T,No,No,PI,SR @ 64.85'
HQ	6	5.0	5.0	2.4	100	48	66	514	65.6	DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). shale parting - 0° B,VN,PI,SR @ 65.3'
							67	513	65.6	DOLOMITE; oolitic; light grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 0° B,T,No,No,PI,SR @ 65.6' 90° J,T,No,No,PI,SR @ 65.6-66.1' 0° B,T,No,No,PI,SR @ 66.1' 60° J,T,No,No,PI,SR @ 66.9-67.4', 67.3-67.5'
							68	512	67.5	DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group). 0° B,T,No,No,PI,SR @ 68.0', 68.1', 68.4' mottled, light gray & dark gray @ 68.3-68.5'
							69	511	68.6	DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0° B,T,No,No,PI,SR @ 68.6', 68.7' 90° J,T,No,No,PI,SR @ 69.0-69.4', 71.2-71.6' 0° B,VN,No,No,PI,SR @ 69.0', 69.4', 69.8', 70.2', 70.3' dolomite; breccia, healed and convoluted bedding @ 69.4-70.2' shale partings - 0° B,VN,PI,SR @ 70.55', 70.8', 70.85', 71.6' 90° J,T,No,No,PI,SR 70.8-70.9' 90° J,T,No,No,PI,SR @ 71.18-71.2' shale partings - 0° B,VN,PI,SR @ 72.05', 72.5', 72.9'
HQ	7	5.0	5.0	1.2	100	24	70	510		
							71	509		
							72	508		
							73	507		
							74	506	73.5	50° J,T,No,No,PI,SR @ 73.2-73.3' 90° J,T,No,No,PI,SR @ 73.4-73.7'
							75	506		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 55° J,T,No,No,PI,SR @ 73.8-74.0' fractured @ 73.9-74.5'



BLACK &amp; VEATCH

## BORING LOG

BORING NO. RW-C4

SHEET 6 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6291.9' E 4312.0'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 146.2 (feet)																																																																																																																																																																																																							
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/13/07										DATE FINISHED 08/14/07																																																																																																																																																																																																							
SAMPLING										LOGGED BY Bonnie/Ang <sup>TB</sup> ECA										CHECKED BY Dogbey/Bonnie <sup>TB</sup>										APPROVED BY Meyer <sup>Em</sup>																																																																																																																																																																																																							
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																																																																																																																																
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																																																																																																																															
HQ										8										5.0										4.6										3.0										92										60										75										505										<p>0°, B, T, No, No, Pl, SR @ 74.5', 75.0'</p> <p>DOLOMITE; brecciated, healed; light brownish gray; micritic; fresh; strong; hard; w/clasts of dolomite; w/stylolites &amp; calcite &amp; anhydrite healed joints; vuggy (5%); (Bass Islands Group). filled vug (no reaction w/HCl) @ 75.2'</p> <p>30°, J, T, No, No, Pl, SR @ 75.3'</p> <p>60°, J, T, No, No, Pl, SR @ 76.5', 76.7'</p> <p>0°, J, T, No, No, Pl, SR @ 77.6'</p>										76										504										77										503										78										502																																																																															
HQ										9										5.0										5.0										2.9										100										58										79										501																				<p>0°, J, T, No, No, Ir, SR @ 78.95', 80.7', 82.0'</p> <p>fractured @ 82.0-82.5'</p> <p>30°, J, VN, No, No, WA, SR @ 82.5-83.0'</p> <p>20°, J, VN, No, No, Ir, SR @ 82.7-82.9'</p> <p>45°, J, VN, No, No, Pl, SR @ 83.1-83.25'</p> <p>fractured @ 83.3-83.6'</p> <p>60°, J, T, No, No, Pl, SR @ 93.5-93.7'</p> <p>90°, J, T, No, No, Pl, SR @ 83.7-84.0'</p> <p>0°, J, T, No, No, Ir, SR @ 84.4-84.5'</p> <p>shale parting @ 85.1'</p> <p>70°, J, T, No, No, WA, SR @ 85.7-86.2'</p>										80										500										81										499										82										498										83										497																																																	
HQ										10										5.0										5.0										3.7										100										74										84										496																														<p>DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).</p> <p>0°, B, T, No, No, Pl, SR @ 87.3', 87.7', 88.0', 88.35'</p> <p>70°, J, T, No, No, Pl, SR @ 87.3-87.6'</p> <p>DOLOMITE; light gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).</p> <p>0°, B, T, No, No, Pl, SR @ 89.2', 89.4', 89.5', 89.8', 90.2'</p> <p>90°, J, T, No, No, Pl, SR @ 89.2-89.6', 89.9-90.2'</p>										85										495										86										494										87										493										88										492										89										491										90									

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C4

SHEET 7 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4312.0'		580.2 ft (NAVD 88)		TOTAL DEPTH 146.2 (feet)			
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 08/14/07					
SAMPLING				LOGGED BY <i>TB</i> Bonnie/Ang		CHECKED BY <i>TC</i> Dobbey/Bonnie		APPROVED BY <i>TC</i> Meyer					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	11	5.0	4.4	0.5	88	10		90		490		70°, J, T, No, No, PI, SR @ 90.2-90.8'	
								91		489		0°, B, T, No, No, PI, SR @ 91.0', 91.4', 91.7', 91.8', 92.0', 92.3'	
								92		488		grades light gray @ 91.1'	
								93		487		SHALE; black; (Bass Islands Group).	
								94		486		DOLOMITE; light gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).	
								95		485		grades light brownish gray @ 91.9'	
								96		484		70°, J, T, No, No, PI, SR @ 92.5-92.8', 91.1-91.3'	
								97		483		0°, B, T, No, No, PI, SR @ 92.5', 92.8'	
								98		482		10°, J, T, No, No, PI, SR @ 93.95-94.05, 94.4-94.8', 95.05, 95.1'	
								99		481		40°, J, T, No, No, PI, SR @ 94.5-94.8'	
								100		480		fractured @ 94.5-94.8'	
								101		479		10°, J, T, No, No, PI, SR @ 95.5'	
								102		478		10°, J, T, No, No, PI, SR @ 96.15'	
								103		477		fractured @ 97.3-97.5'	
								104		476		10°, J, T, No, No, PI, SR @ 98.1'	
								105		475		90°, J, T, No, No, PI, SR @ 98.7-98.9'	
												0°, B, T, No, No, PI, SR @ 98.85'	
												shale partings - 0°, B, VN, PI, SR @ 99.4', 100.9'	
												slightly brecciated, healed @ 100.1-100.6'	
												anhydrite filled vug @ 100.7'	
												fractured @ 100.95-101.1'	
												slightly brecciated, healed @ 101.2-101.4'	
												shale partings - 0°, B, VN, PI, SR @ 101.4', 103.0', 103.1', 103.2'	
												45°, J, VN, CI, Sp, PI, SR @ 102.2-102.3'	
												80°, J, VN, No, No, PI, SR @ 102.5-103.0'	
												90°, J, VN, No, No, PI, SR @ 103.0-103.2'	
												20°, J, VN, CI, Sp, PI, SR @ 103.3'	
												DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; (Bass Islands Group).	

Core box #5 starts @ 98.7'.

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C4

SHEET 8 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4312.0'		TOTAL DEPTH 146.2 (feet)				
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 08/14/07				
SAMPLING				LOGGED BY Bonnie/Ang		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	14	5.0	4.9	2.8	98	56	105		475		0°,B,VN,No,No,PI,SR @ 105.0'	
							106		474		0°,B,VN,No,No,PI,SR @ 106.05', 106.4', 106.45'	
							107		473		0°,B,VN,No,No,PI,SR @ 106.55', 106.6', 106.7', 106.8', 107.0', 107.4', 107.6', 107.8', 108.0'	
							108		472		90°,J,T,No,No,PI,SR @ 106.8-106.9', 107.7-108.7'	
							109		471		70°,J,T,No,No,PI,SR @ 107.05-107.5'	
							110		470		light grayish brown @ 107.5-108.0'	
							111		469		65°,J,T,No,No,PI,SR @ 108.0-108.3', 108.4-108.7'	Water level @ 20.7' prior to drilling on 08/14/07.
							112		468		90°,J,T,No,No,PI,SR @ 109.7-109.8', 110.1-110.5', 110.7-110.9' slightly weathered shale partings - 0°,B,VN,PI,SR @ 110.1',110.5', 110.7',110.9'	
							113		467		70°,J,T,No,No,PI,SR @ 110.1-110.5',110.5-110.6', 112.4-112.7'	
							114		466		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). shale partings - 0°,B,VN,PI,SR @ 111.55',111.95', 112.1',112.4', 112.7',112.9'	
							115		465		fractured @ 112.7-112.9'	
							116		464		75°,J,T,No,No,PI,SR @ 113.1-113.7'	
							117		463		0°,B,VN,No,No,PI,SR @ 114.6', 114.9', 115.9'	Core box #6 starts @ 113.7'.
							118		462		80°,J,T,No,No,Ir,SR @ 115.0-115.15'	
							119		461		10°,J,VN,CI,Sp,PI,SR @ 115.15'	
							120				50°,J,VN,No,No,PI,SR @ 115.35-115.5'	
											60°,J,VN,No,No,PI,SR @ 115.5-115.7'	
											10°,J,T,No,No,PI,SR @ 116.05-116.15'	
											70°,J,T,No,No,PI,SR @ 116.3-116.7'	
											DOLOMITE; brecciated, healed; light grayish brown; micritic; fresh; strong; hard; w/clasts of dolomite; (Bass Islands Group).	
											20°,J,VN,CI,Sp,PI,SR @ 116.7', 116.8'	
											10°,J,T,No,No,PI,SR @ 117.4'	
											grades 5% vuggy @ 118.5'	

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C4

SHEET 9 OF 10

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4312.0'		TOTAL DEPTH 146.2 (feet)				
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 08/14/07				
SAMPLING				LOGGED BY <i>TB ECA</i> Bonnie/Ang		CHECKED BY <i>TB</i> Dogbey/Bonnie		APPROVED BY <i>ECA</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	17	5.0	2.4	0.3	48	6	120		460		90°, J, T, No, No, PI, SR @ 120.0-120.7', 121.0-121.9' 0°, B, T, No, No, PI, SR @ 120.2', 120.4', 120.6' 0°, B, VN, No, No, PI, SR @ 120.45', 120.8', 120.9'	
							121		459		70°, J, T, Anhydrite, Sp, PI, SR @ 121.1-121.25' fractured @ 121.3-121.6' 0°, B, VN, No, No, PI, SR @ 121.5' stylolites & anhydrite partings @ 121.6' 0°, B, T, Ca, Pa, PI, SR @ 121.8'	
							122		458			
							123		457		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 122.0-122.2'	
HQ	18	2.5	0.0	0.0	0	0	124		456		90°, J, T, No, No, PI, SR @ 122.0-122.2' anhydrite filled vug @ 122.2' 90°, J, T, UK, Sp, PI, SR @ 122.9-123.1'	
							125		455			
							126		454			
HQ	19	2.5	0.1	0.0	4	0	127		453			
							128		452			
							129		451		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, T, No, No, PI, SR @ 129.7', 129.85'	
HQ	20	2.5	0.5	0.0	20	0	130		450		70°, J, T, No, No, PI, SR @ 129.9-130.0'	
							131		449		DOLOMITE; argillaceous; light grayish brown; micritic; fresh; strong; hard; banded; (Salina Group - Unit F). 0°, B, T, No, No, PI, SR @ 130.2', 130.35', 130.45', 130.55'	
							132		448		grades gray @ 131.5'	
HQ	21	2.5	0.7	0.0	28	0	133		447		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/anhydrite bedding; (Salina Group - Unit F).	
							134		446		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).	
							135					

**BLACK & VEATCH****BORING LOG****BORING NO. RW-C4****SHEET 10 OF 10**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6291.9'		GROUND ELEVATION (DATUM) E 4312.0'		TOTAL DEPTH 146.2 (feet)				
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant		DATE START 06/13/07		DATE FINISHED 08/14/07				
SAMPLING				LOGGED BY TB Bonnie/Ang ECA		CHECKED BY EM Dogbey/Bonnie TB		APPROVED BY EM Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	22	2.5	0.7	0.0	28	0	135		445		90°, J, T, Ca, Sp, PI, SR @ 135.3-136.0'	
							136		444		0°, B, T, No, No, PI, SR @ 135.5', 135.7'	
HQ	23	2.5	0.7	0.0	28	0	137		443		LIMESTONE; dark gray; micritic; fresh; strong; hard; pitted; (Salina Group - Unit F).	
							138		442		0°, B, VN, Cl, Ir, SR @ 137.3'	
							139		441		0°, B, VN, No, No, PI, SR @ 137.65', 137.75'	
HQ	24	2.5	0.0	0.0	0	0	140		440		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).	
							141		439			
HQ	25	2.5	0.0	0.0	0	0	142		438			
							143		437			
							144		436			
HQ	26	2.5	0.8	0.0	32	0	145		435			
							146		434		CLAYSTONE; dark gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	
							147		433			
							148		432			
							149		431			
							150					

Bottom of boring @ 146.2'. Water level not recorded. Backfilled w/ bentonite chips from 123' to 45' bgs on 09/07/07. Continued w/ bentonite chips to 3' bgs then gravel to surface on 09/12/07.



BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C1

SHEET 1 OF 3

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI				COORDINATES N 6671.8'		GROUND ELEVATION (DATUM) E 4382.7'		580.7 ft (NAVD 88)		TOTAL DEPTH 30.9 (feet)	
SURFACE CONDITIONS Graveled street				COORDINATE SYSTEM Plant		DATE START 08/26/07		DATE FINISHED 08/27/07			
SAMPLING				LOGGED BY TB Mass/Bonnie		CHECKED BY TB Dogbey/Bonnie		APPROVED BY EM Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY					
CORING											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG		CLASSIFICATION OF MATERIALS			REMARKS			
0		580			COBBLES - About 100% angular, flat, very hard cobbles w/max. size 8"; brown; dry; weak reaction w/ HCl; homogeneous; (Fill).			Boring advanced w/vacuum excavation.			
1		579									
2		578									
3		577									
4		576									
5		575									
6		574									
7		573									
8	S	572									
9	1	571									
10		570									
11		569									
12		568									
13		567									
14		566									
15											

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6671.8'					E 4382.7'					580.7 ft (NAVD 88)		30.9 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Graveled street										Plant					08/26/07		08/27/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										TB Mass/Bonnie					TB Dogbey/Bonnie					EM Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
TW	3		15.0				1.2	15		565							Ground water sample taken for chemical analysis @ 15.5'. Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/4 1/4" ID; 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer. Driller reported drilling through a cobble ~ 4" thick @ 18.3'.				
								16		564											
								17		563											
SPT	4	50/4"	-	-	50+	.35		18		562		Gravelly Lean CLAY with Sand (CL) - About 65% medium plasticity, medium toughness fines; 25% fine, subangular gravel w/max. size 3/4"; 10% fine to coarse, subangular sand; trace cobbles; brown; moist; strong reaction w/HCl;									
								19		561											
								20		560											
TW	5						1.1	21		559											
								22		558		Lean CLAY with Gravel (CL) - About 85% low plasticity, low toughness, no dilatancy fines; about 15% fine, subangular gravel w/max. size 3/8"; brown; moist; strong reaction w/HCl.									
								23		557											
								24		556											
								25		555											
								26		554		Gravelly Lean CLAY (CL) - About 70% low plasticity, low toughness, no dilatancy fines; about 30% fine to coarse, angular to subangular gravel w/max. size 0.9"; dark gray; moist; strong reaction w/HCl; homogeneous.									
SPT	6	13	15	21	36	NR		27		553											
								28		552											
								29		551											
								30													



**BLACK & VEATCH**

# BORING LOG

**BORING NO. TB-C1**

**SHEET 3 OF 3**

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6671.8'				E 4382.7'				580.7 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Graveled street						Plant				08/26/07		08/27/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Mass/Bonnie				Dogbey/Bonnie				Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS			REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
SPT	7	50/4"	-	-		0.2	30		550		grades max. gravel size 1.5"			Auger refusal @ 30.9'.	
							31		550					Bottom of boring @ 30.9'. Water level not recorded. Boring backfilled w/bentonite chips to 5.0'; backfilled to surface w/gravel on 09/12/07.	
							32		549						
							33		548						
							34		547						
							35		546						
							36		545						
							37		544						
							38		543						
							39		542						
							40		541						
							41		540						
							42		539						
							43		538						
							44		537						
							45		536						

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C2

SHEET 1 OF 3

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																														
PROJECT LOCATION Monroe, MI										COORDINATES N 6520.1' E 4394.4'										GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)										TOTAL DEPTH 30.0 (feet)																																																																																																																																																																																				
SURFACE CONDITIONS Gravel roadway/storage area										COORDINATE SYSTEM Plant										DATE START 08/25/07										DATE FINISHED 08/28/07																																																																																																																																																																																				
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																																																																																																																																				
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																																																																																										
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																																																																																																												
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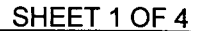
**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C2

SHEET 2 OF 3

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6520.1' E 4394.4'										GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)										TOTAL DEPTH 30.0 (feet)																															
SURFACE CONDITIONS Gravel roadway/storage area										COORDINATE SYSTEM Plant										DATE START 08/25/07										DATE FINISHED 08/28/07																															
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
TW		3										1.6		15		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% sand; brown; hard; moist; strong reaction w/HCl; homogeneous						Water level @ 7.6' prior to drilling on 08/28/07.																																							
SPT		4		3		8		12		20		1.4		16		564																																													
														17		563																																													
														18		562																																													
														19		561																																													
SPT		6		9		15		17		32		NR		20		560						Lean CLAY with Gravel (CL) - About 80% medium plasticity, medium toughness, no dilatancy fines; about 15% fine, subangular to angular gravel w/max. size 1/2"; about 5% sand; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous																																							
														21		559																																													
														22		558						grades w/ trace cobbles @ 21.5'																				Only a piece of cobble recovered in TW5.																			
														23		557																																													
														24		556																																													
SPT		7		12		50/0.3		-		50+		NR		25		555						Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine, angular gravel w/max. size 1/4"; about 10% sand; dark gray; hard; moist; homogeneous																																							
														26		554																																													
														27		553																																													
														28		552																																													
														29		551																																													
SPT		7		12		50/0.3		-		50+		NR		30		550						Auger refusal @ 30.0'.																																							

CLIENT										PROJECT										PROJECT NO.																													
Detroit Edison										Fermi 3 COL Application										147483																													
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																			
Monroe, MI										N 6520.1'										E 4394.4'										579.7 ft (NAVD 88)										30.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																			
Gravel roadway/storage area										Plant										08/25/07										08/28/07																			
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																			
										Bonnie/Grainger										Dogbey/Bonnie										Meyer																			
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																												
CORING										LOGGED BY										CHECKED BY										APPROVED BY																			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																												
							30														Bottom of boring @ 30.0'. Water level not recorded. Boring backfilled w/ bentonite chips to 6.0'; backfilled to surface w/gravel on 08/28/07.																												
							31		549																																								
							32		548																																								
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							45		535																																								



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## BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C3

SHEET 2 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6673.8' E 4474.6'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 51.0 (feet)																																																																													
SURFACE CONDITIONS Gravel parking area.										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 07/27/07																																																																													
SAMPLING										LOGGED BY TB for ECA TB for Bonnie/Arg/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY Meyer fm																																																																													
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																					
S										3																				15										X																				Discrete sample S03A collected @ 14.9-15.2'. PP = 1.5 TSF @ 15.0'.																																															
TW										4										18.5																				16																				Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% sand; brown; firm; moist; no reaction w/HCl; (Glacial Till).										Discrete sample S03B collected @ 17.9-18.1'. PP = 3.0 TSF @ 18.0'. Water level @ 9.5' on 07/26/07. Set nominal 6" temporary steel casing to 18.0'. Hole open to 18.5'. Below 18.5' continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP > 4.5 TSF @ 20.5'. TW-4: tube bent.																																					
TW										5										1.7																				17																				grades w/trace fine to coarse, subrounded to subangular gravel w/max. size 1/2"; light olive brown; hard @ 20.5'																																															
SPT										6										10										13										23										1.4																				grades grayish brown @ 24.0'																																					
SPT										7										12										48										60										0.7																				Clayey GRAVEL (GC) - About 60% fine to coarse, subrounded to subangular, hard gravel w/max. size 1 1/4"; about 30% medium plasticity, medium toughness, no dilatancy fines; about 10% fine to coarse, subrounded to subangular sand; dark grayish brown; very dense; moist; clay seams.																																					
																																																												DOLOMITE; weathered.																																															
S										8										28.0																																																		Below 28.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel																																					
																																																																						DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group).																																					
																																																																						DOLOMITE; light brownish gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). light brownish gray @ 28.9-30.4'																																					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C3

SHEET 3 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483											
PROJECT LOCATION Monroe, MI										COORDINATES N 6673.8' E 4474.6'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 51.0 (feet)									
SURFACE CONDITIONS Gravel parking area.										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 07/27/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET INCHES 2ND INCHES 3RD INCHES N VALUE SAMPLE RECOVERY										LOGGED BY TB for Bonnie/Ang/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY Meyer	
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET) SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS	
										30																				casing advanced w/sampler.	
HQ 1 3.2 3.1 1.0 97 31										550										DOLOMITE; grayish brown; micritic; fresh to slightly weathered; very strong; very hard; w/widely spaced stylolites; (Bass Islands Group).										Sonic core S-8 stored in box labeled S1.	
										549										90° J,Ca,Pa,PI,SR @ 30.4-31.7', 31.4-32.7'										Set nominal 6" temporary steel casing to 30.3'.	
										548										70° J,Ca,Pa,PI,SR @ 31.3-31.4', 32.7-33.4'										Below 30.3' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.	
										548										claystone parting; very dark gray; fresh; strong; hard; @ 31.8'										Core box #1 starts @ 30.3'.	
										547										90° J,Ca,Pa,WA,SR @ 32.2-32.7'										Core loss @ 30.3-30.4'.	
										547										80° J,T,PI @ 33.2-33.8'										No drilling fluid return @ 33.5'.	
HQ 2 5.0 5.0 2.4 100 48										546										DOLOMITE; argillaceous; grayish brown and light brownish gray, banded; micritic; fresh; very strong; very hard; (Bass Islands Group).											
										545										claystone parting; very dark gray; fresh; strong; hard; @ 33.9'											
										544										80° J,CI,Pa,PI,SR @ 35.1-35.6'											
										543										shale parting - 0° B,PI,SR @ 35.4'											
										543										large (1.2") vug, partially filled w/0.3" anhydrite crystals @ 35.5'											
										543										90° J,CI,Pa,PI,SR @ 35.6-35.8'											
										542										90° J,No,No,PI,SR @ 35.9-37.4'											
										541										60° J,Ca,Pa,PI,SR @ 36.5-36.8'											
										540										stylolites begin @ 36.7'											
										539										highly fractured @ 37.1-37.2', 37.4-37.6'											
HQ 3 5.0 5.0 3.5 100 70										542										DOLOMITE; gray & grayish brown, banded; vuggy; micritic; slightly weathered; strong; hard; (Bass Islands Group).											
										541										70° J,Ca,Pa,PI,SR @ 39.2-39.6'											
										540										no vugs @ 39.3-40.1'											
										539										0° B,Ca,FI,PI,SR @ 39.4', 39.5', 40.3'											
										538										130° J,No,No,PI,R @ 39.6-39.8'											
										537										80° J,Ca,Pa,PI,SR @ 39.6-39.7'											
										536										20° J,Ca,Pa,PI,R @ 40.2-40.3'											
										536										20° J,Ca,Pa,PI,SR @ 40.5'											
										536										zones of closely spaced stylolites, 4.8" apart beginning @ 40.5'										Drill chatter @ 41.5'.	
										537										DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; (Bass Islands Group).											
										537										highly fractured @ 41.4-41.5'											
										537										70° J,No,No,PI,SR @ 41.7-42.0'											
										537										0° B,No,No,PI,SR @ 42.6'											
										537										vuggy @ 43.1-43.2'											
										537										60° J,CI,Pa,PI,R @ 43.4-43.5'											
										537										grades light yellowish brown & gray, banded @ 43.5'											
										537										90° J,Ca,Pa,PI,SR @ 43.5-44.4'											
										537										0° B,No,No,PI,SR @ 43.8', 44.0'											
										537										highly fractured @ 44.2-44.4'											
										537																					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C3

SHEET 4 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6673.8'					GROUND ELEVATION (DATUM) E 4474.6'					TOTAL DEPTH 51.0 (feet)						
SURFACE CONDITIONS Gravel parking area.										COORDINATE SYSTEM Plant					DATE START 07/17/07			DATE FINISHED 07/27/07			
SAMPLING										LOGGED BY Bonnie/Ang/Mass					CHECKED BY Dogbey/Mass					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	4	5.0	4.6	2.5	92	50	45		535		10°, J/B, No, No, PI, S @ 44.9'					Core box #2 starts @ 44.9'.					
							46		534		30°, J, No, No, WA, SR @ 45.5-45.6', 45.7-45.8'										
							47		533		40°, J, No, No, PI, S @ 46.0-46.1'										
							48		532		vugs, elongated axis oriented parallel to 40° @ 46.1-46.4'										
							49		531		highly fractured w/many vertical fractures @ 46.5-47.2'										
							50		530		50°, J, No, No, PI, SR @ 46.8-47.0'										
							51		529		DOLOMITE; greenish gray; banded; micritic; fresh; very strong; hard; 0.1" shale partings & widely spaced stylolites; (Bass Islands Group).					Core loss @ 48.1-48.5'.					
							52		528		50°, J, No, No, PI, SR @ 48.0-48.1'										
							53		527		90°, J, T, PI @ 48.6-49.7' (many)										
							54		526												
							55		525												
							56		524												
							57		523												
							58		522												
							59		521												
							60														

Bottom of boring @ 51.0'. Water level @ 14.9' @ completion of drilling. Backfilled w/ cement-bentonite grout to 35' bgs on 08/13/07. Continued w/bentonite chips to 2' bgs then gravel to surface on 08/22/07.



**BLACK & VEATCH**

## BORING LOG

BORING NO. TB-C4

SHEET 1 OF 4

CLIENT						PROJECT						PROJECT NO.				
Detroit Edison						Fermi 3 COL Application						147483				
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH				
Monroe, MI				N 6510.2'				E 4520.7'				580.7 ft (NAVD 88)				
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED				
Gravel parking lot						Plant				07/17/07		07/27/07				
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY		
						TB for Bonnie/Ang/Mass				TB for Dogbey/Mass				Em Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY										
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
								0				Well graded GRAVEL with Cobbles (GW) - About 70% fine to coarse, angular, hard gravel w/max. size 3"; about 15% angular, hard cobbles w/max. size 4"; about 10% fine to coarse, angular to subangular, hard sand; about 5% low plasticity, low toughness, rapid dilatancy, low dry strength fines; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.			
								1		580						
								2		579						
								3		578						
								4		577						
								5		576						
								6		575						
								7		574						
S	1		6.9				NR	8		573			Below 6.9' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S01A collected from S-1.			
								9		572						
								10		571		grades light brownish gray; wet.				
								11		570						
								12		569						
								13		568		grades light gray.				
								14		567						
S	3		12.5				NR	15		566						

**BLACK & VEATCH**

## BORING LOG

BORING NO. TB-C4

SHEET 2 OF 4

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6510.2'					E 4520.7'					580.7 ft (NAVD 88)		54.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		07/27/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Ang/Mass					Dogbey/Mass					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS								
CORING																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
								15				grades very dark gray.									
								16		565											
S	4		16.4			1.6		17		564		Fat CLAY with Sand (CH) - About 75% high plasticity, medium toughness, no dilatancy, very high dry strength fines; about 25% fine sand; very dark gray; soft; wet; organic odor; strong reaction w/HCl; homogeneous; wood fragments; (Lacustrine Deposit).	Discrete sample S02A collected @ 17.2-17.5'. Hole open to 18.0'. Set nominal 6"								
			18.0					18		563											
								19		562											
TW	2					0.7		20		561		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, subrounded to subangular sand; about 10% fine to coarse, subrounded to subangular gravel w/max. size 6/8", fractured w/3 hammer blows; dark gray; hard; moist; (Glacial Till).	temporary steel casing to 18.0'. Water level @ 5.5' prior to drilling on 07/25/07. Below 18.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. PP > 4.5 TSF @ 21.75'.								
								21		560											
								22		559											
SPT	3	8	13	17	30	1.2		23		558											
								24		557											
								25		556											
SPT	4	7	9	11	20	0.5		26		555		Clayey GRAVEL (GC) - About 70% fine to coarse, subrounded to subangular, hard gravel w/max. size 1 1/2"; about 30% medium plasticity, medium toughness, no dilatancy fines; gray; medium dense; moist to wet.									
								27		554											
SPT	5	50/5"			50+	0.3		28		553		Poorly graded GRAVEL with Sand (GP) - About 85% fine to coarse, subangular to angular, hard gravel w/max. size 1"; about 15% medium to coarse; subangular to angular sand; gray; very dense; wet; (Weathered Bedrock).									
								29		552											
S	6		28.5			1.4		30		551		DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). grades light brownish gray & dark gray, mottled @ 28.7'	Below 28.5' continued w/4" ID sonic continuous sampler w/								

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C4

SHEET 3 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6510.2' E 4520.7'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)		TOTAL DEPTH 54.0 (feet)																			
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 07/27/07																			
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY TB for Bonnie/Ang/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY Meyer											
CORING CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD										DEPTH (FEET) SAMPLE TYPE ELEVATION (FEET) GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS											
S 7										29.9										30										DOLOMITE; light brownish gray; micritic; fresh; strong; hard, w/stylolites; (Bass Islands Group).										nominal 6" temporary steel casing advanced w/sampler.	
HQ 1 3.0 2.8 2.6 93 87										31.0										31										DOLOMITE; grayish brown to dark grayish brown; micritic; fresh; very strong; hard; w/very widely spaced, very dark gray, very fine grained, fresh, strong, hard, shale partings; (Bass Islands Group). closely spaced stylolites @ 31.2-31.5' 85°J,VN,WA @ 31.6-32.0' pitted (pits ~ 0.08") @ 32.1-32.7'										Sonic core S-6 and S-7 stored in box labeled S1. Hole open to 31.0'. Set nominal 6" temporary steel casing to 30.5'. Below 31.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 31.0'. Water level @ 14.9' prior to drilling on 07/27/07. No drilling fluid return @ 36.0'.	
HQ 2 5.0 5.0 3.5 100 70										34.0										34										90°J,Ca,Pa,PI,SR @ 33.4-33.8' vuggy @ 34.0-34.9'											
										35.0										35										0°B,Ci,Fi,PI,SR @ 34.9'											
										36.0										36										DOLOMITE; argillaceous; olive gray; micritic; fresh to slightly weathered; strong; very hard; w/very dark gray, very fine grained, fresh, strong, moderately hard, shale partings; (Bass Islands Group). 80°J,N,Ca,Pa,PI @ 35.3-35.9' 80°J,VN,Ca,Pa,PI @ 35.5-36.2' very closely spaced shale partings @ 36.2-36.4' vuggy @ 37.0' vugs (largest = 1.1"), partially filled w/anhydrite crystals (0.3") @ 37.2-37.4' gray @ 37.3-40.3' 20°J,Ci,Fi,PI,SR @ 37.7', 38.8' 10°J,Ci,Fi,PI,SR @ 38.3'											
										39.0										39										30°J,UK,Fi,PI,SR @ 39.4' 20°J,UK,Fi,PI,SR @ 39.5'											
HQ 3 5.0 5.0 0.9 100 18										40.0										40										0°J,UK,Pa,PI,SR @ 40.1, 40.3' grades gray, banded; fresh; very strong; w/closely spaced stylolites; bands angled 30° @ 40.3' 70°J,No,No,PI,R @ 40.4-40.6'											
										41.0										41										DOLOMITE; light olive gray & gray, banded; micritic; fresh to slightly weathered; strong; hard; w/stylolites & closely spaced shale partings; (Bass Islands Group). highly fractured @ 41.0-41.2' 50°J,No,No,St,R @ 41.2-41.5' 0°J,No,No,PI,SR @ 41.7' 90°J,T to N,Ca,Pa,PI,SR @ 41.9-43.5'											
										43.0										43										90°J,No,No,WA,SR @ 43.4-43.8'											
										44.0										44										grades light brownish gray & light gray, banded @ 44.0'											
										45.0										45																					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C4

SHEET 4 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI										COORDINATES N 6510.2' E 4520.7'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)		TOTAL DEPTH 54.0 (feet)							
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 07/27/07							
SAMPLING										LOGGED BY TB ECA TB Bonnie/Ang/Mass										CHECKED BY TB Dogbey/Mass		APPROVED BY Meyer							
CORING										DEPTH (FEET)										SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS	
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD										SAMPLE TYPE										ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS			
HQ 4 5.0 5.0 2.9 100 58										45										535		highly fractured @ 44.9-45.1'		Core box #2 starts @ 44.9'.					
HQ 5 2.0 1.9 1.4 95 70										46										534		very closely spaced stylolites @ 45.8-45.9' 70° J, No, No, PI, SR @ 46.1-46.6'							
HQ 6 3.0 2.5 1.0 83 33										47										533		DOLOMITE; argillaceous; gray & light gray, banded; pitted; micritic to very fine grained (crystalline); fresh; very strong; very hard; pits 0.04-0.08"; w/very closely spaced stylolites; (Bass Islands Group). 75° J, No, No, PI, SR @ 46.5-46.8'							
										48										532		highly fractured w/many approx. vertical fractures @ 46.6-47.2'							
										49										531		80° J, No, No, PI, R @ 47.0-47.2' (2), 47.3-47.5' banding more pronounced @ 48.4-50.9'							
										50										530		90° J, No, No, PI, SR @ 49.3-49.5', 49.8-49.9', 50.1-50.2'							
										51										529		80° J, No, No, PI, R @ 49.3-49.7'							
										52										528		0° J, CI, PI, SR @ 50.4'							
										53										527		DOLOMITE; grayish brown; pitted; micritic to very fine grained (crystalline); slightly weathered; very strong, hard; w/beds of fossils (mollusks) & widely spaced stylolites; pits 0.04-0.24"; (Bass Islands Group). dense fossil bed @ 51.2'							
										54										526		0° B, Ca, Pa, PI, SR @ 52.3'							
										55										525		90° J, Ca, CI, Pa, PI, SR @ 52.5-52.9'							
										56										524		60° J, Ca, Pa, PI, SR @ 52.6-52.9'							
										57										523		40° J, CI, FI, PI, SR @ 53.0'							
										58										522		40° J, CI, FI, PI, SR @ 53.1-53.2'							
										59										521		20° J, CI, FI, PI, SR @ 53.4-53.5'							
										60												70° J, Ca, Pa, PI, SR @ 53.7-53.9'							
																						Core loss @ 53.7-54.0'.							
																						Bottom of boring @ 54.0'. Water level @ 14.7' @ completion of drilling.							
																						Backfilled w/ cement-bentonite grout to 38' bgs on 08/13/07. Continued w/bentonite chips to 2' bgs & backfilled w/ gravel to surface on 08/21/07.							

# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C5

SHEET 1 OF 32

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH				
Monroe, MI			N 6677.7'			E 4592.8'			580.8 ft (NAVD 88)			471.1 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM			DATE START		DATE FINISHED		
Parking area near propane tanks						Plant			06/21/07		07/18/07		
SAMPLING						LOGGED BY			CHECKED BY			APPROVED BY	
						TB Bonnie/Grainger			TB Dogbey/Bonnie			SM Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	1		5.0			5.0	0				Poorly graded GRAVEL - About 85% subangular, hard gravel w/max. size 3"; about 5% cobbles w/max. size 6"; about 5% sand; about 5% fines; dark reddish gray; dry; no reaction w/HCl; (Fill).	Boring advanced w/vacuum excavation.	
							1						
							2						
							3						
							4						
S	1		5.0			5.0	5				Below 5.0' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1. Discrete sample S1 collected @ 7.5-7.8'; stored in box labeled S1.		
							6						
							7						
							8						
							9						
S	2		10.0			5.0	10				Fat CLAY (CH) - About 95% high plasticity, high toughness, no dilatancy fines; about 5% sand; soft; mottled black & dark gray; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	Discrete sample S2A collected @ 10.5-10.8'; stored in box labeled S1.	
							11						
							12						
							13						
							14						
S	2		10.0			5.0	15				Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; light brownish gray; soft; moist; no reaction w/HCl; (Glacial Till).	Discrete sample S2B collected @ 13.3-13.6'; stored in box labeled S1. Sonic core	
							16						
							17						
							18						
							19						

# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C5

SHEET 2 OF 32

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, MI				N 6677.7'				E 4592.8'				580.8 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Parking area near propane tanks						Plant				06/21/07		07/18/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Bonnie/Grainger				Dogbey/Bonnie		Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
S	3		15.0				15		565		grades brown; hard; weak reaction w/HCl	stored in box labeled S1. Sonic core stored in box labeled S2.	
			16				16	564					
			17				17	563					
			18				18	562					
			19				19	561					
S	4		20.0				20		560		Sandy Fat CLAY with Sand (CH) - About 75% high plasticity, high toughness fines; about 25% fine to coarse, subrounded to subangular sand; brown; hard; moist; strong reaction w/HCl	Discrete sample S4A collected @ 22.0-22.3'; stored in box labeled S2. Sonic core stored in box labeled S2.	
			21				21	559					
			22				22	558					
			23				23	557					
			24				24	556					
S	5		26.5				25		555		DOLOMITE; light brownish gray & gray, mottled; micritic; slightly weathered; strong; hard; thin bedded; (Bass Islands Group).	Discrete sample S4B collected @ 25.0-25.3'; stored in box labeled S2.	
			26				26	554					
			27				27	553					
			28				28	552					
			29				29	551					
S			29.0				30		550		DOLOMITE; banded; light brownish gray; micritic; slightly weathered to fresh; very strong; hard; w/very thin argillaceous partings < 0.04"; (Bass Islands Group).	Below 26.5' continued w/ sonic continuous sampler using water as drilling fluid. Sonic core stored in box labeled S3. Discrete sample S5 collected @ 27.0-27.3';	

CLIENT										PROJECT										PROJECT NO.																																																																																														
Detroit Edison										Fermi 3 COL Application										147483																																																																																														
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																																																																																			
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)					471.1 (feet)																																																																																														
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																																																																																														
Parking area near propane tanks										Plant					06/21/07					07/18/07																																																																																														
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																																																																																														
										Bonnie/Grainiger					Dogbey/Bonnie					Meyer																																																																																														
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS																																																																															
										CORE SIZE					RUN NUMBER					RUN LENGTH					RUN RECOVERY					RQD					PERCENT RECOVERY					RECOVERY																																																																										
PQ										1					2.0					1.6					0.0					80					0					30										90°,J,VN,No,No,PI,R @ 29.5-31.9'					stored in box labeled S3. Set nominal 6" temporary steel casing to 28.8'. Below 29.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water Level @ 13.6' on 07/10/07. No drilling fluid return @ 29.0'. Core box #1 starts @ 29.0'. 100% drilling fluid return @ 30.5'.																																																											
																				31.0																				31					550					DOLOMITE; argillaceous; light brownish gray; very fine grained; fresh; strong; hard; w/stylolites; (Bass Islands Group).																																																																
																																								32					549																																																																					
																																													33					548										0°,B,N,UK,Pa,PI @ 32.8'																																																						
PQ										2					5.0					5.0					5.0					100					100					34					547					pitted to vuggy @ 33.9-35.0'					No drilling fluid return @ 36.5'. Core box #2 starts @ 38.5'.																																																											
																																													35					546										0°,B,N,UK,Pa,PI @ 35.0'																																																						
																																																		36										545					80°,J,N,Ca,PI,SR @ 35.0-35.8'																																																	
																																																												37					544					90°,J,T,UK,PI @ 35.6'																																												
																																																																	38					543					10°,B,VN,UK,Sp,PI,SR @ 36.4'																																							
PQ										3					4.2					4.2					4.0					100					95					39					542					10°,B,VN,UK,Sp,PI,SR @ 38.5'					Core barrel blocked @ 40.8'.																																																											
																																																												40					541					10°,B,VN,UK,Sp,PI,SR @ 39.1'																																												
																																																																						41					540																																							
																																																																											42					539																																		
																																																																																43					538																													
PQ										5					5.0					5.0					3.2					100					64					44					537					10°,B,N,UK,Sp,PI,R @ 42.9'																																																																
																																																																																45					536					Two 90° Joints,T,No,No,St,VR closely spaced parallel @ 40.2-43.0'																								
																																																																																										46					535					90°,J,T,No,No,St,VR closely spaced parallel @ 43.2-46.0'														
																																																																																															47					534					10°,B,N,UK,Sp,PI,R @ 43.9'									
																																																																																																				48					533					10°,B,N,UK,Sp,PI,R @ 44.1'				



BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C5

SHEET 4 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)													
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07													
SAMPLING										LOGGED BY TB Bonnie/Grainger										CHECKED BY TB Dogbey/Bonnie										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
PQ		6		5.0		5.0		3.2		100		64		45								90°, J, T, Ca, Pa to Fi, St, VR @ 44.9-46.9'																					
														46								10°, B, N, UK, Sp, PI, R @ 45.5'																					
						46.0								47								DOLOMITE; crystalline; banded, gray & dark gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).																				Drill chatter @ 46.5-47.5'.	
														48								90°, J, T, Ca, Pa to Fi, St, VR @ 47.5-49.6'																					
														49								0°, B, T, UK, Fi, PI @ 47.4', 47.6', 47.9'																				Core box #3 starts @ 47.4'.	
														50								0°, B, T, UK, Fi, PI @ 48.7'																					
														51								1/4" black shale seam @ 50.5'																					
						51.0								52								DOLOMITE; argillaceous; dark gray; slightly weathered; strong; hard; thick bedded; vuggy; w/stylolites & weathered vugs; (Bass Islands Group).																					
														53								0°, B, Ma, Fi, PI, R @ 51.0'																					
														54								70°, J, VN, No, No, PI, R @ 51.6-52.6'																					
														55								0°, B, Ma, Fi, PI, R @ 52.1'																					
														56								0°, B, Ma, Fi, PI, R @ 52.8'																					
														57								closely spaced vertical joints @ 54.2-59.4'																					
														58								0°, B, Ma, Fi, PI, R @ 54.2'																					
														59								0°, B, Ma, Fi, PI, R @ 54.7'																					
														60								0°, B, Ma, Fi, PI, R @ 55.3'																					
																						0°, B, Ma, Fi, PI, R @ 55.6'																					
																						DOLOMITE; crystalline; light brownish gray; micritic; fresh; moderately strong; hard; w/stylolites; (Bass Islands Group).																				Core box #4 starts @ 56.0'.	
																						contorted, highly fractured fractures filled with anhydrite @ 56.0-59.4'																					
																						crystal-filled vugs @ 56.0' & 57.5'																					



CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6677.7'		E 4592.8'	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Parking area near propane tanks		Plant		06/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY		TB Bonnie/Grainger		TB Dogbey/Bonnie	
CORING		CHECKED BY		APPROVED BY	
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD PERCENT RECOVERY RQD		TB Dogbey/Bonnie		TB Meyer	
		DEPTH (FEET)		CLASSIFICATION OF MATERIALS	
		SAMPLE TYPE		REMARKS	
		ELEVATION (FEET)			
		GRAPHIC LOG			
		60			
		61			Water level @ 14.0' prior to drilling on 06/11/07.
		62			
		63			
PQ	9	64			
		65			
		66			
		67			
		68			
PQ	10	69			
		70			
		71			
		72			
		73			
PQ	11	74			
		75			



**BORING NO. TB-C5**

SHEET 6 OF 32

7/16/2008 2:54 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 7 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																								
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)														
SURFACE CONDITIONS Parking area near propane tanks															COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07									
LOGGED BY Bonnie/Grainger															CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	16	5.0	5.0	3.0	100	60	90				shale seams & stylolites; (Bass Islands Group).		
			91.0				91						
							92				1/4" black shale parting @ 92.5'	Core box #8 starts @ 92.0'.	
							93				10°,B,MW,Cl,Sp,Pl,R (weathered) @ 93.1'		
							94				90°,J,T,No,No,Ir,VR @ 93.1-94.0'		
							95				10°,B,MW,Cl,Sp,Pl,R (weathered) @ 94.5'		
							96				1/4" black shale parting @ 94.8'		
			96.0				97				irregular, very dark gray dolomite inclusion @ 97.0'		
							98						
PQ	17	5.0	5.2	4.8	100	98	99				DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; hard; medium bedded; w/argillaceous seams & partings; (Bass Islands Group).		
							100				0°,B,MW,No,Pl,R (weathered) @ 98.0'		
							101				contorted bedding deformation @ 98.8-99.1'		
			101.0				102				0°,B,N,Cl,Pa,WA (weathered) @ 101.0'		
							103				fractured @ 101.6-101.7'		
							104				0°,B,N,Cl,Pa,WA (weathered) @ 101.7'		
							105				80°,J,T,No,No,Pl,R @ 102.0'		
											fractured @ 102.2'-102.4'		
											0°,B,N,Cl,Pa,WA (weathered) @ 102.4'		
											0°,B,N,Cl,Pa,WA (weathered) @ 102.7'		
											fractured @ 102.8-103.5'		
PQ	18	5.0	4.9	2.4	98	48					0°,B,N,Cl,Pa,WA (weathered) @ 103.5'	Core box #9 starts @ 102.4'.	
											90°,J,T,H,Ir,P @ 104.5-106.0'		

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 8 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)													
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07													
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
PQ		19		5.0		5.0		2.7		100		58		105								0°,B,N,Cl,Pa,WA (weathered) @ 105.0',105.2'																					
														106								0°,B,N,Cl,Pa,WA (weathered) @ 105.6'																					
														107								90°,J,T,H,Ir @ 106.0-107.2'																					
														108								0°,B,N,No,No,Pl,R (weathered) @ 106.2'																					
														109								0°,B,N,No,No,Pl,R (weathered) @ 107.7'																					
														110								90°,J,T,H,Ir @ 108.5-109.5'																					
														111								0°,B,N,No,No,Pl,R (weathered) @ 109.0'																					
														112								0°,B,N,No,No,Pl,R (weathered) @ 109.3'																					
														113								60°,J,T,No,No,Pl,SR @ 109.5',109.6'																					
														114								70°,J,T,H,Ir @ 110.5-111.0'																					
														115								0°,B,MW,Ca,Fi,PI @ 111.9'																					
														116								80°,J,Ca,Fi,PI,R @ 112.3'																					
														117								80°,J,W (weathered) @ 112.5'																					
														118								0°,B,W,Cl,Fi (weathered) @ 112.6',112.8'																					
														119								30°,J,N,No,No,PI,R @ 113.4', 113.5'																					
														120								DOLOMITE; crystalline; dark grayish brown; micritic; fresh; very strong; hard; massive; w/pits & argillaceous seams; (Bass Islands Group).																					
																						30°,J,N,No,PI,R @ 113.6'																					
																						90°,J,T,Ca,Pa,PI,R @ 114.2-115.2'																					
																						30°,J,N,No,PI,R @ 114.2'																					
																						60°,J,N,No,No,PI,R @ 115.3-116.0'																					
																						80°,J,N,Ca,Fi,PI @ 116.0-116.9'																					
																						0°,B,W,Cl,Fi @ 116.0'																					
																						45°,J,W,Cl,Fi @ 116.2'																					
																						brecciated, healed @ 116.6-117.9',118.5-119.6'																					
																						0°,B,W,Cl,Fi @ 118.0'																					
																						80°,J,N,Ca,Fi,PI @ 119.5-121.0'																					

Core box #10 starts @ 111.9'.

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 9 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)													
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07													
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD																															
PQ		22		5.0		4.6		0.0		92		0		120								45°,J,W,Cl,Fi @ 120.6'																					
				121.0										121								80°,J,N,No,No,PI,SR @ 121.0-121.7',121.3-121.9'																				Core box #11 starts @ 121.3'	
														122								DOLOMITE; crystalline; gray; micritic; fresh; very strong; very hard; interbedded w/dark gray, argillaceous dolomite, fresh to slightly weathered & shale partings; (Salina Group - Unit F).																					
														123								80°,J,N,No,No,PI,SR @ 121.6-122.2'																					
														124								fractured along bedding @ 122.0-123.1'																					
														125								0.1" thick shale parting @ 122.3'																					
														126								fractured along bedding @ 123.4-123.7'																					
														127								fractured along bedding @ 124.0-124.2'																					
														128								fractured along bedding @ 124.8-125.3'																					
														129								90°,J,N,No,No,Ir,VR @ 122.3-123.7',124.8-125.3'																				Water level @ 11.2' on 07/12/07.	
				126.0										130								DOLOMITE; shaley; interbedded w/DOLOMITE; argillaceous; gray & light brownish gray; very fine grained; slightly weathered; weak to moderately strong; moderately hard; banded w/anhydrite bands & fillings along bedding; (Salina Group - Unit F).																				Core loss @ 126.3', 128.2', 129.8'.	
														131								0°,B,MW,No,No,PI (weathered) @ 126.4',126.9', 127.2',127.7'																					
														132								30°,J,N,No,No,PI,R @ 127.2'																					
														133								90°,J,N,No,No,PI,R @ 128.0-128.8'																					
														134								0°,B,MW,No,No,PI (weathered) @ 128.5'																					
														135								0°,B,MW,No,No,PI (weathered) @ 128.8'																					
																						0°,B,MW,No,No,PI (weathered) @ 130.9'																				Core box #12 starts @ 131.0'.	
																						LIMESTONE; crystalline; dark gray; very fine grained; slightly weathered; medium strong; medium hard; w/ thin clay seams; (Salina Group - Unit F).																					
																						0°,B,MW,No,No,PI (weathered) @ 133.9'																					
																						clay seams @ 134.7',135.1',136.0'																					
																						0°,B,MW,No,No,PI (weathered) @ 134.5'																					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 10 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)		TOTAL DEPTH 471.1 (feet)	
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07		DATE FINISHED 07/18/07	
LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
								135					
								136					
								137					
								138					
PQ	25	5.0	4.5	0.8	90	16							
								139					
								140					
								141					
								142					
PQ	26	5.0	3.0	0.0	60	0							
								143					
								144					
								145					
								146					
								147					
PQ	27	5.0	3.5	0.0	70	0							
								148					
								149					
								150					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 11 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6677.7'					GROUND ELEVATION (DATUM) E 4592.8'					TOTAL DEPTH 580.8 ft (NAVD 88)					471.1 (feet)	
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant					DATE START 06/21/07					DATE FINISHED 07/18/07	
SAMPLING										LOGGED BY TB FCG/for Bonnie/Grainger					CHECKED BY TB Dogbey/Bonnie					APPROVED BY EM Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
							150														
							151		430												
			151.0				152		429		0°,B,N,No,No,PI,SR @ 151.2',151.3'										
							153		428		0°,B,N,No,No,PI,SR @ 151.6'										
							154		427		0°,B,N,No,No,PI,SR @ 152.1',152.4',152.6'										
PQ	28	5.0	4.9	1.7	98	34	155		426		LIMESTONE; vuggy; clayey; (Salina Group - Unit F).										
							156		425		CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/layers or seams of vuggy limestone; (Salina Group - Unit F).										
							157		424		LIMESTONE; vuggy; clayey; (Salina Group - Unit F).										
			156.0				158		423		CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/layers or seams of vuggy limestone; (Salina Group - Unit F).										
PQ	29	5.0	4.8	1.8	96	36	159		422		0°,B,N,No,No,PI,SR @ 154.5'					Core box #14 starts @ 156.0'.					
							160		421		LIMESTONE; vuggy; clayey; (Salina Group - Unit F).										
							161		420		CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/layers or seams of vuggy limestone; (Salina Group - Unit F).										
							162		419		0°,B,N,No,No,PI,SR @ 156.2',156.7',157.1',157.5'										
							163		418		vuggy clayey limestone seams @ 156.2-156.6',157.0-157.3'										
							164		417		CLAYSTONE; calcareous; dark gray; fresh; moderately strong; moderately hard; medium bedded; (Salina Group - Unit F).										
							165		416		vuggy clayey limestone seams @ 158.1-158.2',159.1-159.3'										
											contorted bedding @ 158.5-159.1'					Discrete sample 14A taken from PQ29 @ 160.3-161.0'.					
			161.0								0°,B,N,No,No,PI,SR @ 161.1'										
											0°,B,N,No,No,PI,SR @ 161.5'										
											0°,B,N,No,No,PI,SR @ 162.0'										
PQ	30	5.0	5.0	2.8	100	56					BRECCIA; well indurated; dark gray; matrix of claystone & dolomite; micritic w/clasts of angular to rounded light brownish gray & gray claystone & micritic dolomite; (Salina Group - Unit F).										
																Core box #15 starts @ 164.6'.					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 12 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																															
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07																															
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
PQ		31		5.0		5.0		1.4		100		28		165				415				<p>contorted bedding @ 166.2-168.4'</p> <p>DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia &amp; contorted bedding; (Salina Group - Unit F).</p> <p>30°, J, W, Ca, Fi, Ir @ 168.6'</p> <p>10°, J, N, No, No, Pl, R @ 168.8', 168.9', 169.4'</p> <p>90°, J, N, No, No, Pl, R @ 168.8-169.6', 169.6-170.3'</p> <p>60°, J, N, No, No, Pl, R @ 170.0'</p>																				<p>Core box #16 starts @ 174.1'.</p>																			
														166				414																																											
														167				413																																											
														168				412																																											
														169				411																																											
														170				410																																											
														171				409																																											
														172				408																																											
														173				407																																											
														174				406																																											
PQ		32		5.0		5.0		1.5		100		30		171.0				171.5				<p>BRECCIA; indurated; (Salina Group - Unit F).</p> <p>DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia &amp; contorted bedding; (Salina Group - Unit F).</p> <p>BRECCIA; indurated; (Salina Group - Unit F).</p> <p>DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia &amp; contorted bedding; (Salina Group - Unit F).</p> <p>highly fractured w/closely spaced joints @ 175.5-176.9'</p> <p>BRECCIA; gray; matrix of claystone &amp; dolomite; w/ sand to gravel size clasts (angular); cemented w/ calcite; fresh; moderately strong; low hardness; w/ zones of sand-size fragments; (Salina Group - Unit F).</p>																				<p>Discrete sample 16A taken from 178.7-179.3'.</p>																			
														172				172.5																																											
														173				173.6																																											
														174				174.0																																											
														175				405																																											
														176				404																																											
														177				403																																											
														178				402																																											
														179				401																																											
														180																																															



# BLACK & VEATCH

# BORING LOG

**BORING NO. TB-C5**

**SHEET 13 OF 32**

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)		471.1 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Parking area near propane tanks										Plant					06/21/07		07/18/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Grainger					Dogbey/Bonnie					Meyer	
CORING										DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD									

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 14 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6677.7'					GROUND ELEVATION (DATUM) E 4592.8'					580.8 ft (NAVD 88)					TOTAL DEPTH 471.1 (feet)	
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant					DATE START 06/21/07					DATE FINISHED 07/18/07	
SAMPLING										LOGGED BY Bonnie/Grainger					CHECKED BY Dogbey/Bonnie					APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
							195														
			196.0				196		385		BRECCIA; claystone fragments in claystone matrix; gray; fresh; weak; moderately hard; less brecciation with depth; (Salina Group - Unit F).					Core box #18 starts @ 196.0'.					
							197		384		60° soft seams w/clay @ 196.1', 196.9'										
PQ	37	5.0	5.0	1.5	100	30	198		383												
							199		382		LIMESTONE; argillaceous; very fine grained; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).										
							200		381		30° B, VN, No, No, Fi, SR (weathered) @ 199.2-199.4'										
							201		380		LIMESTONE; crystalline; dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F).										
			201.0				202		379		30° weathered zones @ 200.0-200.2', 200.6-200.7' solutioned, weathered & pitted @ 201.4-203.0'										
							203		378		30° weathered zones @ 202.7-203.0'										
PQ	38	5.0	4.5	1.5	90	30	204		377		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).										
							205		376		SHALE; gray; (Salina Group - Unit F).										
							206		375		BRECCIA; cemented; gray; calcareous claystone matrix w/claystone clasts; slightly weathered; moderately strong; moderately hard; w/soft clay seams; (Salina Group - Unit F).										
			206.0				207		374		60° J, W, No, No, Ir, VR @ 204.5', 206.0'					Core box #19 starts @ 206.0'.					
							208		373												
PQ	39	5.0	3.5	0.5	70	10	209		372		LIMESTONE; crystalline; dark gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).										
							210		371		0° B, solutioned & weathered @ 208.9'										

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# BORING LOG

**BORING NO. TB-C5**

SHEET 15 OF 32

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)						
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Parking area near propane tanks										Plant					06/21/07		07/18/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Grainger					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
							210				0°,B,solutioned & weathered @ 209.3',209.5',209.6', 209.7', 210.0'										
							211				BRECCIA; cemented; gray; crystalline limestone matrix; calcareous claystone & limestone clasts; w/ soft seams; (Salina Group - Unit F).										
PQ	40	5.0	4.5	2.5	90	50	212														
							213				DOLOMITE; crystalline; grayish brown; micritic; slightly weathered; moderately strong; moderately hard; medium bedded; w/layers of crystalline vuggy limestone & fossils; (Salina Group - Unit F).										
							214				0°,B,solutioned & weathered @ 213.0',213.2',213.4' 90°,J,T,Ca,Fi,Ir @ 213.7-216.3'										
							215				60°,J,T,Ca,Fi,Pl @ 214.9',215.0' 0°,B,solutioned & weathered @ 215.3'										
							216					Core box #20 starts @ 216.0'									
							217				limestone layer @ 216.6-217.3',217.5-217.8' 10°,B,N,solutioned @ 216.8' 10°,B,N,solutioned @ 217.3',217.4'										
PQ	41	5.0	4.8	1.4	96	28	218				10°,B,N,solutioned @ 217.8' limestone layer @ 218.0-218.3' 10°,B,N,solutioned @ 218.4',218.9' 20°,J,N,Ca,Fi,Pl,R @ 218.4',218.5' 90°,J,N,Ca,Fi,Pl,R @ 218.5-218.9'										
							219														
							220				LIMESTONE; dark gray; slightly weathered; moderately strong; hard; vuggy; (Salina Group - Unit F). 10°,B,N,solutioned @ 220.4'										
							221														
							222				solutioned clay-filled zones @ 221.9-222.2'										
							223				solutioned clay-filled zones @ 222.7-222.9'										
PQ	42	5.0	4.5	0.5	90	10	224														
							225				solutioned clay-filled zones @ 224.2-224.4' solutioned clay-filled zones @ 224.7-225.5'										



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C5

SHEET 16 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7'										GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																																																																															
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07																																																																															
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																								
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																						
																				225																																																																																									
																				226																																																																																									
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																				228																																																																																									
PQ										43										5.0										3.0										0.0										60										0																																																	
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PQ										44										5.0										3.8										0.9										76										18																																																	
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CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6677.7'		580.8 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Parking area near propane tanks		Plant		06/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY		Bonnie/Grainger		Meyer	
CORING		CHECKED BY		DATE FINISHED	
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD PERCENT RECOVERY RQD		Dogbey/Bonnie		07/18/07	
		DEPTH (FEET)		CLASSIFICATION OF MATERIALS	
		SAMPLE TYPE		REMARKS	
		ELEVATION (FEET)			
		GRAPHIC LOG			
				50° ,J,N,No,No,Ir,R @ 240.5'	
				0° ,B,No,No,PI (weathered) @ 241.4'	
				BRECCIA; well indurated; gray; calcareous claystone matrix w/claystone clasts; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	
				0° ,B,No,No,PI (weathered) @ 241.6',242.0'	
				LIMESTONE; dark gray; vuggy; slightly weathered; strong; hard; (Salina Group - Unit F).	
				solutioned @ 244.7-245.0'	
				20° ,J,solutioned @ 245.5'	
				DOLOMITE; light brownish gray; fresh; very strong; very hard; (Salina Group - Unit E).	
				DOLOMITE & LIMESTONE; interbedded; gray; slightly weathered; strong; hard; (Salina Group - Unit E).	
				0° ,B,W,No,No,PI (weathered) @ 246.1',246.5',246.6'	
				DOLOMITE; crystalline; very pale brown; slightly weathered; strong; hard; w/fossils & widely spaced stylolites; (Salina Group - Unit E).	
				80° ,J,N,Ca,Fi,PI,R @ 247.4-247.9'	
				0° ,B,N,No,No,PI (weathered) @ 247.7',247.9',248.2', 248.7',248.9'	
				fractured along bedding @ 249.1-249.2'	
				0° ,B,N,No,No,PI (weathered) @ 249.9',250.2',250.3'	
				0° ,B,N,No,No,PI (weathered) @ 250.7'	
				0° ,B,W,No,No,PI @ 251.1',251.2',251.3',251.4'	
				10° ,J,N,Ca,Fi,PI @ 252.1',252.2',252.3',252.4'	
				0° ,B,W,No,No,PI @ 253.0',253.3'	
				60° ,J,N,No,PI,R @ 253.0-253.5',253.3-254.5'	
				90° ,J,T,No,PI,R @ 254.5-256.0'	



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## BORING LOG

BORING NO. TB-C5

SHEET 18 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)													
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07													
SAMPLING										LOGGED BY TB 600 for Bonnie/Grainger										CHECKED BY 500 for Dogbey/Bonnie TB										APPROVED BY 800 Meyer													
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																															
PQ		49		5.0		3.4		1.2		68		24		255								0°, B, W, No, No, PI @ 254.9'																					
														325								0°, B, W, No, No, PI @ 255.4'																					
				256.0										324								soft zones along bedding @ 256.0-256.2', 256.6-256.9'																					
														323								90°, J, VN, Ca, Fi, St @ 256.2-260.0'																					
														322								soft zones along bedding @ 257.1-257.6'																					
														321								soft zones along bedding @ 257.9-258.2'																					
														320								soft zones along bedding @ 258.5-258.7'																					
														319								20°, J, W, No, No, PI @ 258.7', 259.2', 259.5'																					
														318								0°, B, W, No, PI, SR @ 259.5', 259.7', 260.5'																					
														317																													
				261.0										316								DOLOMITE; banded; gray; micritic; fresh; moderately strong; moderately hard; thin bedded; (Salina Group - Unit E).																					
														315								90°, J, T, No, No, PI, R @ 263.7-265.6'																					
														314								0°, B, N, No, No, PI, R @ 263.9', 264.1'																					
														313								highly fractured along bedding @ 264.2-265.1'																					
														312								0°, B, N, No, No, PI, R @ 265.6'																					
														311								highly fractured along bedding @ 266.0-267.4'																					
														310																													
														309								90°, J, N, No, No, PI, R @ 267.4-268.2', 270.6-270.9'																					
														308								0°, B, N, No, No, PI, SR (closely banded) @ 267.5-267.9', 268.2-268.4', 268.8-268.9'																					
														307								pitted @ 268.2-268.5', 270.2-271.3'																					
														306																													
														305								0°, B, N, No, PI, SR (closely banded) @ 269.3-269.4', 269.6-269.7'																					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 19 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																														
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)		TOTAL DEPTH 471.1 (feet)																												
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07		DATE FINISHED 07/18/07																												
SAMPLING										LOGGED BY TB <i>for</i> Bonnie/Grainger										CHECKED BY <i>for</i> Dogbey/Bonnie TB										APPROVED BY <i>for</i> Meyer																				
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																												
CORING																																																		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																												
							270								60°, J, N, No, No, PI, R @ 270.5'																																			
							271								ANHYDRITE; white to light gray; fresh; moderately strong; low hardness; interbedded w/DOLOMITE thin bands of light brownish gray, micritic; (Salina Group - Unit E).										Core box #25 starts @ 271.0'.																									
PQ 52 5.0 4.8 4.3 96 86							271.0								DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; thick bedded; w/stylolites; fossiliferous; (Salina Group - Unit E).																																			
							272								DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/thin shale bands & stylolites; (Salina Group - Unit E).										Pulled up 10' to switch out 5' rods. Hole blocked @ 273.0'; drilled out blockage.																									
							273																																											
							274																																											
							275																																											
							276																																											
PQ 53 3.0 2.8 2.8 93 93							276.0								DOLOMITE; light brownish gray; w/anhydrite seams; (Salina Group - Unit E).																																			
							277								DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/thin shale bands & stylolites; (Salina Group - Unit E).																																			
							278								0°, B, anhydrite, Fi, WA, S @ 278.3-278.7'										Core barrel jammed @ 279.0'.																									
							279																																											
PQ 54 2.0 2.0 2.0 100 100							279.0								DOLOMITE; pale yellowish brown; (Salina Group - Unit E).																																			
							280								DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/thin shale bands & stylolites; (Salina Group - Unit E).										Core box #26 starts @ 281.0'.																									
							281								0°, J, VN, anhydrite, Fi, WA @ 281.3'																																			
							282								DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; w/anhydrite pockets along convoluted bedding & stylolites; (Salina Group - Unit E).																																			
							283								0°, J, VN, anhydrite, Fi, WA @ 281.5', 281.7' 0°, J, VN, anhydrite, Fi, WA @ 282.3', 283.0', 283.3', 283.5'																																			
PQ 55 5.0 5.0 4.4 100 88							281.0								20°, J, VN, anhydrite, Fi, PI @ 283.4'																																			
							284								DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; (Salina Group - Unit E).																																			
							285								0°, J, VN, anhydrite, Fi, WA @ 283.6', 284.3', 285.0'																																			

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 20 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																																																																															
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07																																																																															
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PQ										56										5.0										5.0										4.9										100										98																																																	
																				287																																																																																									
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closely spaced stylolites @ 299.8-300.0'





## BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C5

SHEET 21 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																																			
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																											
PQ	59	5.0	5.0	5.0	100	100	300																																																										
							301																																																										
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							305																																																										
							306																																																										
PQ	60	5.0	5.0	5.0	100	100	307																																																										
							308																																																										
							309																																																										
							310																																																										
							311																																																										
PQ	61	5.0	5.0	4.9	100	98	312																																																										
							313																																																										
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							315																																																										

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**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 22 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																																																																																									
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PQ										62										5.0										5.0										4.8										100										96																																																											
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PQ										64										5.0										4.9										4.8										98										96																																																											
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DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/black shale bands; (Salina Group - Unit E).  
highly fractured along bedding @ 316.2-316.4'

ANHYDRITE; light gray to white; crystalline; fresh; weak; low hardness; w/convoluted bands & seams of light brownish gray dolomite; (Salina Group - Unit E).  
30°, J, VN, No, No, St @ 318.4'

DOLOMITE; light brownish gray & dark gray interbedded sequence; micritic; fresh; very strong; hard; w/partings of anhydrite; (Salina Group - Unit E).

DOLOMITE; interbedded dark gray & light gray; fresh; strong; hard; w/thin bands of anhydrite; (Salina Group - Unit E).  
0°, B, VN, anhydrite, Fi, WA @ 324.5', 325.8', 326.9'

gray soft clay seam @ 326.2-326.4'

DOLOMITE; light brownish gray & light gray; micritic; fresh; strong; hard; interbedded w/anhydrite & shale partings; bedding contorted; (Salina Group - Unit E).

30°, J, MW, anhydrite, Fi, PI @ 328.4', 328.5', 329.9'

Core box #30 starts @ 318.2'.

Core box #31 starts @ 327.6'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C5

SHEET 23 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																													
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																			
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07																			
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																			
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DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																												
PQ 65 5.0 5.0 5.0 100 100										330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345										250 249 248 247 246 245 244 243 242 241 240 239 238 237 236										SHALE; dolomitic; black; platy; fresh; strong; hard; (Salina Group - Unit E). DOLOMITE; light brownish gray; micritic; fresh; strong; hard interbedded w/ANHYDRITE; light gray; low hardness; massive; w/convoluted bedding black inclusions & partings; (Salina Group - Unit E) 0° B,N,No,No,PI,SR @ 339.5' CLAYSTONE; dolomitic; very dark gray; platy; strong; hard; w/anhydrite bands; (Salina Group - Unit C). 10° J,MW,anhydrite,Fi @ 339.8' 0° B,N,anhydrite,Fi @ 340.2', 340.8', 340.9' 0° B,MW,anhydrite,Fi,PI @ 341.9'										Core box #32 starts @ 336.7'.									

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)					471.1 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Parking area near propane tanks										Plant					06/21/07					07/18/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Bonnie/Grainger					Dogbey/Bonnie					Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS								
CORING																													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																							
							345																						
			346.0				346		235												Core box #33 starts @ 346.0'.								
							347		234		0°,B,MW,anhydrite,Fi,PI @ 346.7'																		
							348		233		anhydrite bands @ 348.1-348.2'																		
PQ	68	5.0	5.0	5.0	100	100	349		232		0°,B,MW,anhydrite,Fi,PI @ 348.8'																		
							350		231		anhydrite bands @ 349.1-349.2', 349.9'																		
							351		230																				
			351.0				351				DOLOMITE; dark gray & black; micritic; fresh; very strong; hard; w/partings of olive black claystone & bands of anhydrite; (Salina Group - Unit C).																		
							352		229		0°,B,MW,anhydrite,Fi,PI @ 352.4'																		
PQ	69	5.0	4.8	4.7	96	94	353		228																				
							354		227																				
							355		226		CLAYSTONE; very dark gray; fresh; very strong; moderately hard; massive; w/interbedded gray to light brownish gray layers & patches of micritic dolomite & seams of anhydrite; (Salina Group - Unit C).										Core box #34 starts @ 354.8'.								
							356		225																				
			356.0				357		224		DOLOMITE; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 356.5'										Water level @ 25.1' prior to drilling on 07/10/07.								
							358		223		CLAYSTONE; very dark gray; fresh; very strong; moderately hard; massive; w/interbedded gray to light brownish gray layers & patches of micritic dolomite & seams of anhydrite; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 357.1', 357.6'																		
PQ	70	5.0	5.0	5.0	100	100	359		222		10°,J,MW,anhydrite,Fi,PI @ 357.4'																		
							360		221		DOLOMITE; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 359.4'																		



BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C5

SHEET 25 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																																																																																																																									
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very dark gray; fresh; very strong; moderately hard; massive; w/interbedded gray to light brownish gray layers &amp; patches of micritic dolomite &amp; seams of anhydrite; (Salina Group - Unit C).</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>362</td> <td>219</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>363</td> <td>218</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>364</td> <td>217</td> <td></td> <td>0°,B,MW,anhydrite,Fi,PI @ 363.6'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>365</td> <td>216</td> <td></td> <td>light brownish gray dolomite band @ 363.6-363.8'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>366</td> <td>215</td> <td></td> <td>20°,J,MW,anhydrite,Fi,PI @ 363.9'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>367</td> <td>214</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>368</td> <td>213</td> <td></td> <td>DOLOMITE; interbedded light brownish gray &amp; dark gray; fresh; very strong; hard; w/partings of claystone &amp; anhydrite seams; (Salina Group - Unit C).</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>369</td> <td>212</td> <td></td> <td>0°,B,MW,anhydrite,Fi,PI @ 367.4'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>370</td> <td>211</td> <td></td> <td>CLAYSTONE; very dark gray; fresh; very strong; hard; w/anhydrite bands; (Salina Group - Unit C).</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>371</td> <td>210</td> <td></td> <td>grades very dark greenish black @ 370.0'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>372</td> <td>209</td> <td></td> <td>10°,J,MW,anhydrite,Fi,PI @ 370.2'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>373</td> <td>208</td> <td></td> <td>0°,B,MW,anhydrite,Fi,PI @ 370.4'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>374</td> <td>207</td> <td></td> <td>30°,J,N,anhydrite,Fi,WA @ 371.0'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>375</td> <td>206</td> <td></td> <td></td> <td></td> </tr> </table>										PQ	71	5.0	5.0	5.0	100	100	360			0°,B,MW,anhydrite,Fi,PI @ 359.5', 360.6'									361	220		CLAYSTONE; very dark gray; fresh; very strong; moderately hard; massive; w/interbedded gray to light brownish gray layers & patches of micritic dolomite & seams of anhydrite; (Salina Group - Unit C).									362	219											363	218											364	217		0°,B,MW,anhydrite,Fi,PI @ 363.6'									365	216		light brownish gray dolomite band @ 363.6-363.8'									366	215		20°,J,MW,anhydrite,Fi,PI @ 363.9'									367	214											368	213		DOLOMITE; interbedded light brownish gray & dark gray; fresh; very strong; hard; w/partings of claystone & anhydrite seams; (Salina Group - Unit C).									369	212		0°,B,MW,anhydrite,Fi,PI @ 367.4'									370	211		CLAYSTONE; very dark gray; fresh; very strong; hard; w/anhydrite bands; (Salina Group - Unit C).									371	210		grades very dark greenish black @ 370.0'									372	209		10°,J,MW,anhydrite,Fi,PI @ 370.2'									373	208		0°,B,MW,anhydrite,Fi,PI @ 370.4'									374	207		30°,J,N,anhydrite,Fi,WA @ 371.0'									375	206				<p>Core box #35 starts @ 364.4'. PQ-71: Left 1.0' in hole, recovered by going back in hole. Resulted in full recovery.</p> <p>Core box #36 starts @ 373.6'.</p>									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																																																																																																																																																																																																							
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							370	211		CLAYSTONE; very dark gray; fresh; very strong; hard; w/anhydrite bands; (Salina Group - Unit C).																																																																																																																																																																																																																																																																																																			
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**BLACK & VEATCH**

## BORING LOG

**BORING NO. TB-C5**

SHEET 26 OF 32

CLIENT Detroit Edison						PROJECT Fermi 3 COL Application							PROJECT NO. 147483																			
PROJECT LOCATION Monroe, MI									COORDINATES N 6677.7' E 4592.8'							GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)							TOTAL DEPTH 471.1 (feet)									
SURFACE CONDITIONS Parking area near propane tanks												COORDINATE SYSTEM Plant							DATE START 06/21/07							DATE FINISHED 07/18/07						
SAMPLING												LOGGED BY <i>Bonnie/Grainger TB</i>							CHECKED BY <i>M. P.</i>							APPROVED BY <i>E.Meyer TB</i>						
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																										
PQ	74	5.0	4.8	4.8	96	96	375			[Pattern]																						
							376		205		DOLomite; gray & light brownish gray; micritic; fresh; very strong; hard; interbedded w/bands & partings of greenish black claystone & anhydrite bands; (Salina Group - Unit C).																					
							377		204																							
							378		203		10° B,MW,anhydrite,Fi @ 377.5' anhydrite seam @ 378.1-378.5'																					
							379		202																							
							380		201		10° B,MW,anhydrite,Fi @ 379.2' anhydrite seam @ 379.3-379.4' 90°,J,N,anhydrite,Fi,Ir @ 379.7-381.0'																					
							381		200																							
							382		199		grades pale yellowish brown @ 381.9'																					
PQ	75	5.0	5.0	5.0	100	100	383		198		CLAYSTONE; dark gray; fresh; very strong; moderately hard; massive; w/anhydrite seams & pockets; (Salina Group - Unit C). 0° B,MW,anhydrite,Fi,PI @ 382.7', 383.2'	Core box #37 starts @ 383.0'																				
							384		197		0° B,MW,anhydrite,Fi,PI @ 383.9'																					
							385		196																							
							386		195																							
PQ	76	5.0	4.9	4.7	98	94	387		194																							
							388		193		40° J,N,anhydrite,Fi,PI @ 388.0'																					
							389		192																							
							390		191		anhydrite seams @ 389.3-390.4'																					



BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C5

SHEET 27 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6677.7'		GROUND ELEVATION (DATUM) E 4592.8'		TOTAL DEPTH 580.8 ft (NAVD 88)	
SURFACE CONDITIONS Parking area near propane tanks				COORDINATE SYSTEM Plant		DATE START 06/21/07		DATE FINISHED 07/18/07	
LOGGED BY Bonnie/Grainger				CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	77	5.0	5.0	5.0	100	100	390	190					
							391	189				contact @ 391.8' contorted	
							392	188				DOLOMITE; gray; micritic; fresh; very strong; hard; massive; (Salina Group - Unit C).	
							393	187				0°,B,MW,anhydrite,Fi,PI @ 392.8', 393.1'	
							394	186				90°,J,N,anhydrite,Fi,Ir @ 392.8-394.8'	
							395	185				0°,B,MW,anhydrite,Fi,PI @ 393.7'	
							396	184				DOLOMITE; gray; micritic; fresh; very strong; hard; banded w/very dark gray bands & partings; (Salina Group - Unit C).	
							397	183				0°,B,MW,anhydrite,Fi,PI @ 394.5'	
							398	182				0°,B,MW,anhydrite,Fi,PI @ 395.9'	
							399	181				DOLOMITE; crystalline; very dark gray to olive black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit C).	
							400	180					
							401	179				DOLOMITE; gray & light brownish gray, interbedded; micritic; fresh; very strong; hard; (Salina Group - Unit C).	
							402	178				0°-5°,B,MW,anhydrite,Fi,WA @ 401.6', 401.7'	
							403	177				DOLOMITE; crystalline; very dark gray to olive black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit C).	
							404	176					
							405						

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Core box #38 starts @ 392.7'.

Core box #39 starts @ 402.0'.



## BLACK &amp; VEATCH

## BORING LOG

BORING NO. TB-C5

SHEET 28 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6677.7'		GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)		TOTAL DEPTH 471.1 (feet)				
SURFACE CONDITIONS Parking area near propane tanks				COORDINATE SYSTEM Plant		DATE START 06/21/07		DATE FINISHED 07/18/07				
SAMPLING				LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	80	5.0	5.0	5.0	100	100	405		175			
							406		174			
							407		173			
							408		172			
							409		171			
							410		170			
							411		169			
							412		168			
							413		167			
							414		166			
							415		165			
							416		164			
							417		163			
							418		162			
							419		161			
							420					

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**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 29 OF 32

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6677.7'		GROUND ELEVATION (DATUM) E 4592.8'		580.8 ft (NAVD 88)		TOTAL DEPTH 471.1 (feet)		
SURFACE CONDITIONS Parking area near propane tanks						COORDINATE SYSTEM Plant		DATE START 06/21/07		DATE FINISHED 07/18/07		
SAMPLING				LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							420					Core box #41 starts @ 420.4'.
			421.0				421		160			
							422		159			
PQ	83	5.0	5.0	5.0	100	100	423		158		CLAYSTONE & DOLOMITE; core divided vertically by rock type along irregular divide; very dark gray claystone on one side & brownish yellow dolomite & anhydrite on other side; (Salina Group - Unit C). brecciated; well indurated @ 421.5-422.6' 0°,B,MW,anhydrite,Fi,PI @ 422.5', 422.7'	
							424		157		DOLOMITE; yellowish red; micritic; fresh; very strong; hard; w/near vertical fracture filled w/very dark gray matrix & dolomite clasts; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 423.4', 424.2'	
							425		156		DOLOMITE; interbedded gray & black; micritic; fresh; very strong; hard; w/anhydrite nodules; (Salina Group - Unit C).	
			426.0				426		155			
							427		154		ANHYDRITE interbedded with DOLOMITE; white; crystalline; fresh; strong; low hardness; banded w/ convoluted bedding; (Salina Group - Unit B).	
PQ	84	5.0	5.0	5.0	100	100	428		153			
							429		152			
							430		151			
							431		150			Core box #42 starts @ 429.2'.
			431.0				432		149			
							433		148			
PQ	85	5.0	4.7	4.7	94	94	434		147		DOLOMITE; interbedded sequence grading downward from pale yellowish brown to olive black; micritic; fresh; very strong; hard; convoluted; (Salina Group - Unit B).	
							435		146		0°,B,MW,anhydrite,Fi,PI @ 434.4'	
												PQ-85: Initially no recovery. Went back into recover 4.5' of core. Remaining 0.2' recovered from run PQ-86.

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CLIENT		PROJECT		PROJECT NO.									
Detroit Edison		Fermi 3 COL Application		147483									
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)									
Monroe, MI		N 6677.7' E 4592.8'		580.8 ft (NAVD 88)									
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START									
Parking area near propane tanks		Plant		06/21/07									
SAMPLING		LOGGED BY		CHECKED BY									
		Bonnie/Granger		Dogbey/Bonnie									
CORING		APPROVED BY											
		Meyer											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
								435				DOLOMITE; mottled light gray & dark gray; micritic; fresh; very strong; hard; (Salina Group - Unit B).	
			436.0					436				DOLOMITE; interbedded gray & black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit B). 0° B,MW,anhydrite,Fi,PI @ 436.2' 30° J,MW,anhydrite,Fi,PI @ 436.8'	
PQ	86	5.0	5.0	5.0	100	100		437				30° J,MW,anhydrite,Fi,PI @ 437.9'	
								438				ANHYDRITE with DOLOMITE; white & dark gray; crystalline; fresh; strong; low hardness; banded; convoluted; (Salina Group - Unit B). 30° J,MW,anhydrite,Fi,PI @ 439.0'	Core box #43 starts @ 439.4'.
								439					
								440					
			441.0					441				DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; (Salina Group - Unit B).	Water level @ 23.0' prior to drilling on 07/18/07.
								442				DOLOMITE; interbedded gray, light brownish gray & olive black; micritic; fresh; very strong; hard; banded; w/anhydrite seams & nodules; (Salina Group - Unit B). 0° B,MW,anhydrite,Fi,PI @ 441.7'	
PQ	87	5.0	5.0	4.9	100	98		443				ANHYDRITE & DOLOMITE; dark gray & light brownish gray; micritic; fresh; strong; intermingled; (Salina Group - Unit B).	
								444					
								445				DOLOMITE; crystalline; light brownish gray & olive black; banded; micritic; fresh; very strong; hard; w/ anhydrite nodules; (Salina Group - Unit B).	
			446.0					446					
								447				DOLOMITE & ANHYDRITE; light brownish gray & dark gray; micritic; fresh; very strong; hard; w/ occasional olive black partings; (Salina Group - Unit B).	Core box #44 starts @ 448.3'.
PQ	88	5.0	5.0	5.0	100	100		448					
								449					
								450					

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 31 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																																																																															
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07																																																																															
SAMPLING										LOGGED BY Bonnie/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																								
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																							
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																						
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7/16/2008 2:54 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C5

SHEET 32 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 471.1 (feet)																															
SURFACE CONDITIONS Parking area near propane tanks										COORDINATE SYSTEM Plant										DATE START 06/21/07										DATE FINISHED 07/18/07																															
SAMPLING										LOGGED BY TB Bonnie/Grainger										CHECKED BY TB Dogbey/Bonnie										APPROVED BY Meyer																															
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
PQ		92		5.0		5.0		5.0		100		100		465				115		[Pattern]		0°,B,MW,anhydrite,Fi,PI @ 464.4'																				Core box #46 starts @ 466.0'.																			
														466				114		[Pattern]		DOLOMITE; argillaceous; light brownish gray & gray; micritic; fresh; strong; hard; banded w/stylolites; (Salina Group - Unit B). 0°,B,MW,anhydrite,Fi,PI @ 465.4'																																							
														467				113		[Pattern]		ANHYDRITE; crystalline; dark gray & dark grayish brown; micritic; fresh; strong; low hardness; w/ convoluted deposits of brown dolomite; (Salina Group - Unit B).																																							
														468				112		[Pattern]																																									
														469				111		[Pattern]																																									
														470				110		[Pattern]																																									
														471																																															
														472				109																																											
														473				108																																											
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														476				105																																											
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														479				102																																											
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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C6

SHEET 1 OF 4

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6510.2'				E 4615.9'				580.6 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Gravel parking lot west side of fitness building						Plant				07/17/07		07/27/07			
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY			
						Mass/Ang/Bonnie				Dogbey/Mass		Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY									
CORING															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
							0				Well graded GRAVEL with Cobbles (GW) - About 80% fine to coarse, angular to subangular, hard gravel w/max. size 3"; about 10% angular, hard cobbles w/max. size 5"; about 10% fine to coarse, angular to subangular, hard sand; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.			
							1								
							2								
							3								
							4								
							5								
							6								
S	1		6.0			NR	7				Silty SAND (SM) - About 50% fine to coarse, angular, hard sand; about 50% low plasticity, low toughness, rapid dilatancy, low dry strength fines; gray; moist to wet; weak reaction w/HCl; homogeneous; (Fill). clayey gravel parting, black, weak reaction w/HCl @ 6.0'	Below 6.0' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Discrete sample S01A collected from S1.			
							8								
							9								
							10								
S	2		10.0			NR	11								
							12								
							13								
TW	2		12.0			0	14								
							15								

**BLACK & VEATCH**

## BORING LOG

**BORING NO. TB-C6**

SHEET 2 OF 4

CLIENT										PROJECT																																																	
Detroit Edison										Fermi 3 COL Application																																																	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																												
Monroe, MI					N 6510.2'					E 4615.9'					580.6 ft (NAVD 88)																																												
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																																							
Gravel parking lot west side of fitness building										Plant					07/17/07					07/27/07																																							
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																																							
										ECA TB Mass/Ang/Bonnie					E. J. TB for Dogbey/Mass					Meyer																																							
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS																								
CORE SIZE										RUN NUMBER					RUN LENGTH					RUN RECOVERY					RQD					PERCENT RECOVERY					RQD																								
S										3					15.0										4.0																																		
TW										4					19.0										1.1																																		
SPT										5					11					30					33					63					1.2																								
SPT										6					12					14					12					26					1.3																								
SPT										7					15					24					17					41					0.9																								

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C6

SHEET 3 OF 4

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6510.2' E 4615.9'				GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot west side of fitness building				COORDINATE SYSTEM Plant				DATE START 07/17/07		DATE FINISHED 07/27/07		
SAMPLING				LOGGED BY E.A. TB Mass/Ang/Bonnie				CHECKED BY TB hr Dogbey/Mass		APPROVED BY Meyer		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	8	18	15	28	43	0.5	30		550		subrounded to subangular sand; about 5% fines; gray; dense; wet; (Weathered Bedrock).	
							31		549			
			32.0				32		548		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).	Below 32.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Hole open to 35.5'. Sonic core S-9 stored in box labeled S1.
S	9					3.5	33		547			
							34		546			
							35		545			
			35.5				36		544		DOLOMITE; argillaceous; dark grayish brown and light brownish gray, banded; pitted; micritic; fresh to slightly weathered; very strong; hard; w/dark gray, very fine grained, fresh, very strong, very hard shale partings; pits 0.04-0.08"; (Bass Islands Group). highly fractured @ 35.7-35.9', 37.4-37.6' very closely spaced stylolites @ 35.9-36.0' 90°, J,T,WA @ 36.0-37.0' 0.4" vug @ 36.7' shale partings @ 37.4'-37.6' 60°, J,No,No,PI,SR @ 37.6-37.7' 0°, B,No,No,PI,SR @ 38.0-38.2'	Set nominal 6" temporary steel casing to 35.5'. Core box #1 starts @ 35.5'. Below 35.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 16.7' prior to drilling on 07/27/07.
HQ	1	3.0	3.0	1.9	100	63	37		543			
							38		542			
			38.5				39		541		shale partings - 0°, B,PI,SR @ 38.9', 39.1', 39.3', 39.6', 39.7', 40.0'	
							40		540			
HQ	2	5.3	5.3	1.2	100	23	41		539		DOLOMITE; argillaceous; grayish brown & dark gray, banded; micritic; fresh; very strong; very hard; w/stylolites; (Bass Islands Group). very closely spaced stylolites @ 40.3-40.7' shale partings - 0°, B,PI,SR @ 40.4', 40.6' 90°, J,Ca,Pa,PI,SR @ 40.9-41.2' highly fractured @ 41.2-41.8' 80°, J,Ca,Fi,PI,SR @ 41.8-42.2' 0°, B,Ca,Pa,PI,SR @ 42.2', 42.9' 90°, J,Ca,Fi,WA,SR @ 42.2-42.9' 80°, J,Ca,PA,PI,SR @ 42.2-42.4'	
							42		538			
							43		537			
			43.8				44		536		70°, J,Ca/CI,Pa,PI,SR @ 44.3-44.9'	
							45		536		gray, mottled; fine grained (crystalline); slightly	

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C6

SHEET 4 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483													
PROJECT LOCATION Monroe, MI										COORDINATES N 6510.2' E 4615.9'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 51.3 (feet)											
SURFACE CONDITIONS Gravel parking lot west side of fitness building										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 07/27/07											
SAMPLING										LOGGED BY TB EJA TB hr Mass/Ang/Bonnie										CHECKED BY 2 m TB Dogbey/Mass										APPROVED BY Meyer			
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES		N VALUE		SAMPLE RECOVERY		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
HQ		3		5.0		5.0		1.9		100		38		45								<p>weathered; strong @ 44.7-45.2'</p> <p>shale partings - 0°,B,PI,SR @ 45.2', 45.9', 46.2'</p> <p>100°,J,No,No,PI,SR @ 46.2-46.8'</p> <p>80°,J,No,No,PI,SR @ 46.6-46.9'</p> <p>0°,J,No,No,PI,SR @ 47.2'</p> <p>50°,J,No,No,PI,SR @ 47.5-47.7'</p> <p>70°,J,No,No,PI,SR @ 47.7-48.0'</p> <p>130°,J,No,No,PI,SR @ 47.9-48.2'</p> <p>DOLOMITE; light gray to gray; vuggy; micritic to very fine grained; fresh to slightly weathered; strong; very hard; (Bass Islands Group).</p> <p>20°,J,No,No,PI,SR @ 48.1'</p> <p>very closely spaced stylolites @ 48.6'</p> <p>highly fractured @ 48.8-49.0'</p> <p>DOLOMITE; argillaceous; gray, banded; micritic to very fine grained; fresh; strong; very hard; (Bass Islands Group).</p> <p>very closely spaced stylolites @ 49.3-49.5'</p> <p>70°,J,No,No,Ir,SR @ 49.4-49.7'</p> <p>90°,J,No,No,PI,SR @ 49.8-49.9', 49.8-50.2'</p> <p>0°,B,No,No,PI,SR @ 49.9'</p> <p>90°,J,T,No,No,PI,SR @ 50.5-51.3'</p>										Core box #2 starts @ 48.5'.	
HQ		4		2.5		2.5		0.9		100		36		49																			
														50																			
														51																			
														52																			
														53																			
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														57																			
														58																			
														59																			
														60																			



**BLACK & VEATCH****BORING LOG**

BORING NO. WT-E1

SHEET 1 OF 2

CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483														
PROJECT LOCATION Monroe, MI					COORDINATES N 6223.8' E 4982.6'					GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)					TOTAL DEPTH 27.1 (feet)									
SURFACE CONDITIONS Asphalt parking lot					COORDINATE SYSTEM Plant					DATE START 08/22/07					DATE FINISHED 08/23/07									
SAMPLING										LOGGED BY <i>Grainger</i>					CHECKED BY <i>Dogbey/Bonnie</i>					APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																		
							0		580		ASPHALT					<p>Boring advanced w/vacuum excavation.</p> <p>Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p> <p>Discrete sample SC1 collected from S1 @ 9.0-9.25</p> <p>Discrete sample SC2 collected from S2 @ 13.0-13.25</p>								
							1		579															
							2		578															
							3		577															
							4		576															
							5		575															
							6		574															
							7		573															
							8		572															
							9		571															
							10		570															
							11		569															
							12		568															
							13		567															
							14		566															
							15		566															

**BLACK & VEATCH****BORING LOG**

BORING NO. WT-E1

SHEET 2 OF 2

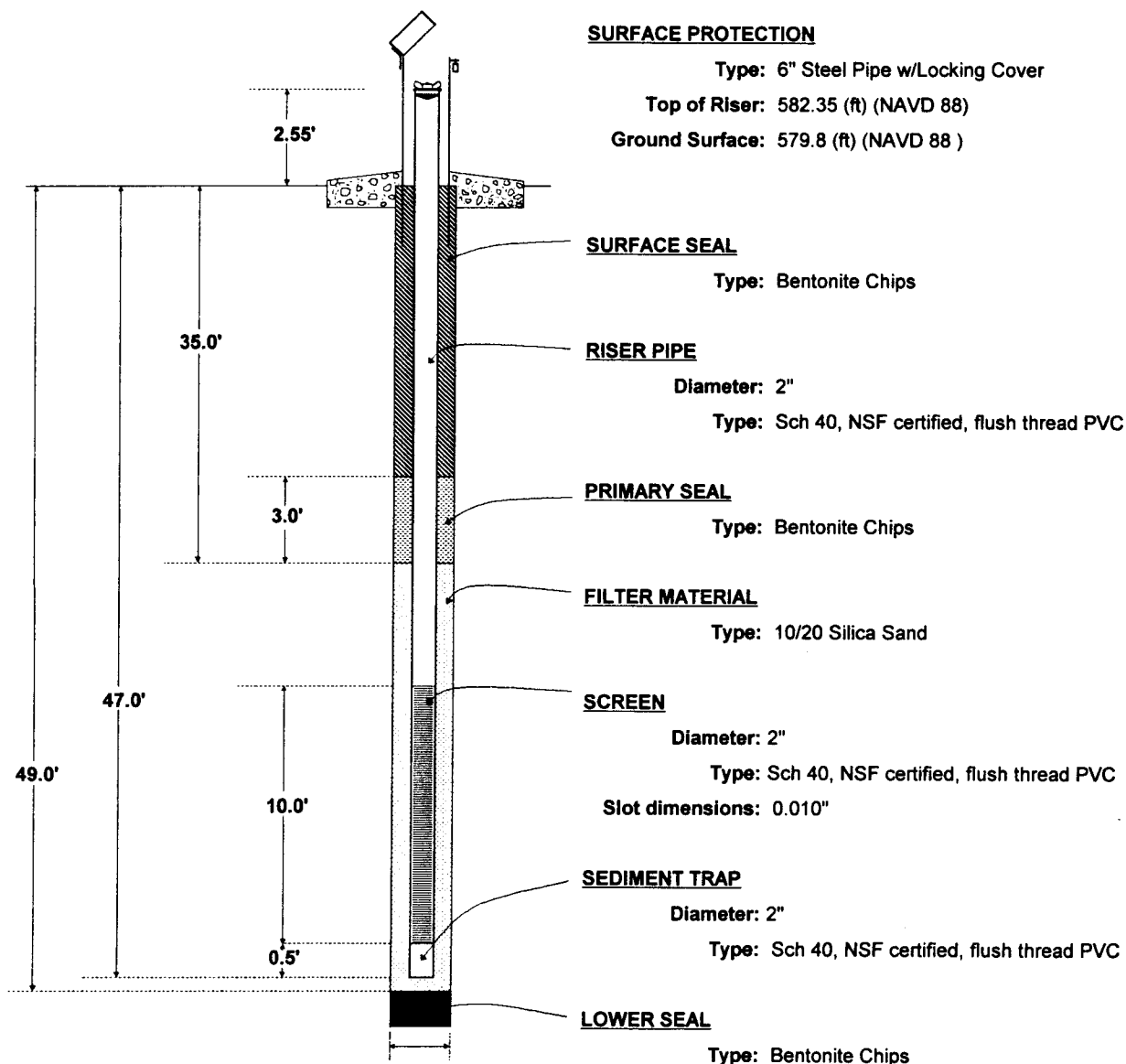
CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																						
PROJECT LOCATION Monroe, MI										COORDINATES N 6223.8'										GROUND ELEVATION (DATUM) E 4982.6' 580.5 ft (NAVD 88)										TOTAL DEPTH 27.1 (feet)																																																												
SURFACE CONDITIONS Asphalt parking lot										COORDINATE SYSTEM Plant										DATE START 08/22/07										DATE FINISHED 08/23/07																																																												
SAMPLING										LOGGED BY Grainger										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer Em																																																												
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="7">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING							CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																				
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																				
							15																																																																																			
							15.5																																																																																			
SPT 3 4 4 6 10 0.2							16																																																																																			
							17																																																																																			
							18																																																																																			
TW 4 1.8							19																																																																																			
							20																																																																																			
TW 5 0.5							21																																																																																			
							22																																																																																			
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SPT 6 7 11 50/5" 50+ NR							24																																																																																			
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**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-381D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5304.6' E 1843.0'		TOP OF RISER ELEVATION (DATUM) 582.35 ft (NAVD 88)	DATE 06/04/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Grainger <i>Em for</i>		CHECKED BY Meyer <i>Em</i>	APPROVED BY Meyer <i>Em</i>	



**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 99.0'-49.0'; set screen & riser pipe w/stainless steel centralizers; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 80 gallons of water.



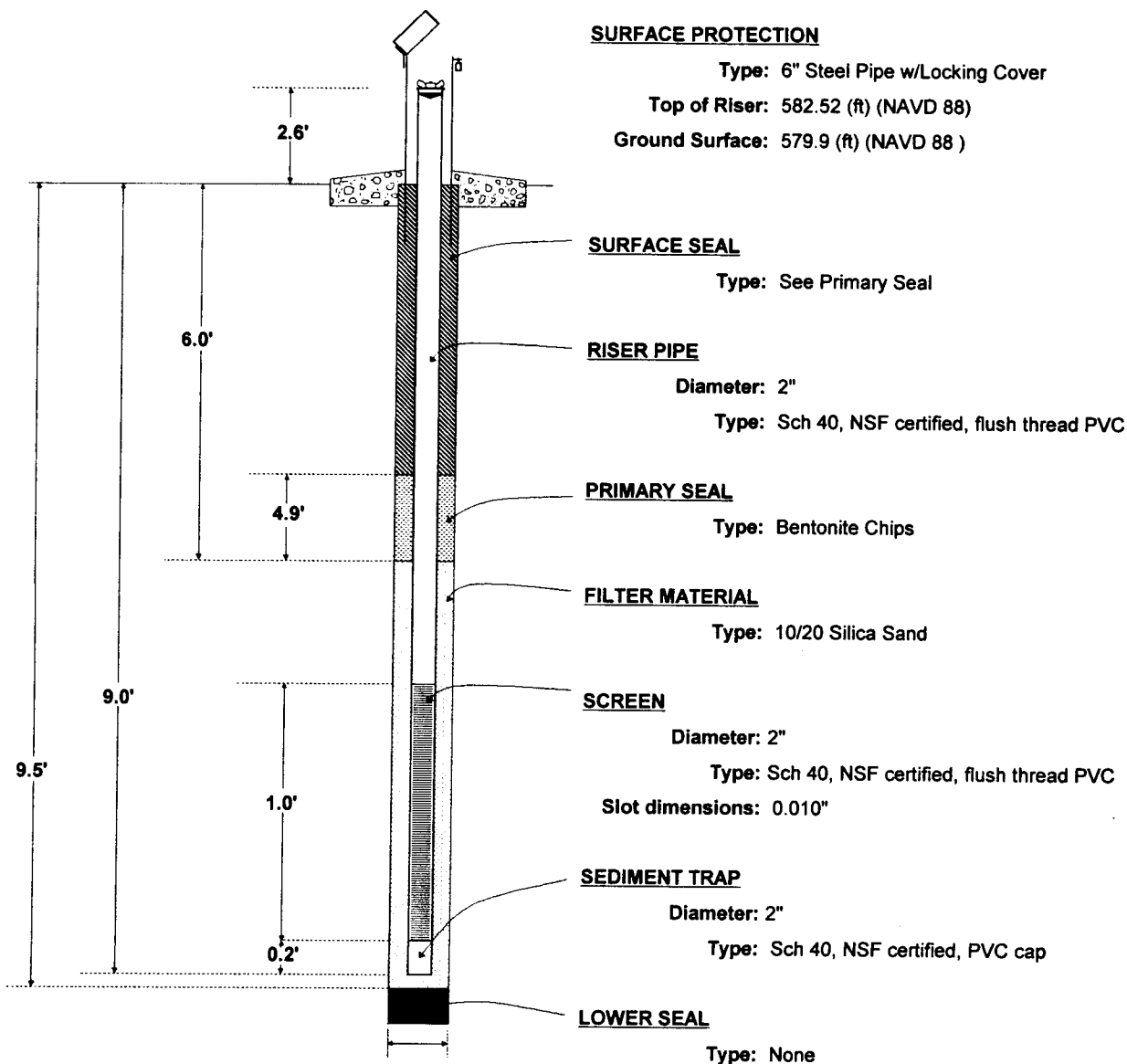
**BLACK & VEATCH**

# **MONITORING WELL**

MONITORING WELL NO. MW-381S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5306.7' E 1838.4'	TOP OF RISER ELEVATION (DATUM) 582.52 ft (NAVD 88)	DATE 05/29/07
STRATUM MONITORED Lean Clay			
INSPECTOR Ohlmacher <i>GO</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>



**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; no additional filter required; placed bentonite seal; installed protective cover w/concrete pad at surface.

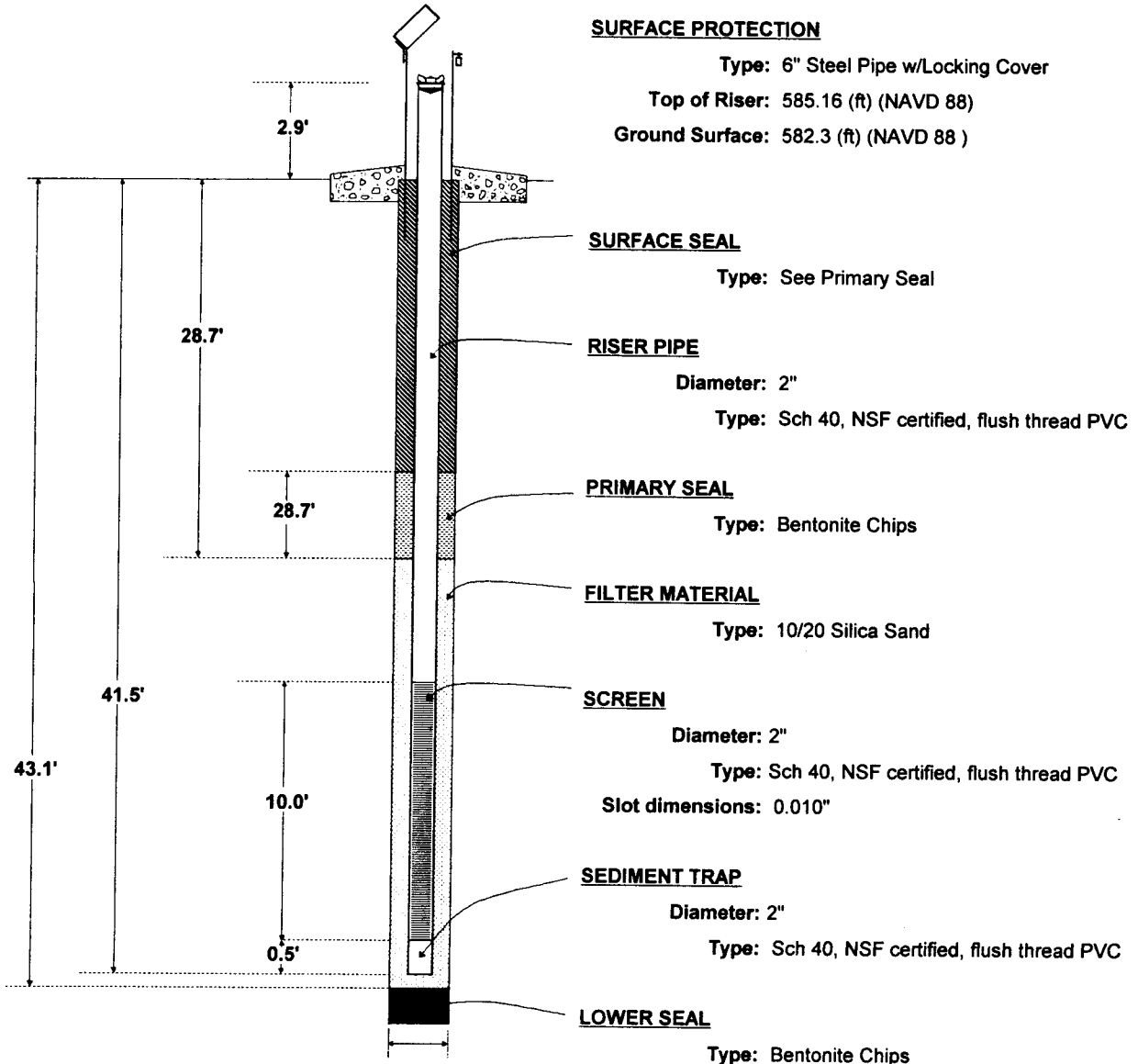
**NOTES:** Bottom cap attached w/stainless steel screws. Developed by pumping 3 gallons of water - pumped dry.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-383D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5805.4' E 3435.7'	TOP OF RISER ELEVATION (DATUM) 585.16 ft (NAVD 88)		DATE 05/31/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Ohlmacher <i>CO</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**BORING DIAMETER**

DIAMETER: 6": 0-29', 4.8": 29'-43.1'

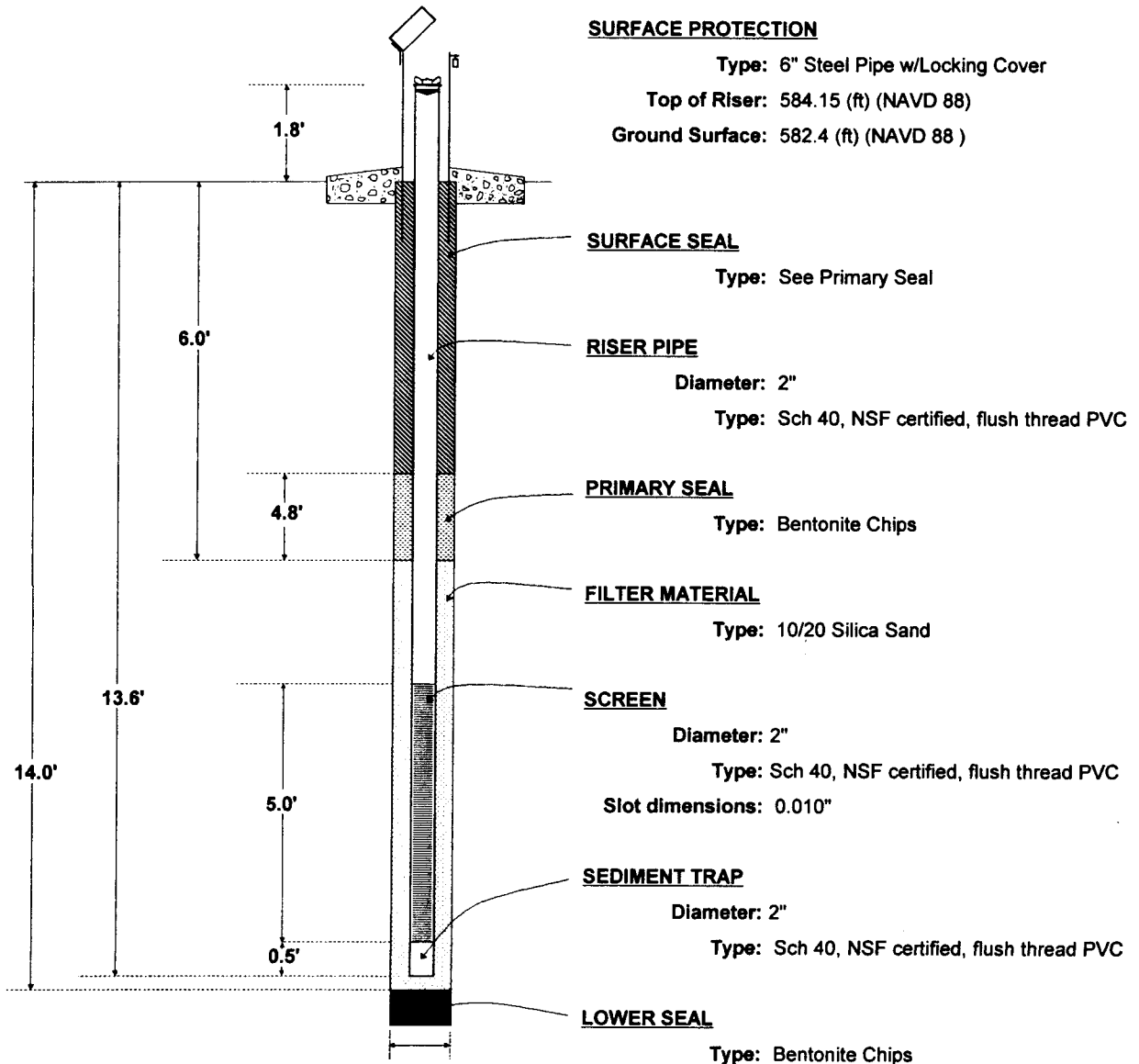
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-43.1'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by air lifting 250 gallons of water.

**BLACK & VEATCH****MONITORING WELL****MONITORING WELL NO. MW-383S****SHEET 1 OF 1**

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5809.1' E 3432.7'	TOP OF RISER ELEVATION (DATUM) 584.15 ft (NAVD 88)	DATE 05/16/07
STRATUM MONITORED Sandy Lean Clay, Lean Clay			
INSPECTOR Ohlmacher	CHECKED BY Meyer	APPROVED BY Meyer	

**BORING DIAMETER****DIAMETER: 8"**

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower seal from 16.5'-14.0'; set screen & riser pipe; placed filter; no water so not surged; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

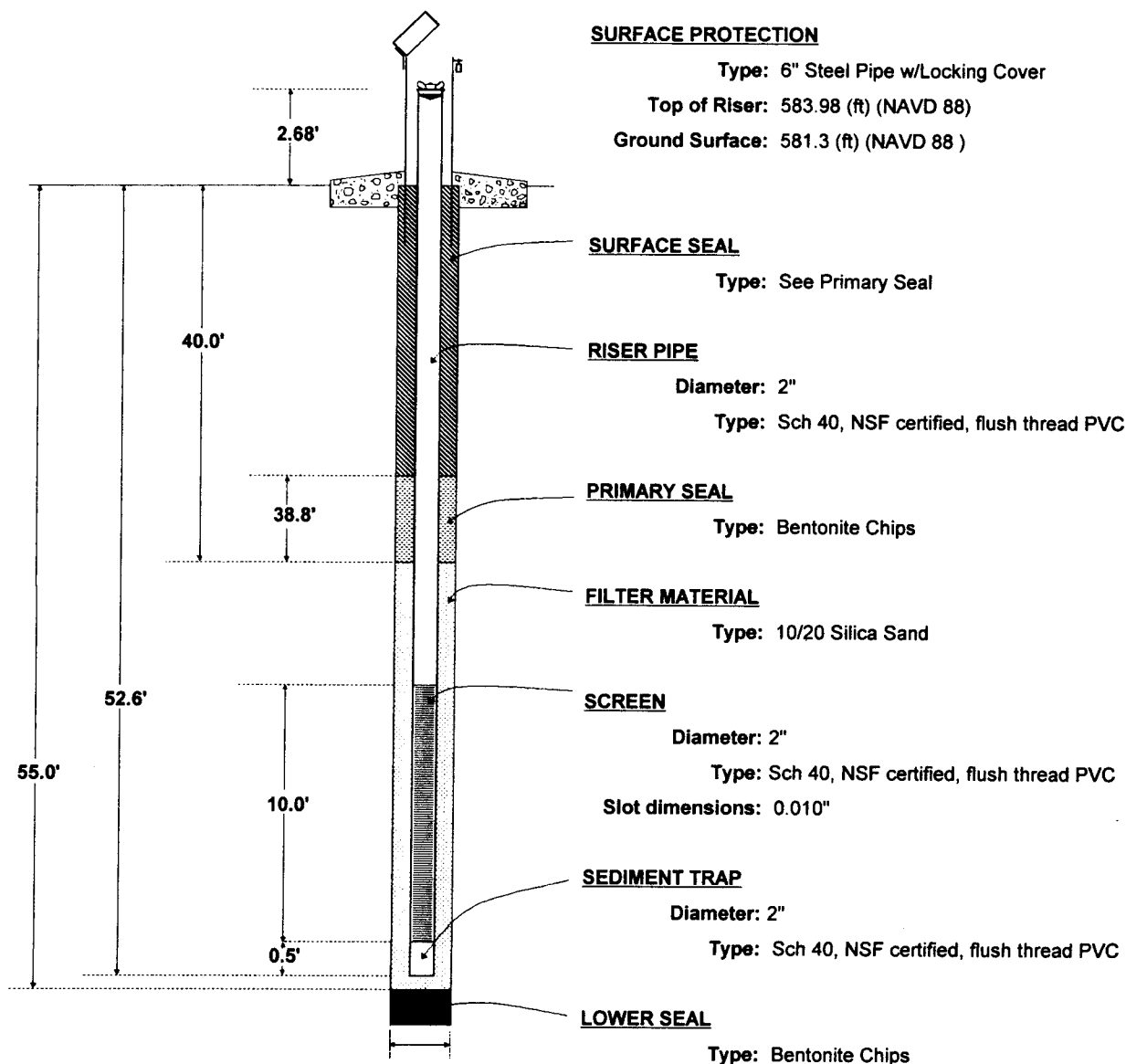
**NOTES:** Developed by pumping 34.8 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-384D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		SHEET TOP PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5537.6' E 4402.8'		TOP OF RISER ELEVATION (DATUM) 583.98 ft (NAVD 88)	DATE 05/31/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Ohlmacher <i>GO</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**BORING DIAMETER**

DIAMETER: 6": 0-33', 4.8": 33'-55.0'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-55.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

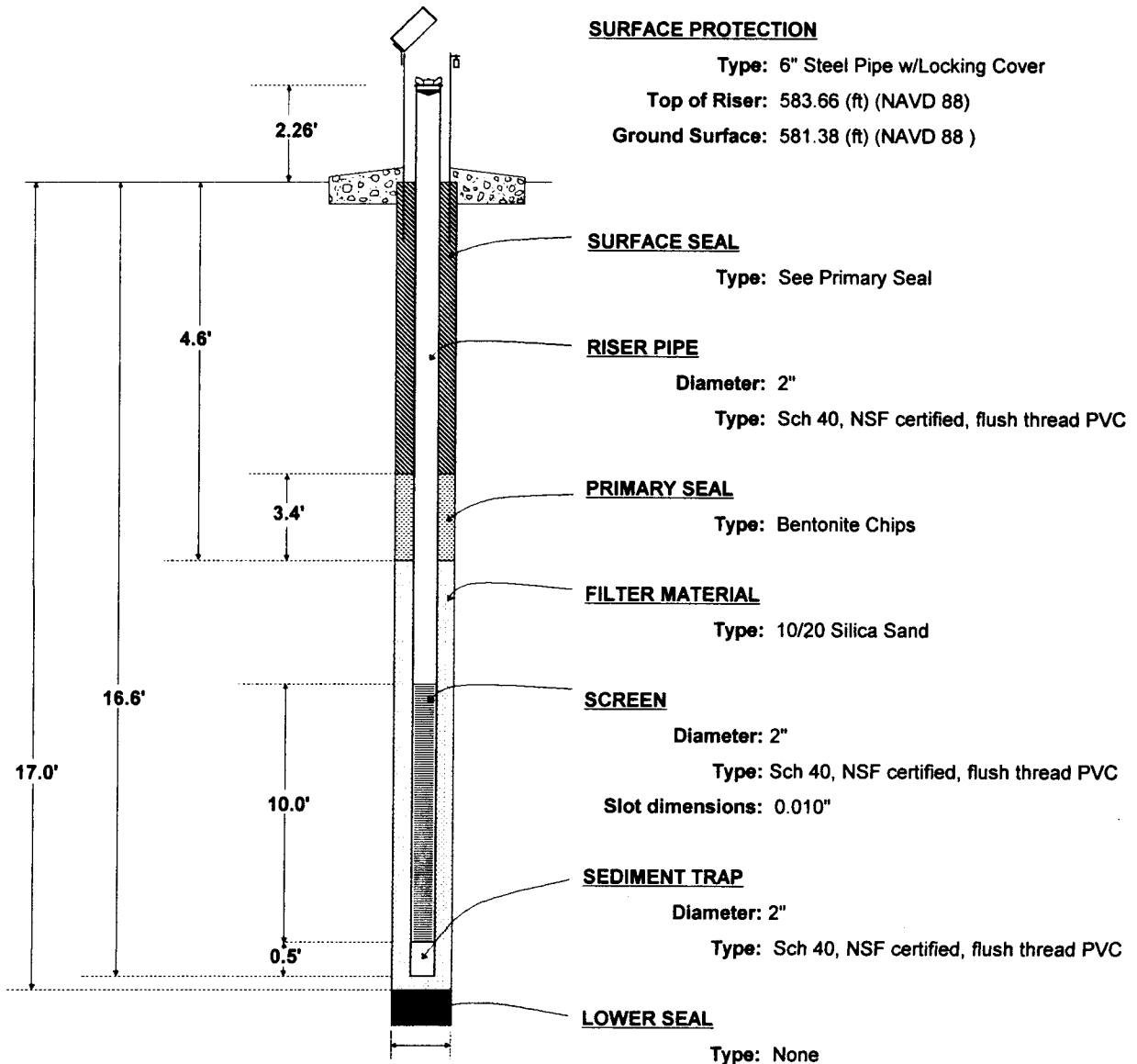
**NOTES:** Developed by pumping 110 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-384S

SHEET 1 OF 1

CLIENT	Detroit Edison		PROJECT	Fermi 3 COL Application	PROJECT NO.	147483
PROJECT LOCATION	Monroe, MI	COORDINATES	N 5532.6' E 4403.9'	TOP OF RISER ELEVATION (DATUM)	DATE	05/18/07
STRATUM MONITORED Fat Clay, Lean Clay						
INSPECTOR	Ohlmacher <i>GLO</i>	CHECKED BY	Meyer <i>SM</i>	APPROVED BY	Meyer <i>SM</i>	



**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 76.5 gallons of water over a multiple day period - pumped dry multiple times.

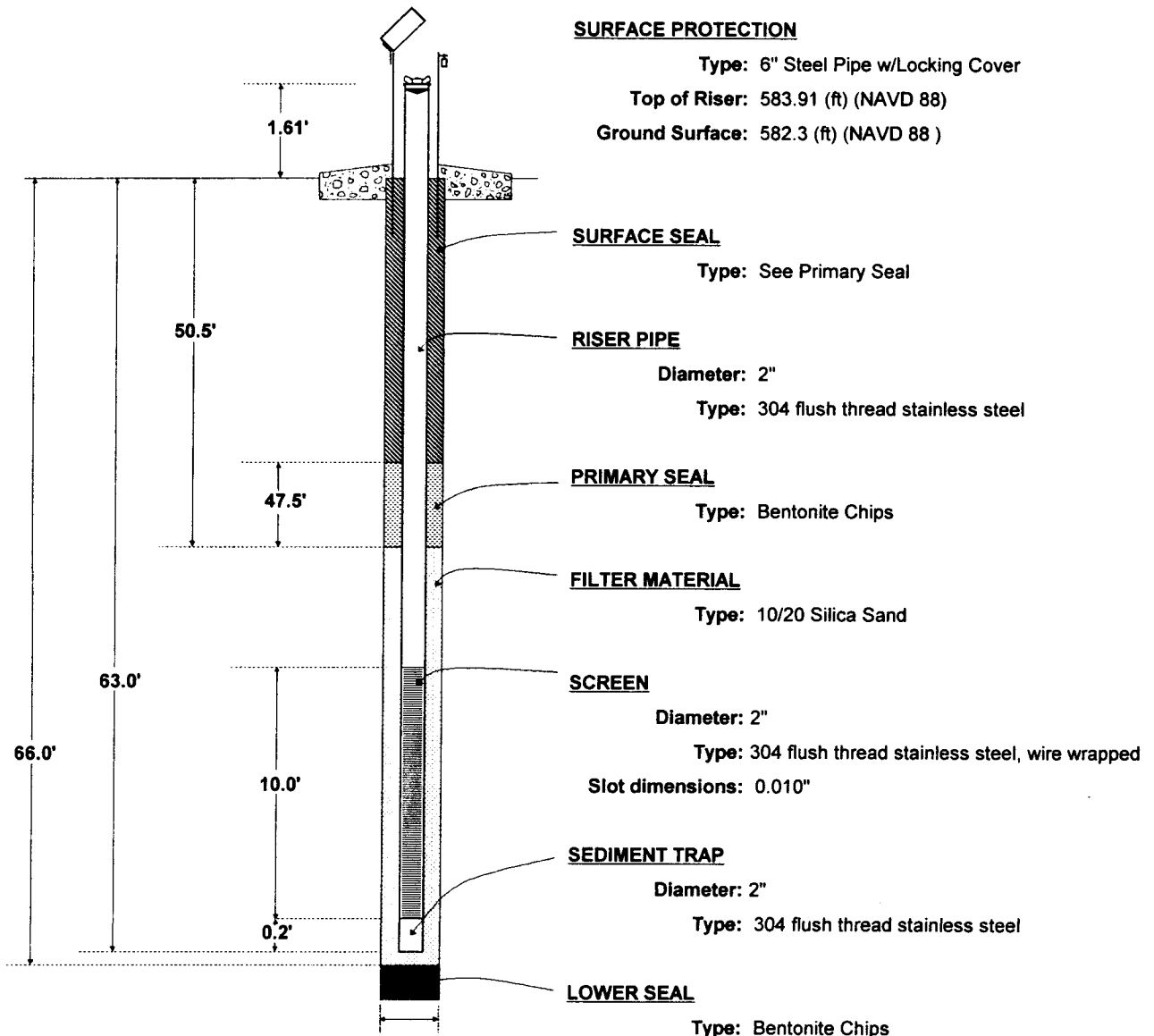


**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-386D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6336.7' E 5203.8'	TOP OF RISER ELEVATION (DATUM) 583.91 ft (NAVD 88)	DATE 06/06/07
STRATUM MONITORED Bass Islands Group Dolomite			
INSPECTOR Duncan	CHECKED BY Meyer	APPROVED BY Meyer	

**BORING DIAMETER**

DIAMETER: 6": 0-28.5', 4.8": 28.5'-66.0'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; on 06/03/08 placed lower bentonite seal from 91.5'-66.0'; problems during installation required well to be pulled & redrilled to 66.0'; on 06/06/07 set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

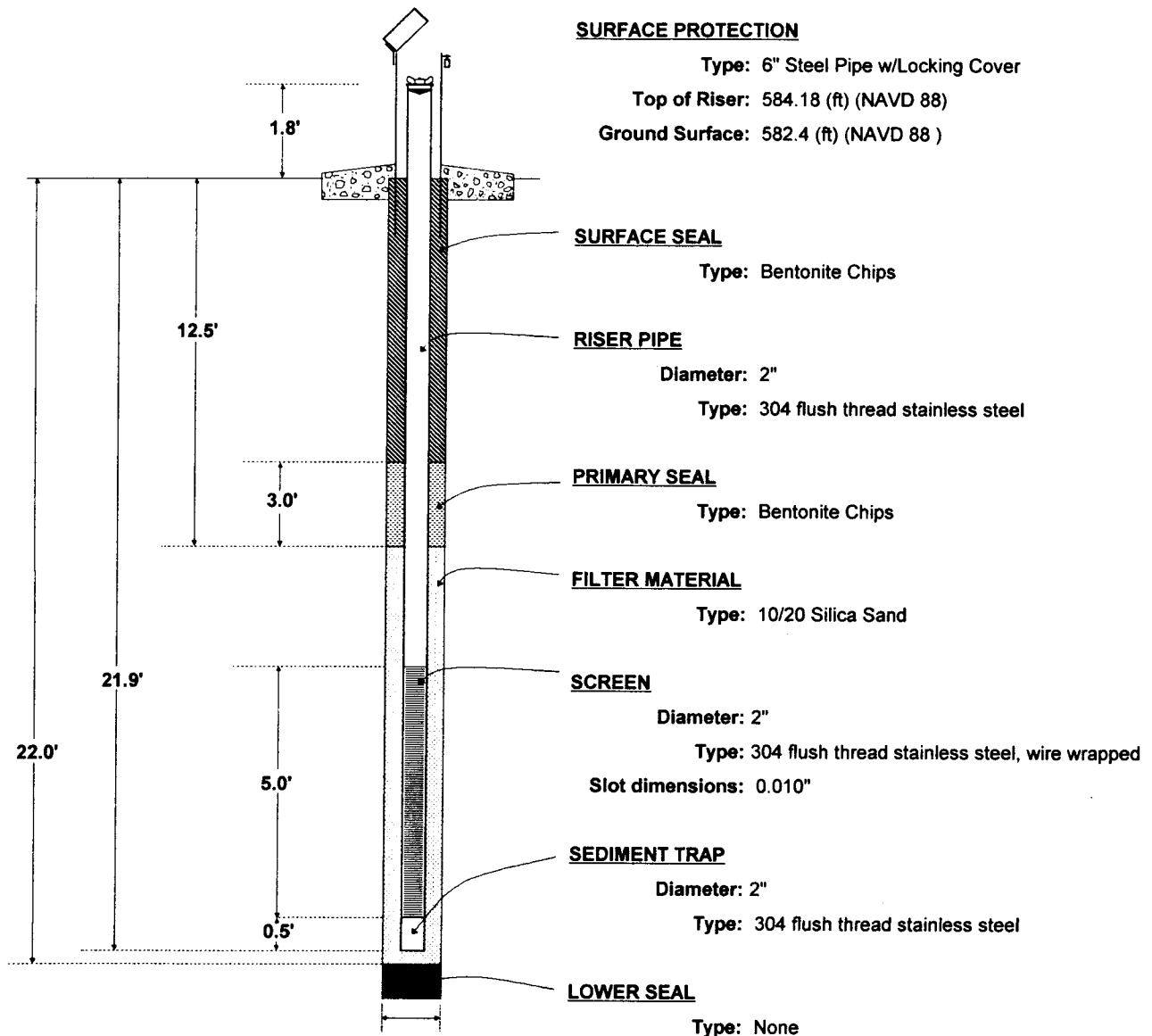
**NOTES:** Developed by pumping 455 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-386S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6343.9' E 5203.6'	TOP OF RISER ELEVATION (DATUM) 584.18 ft (NAVD 88)	DATE 05/23/07
STRATUM MONITORED Lean Clay, Fat Clay			
INSPECTOR Deeken <i>gk</i>	CHECKED BY Meyer <i>sm</i>	APPROVED BY Meyer <i>sm</i>	



**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

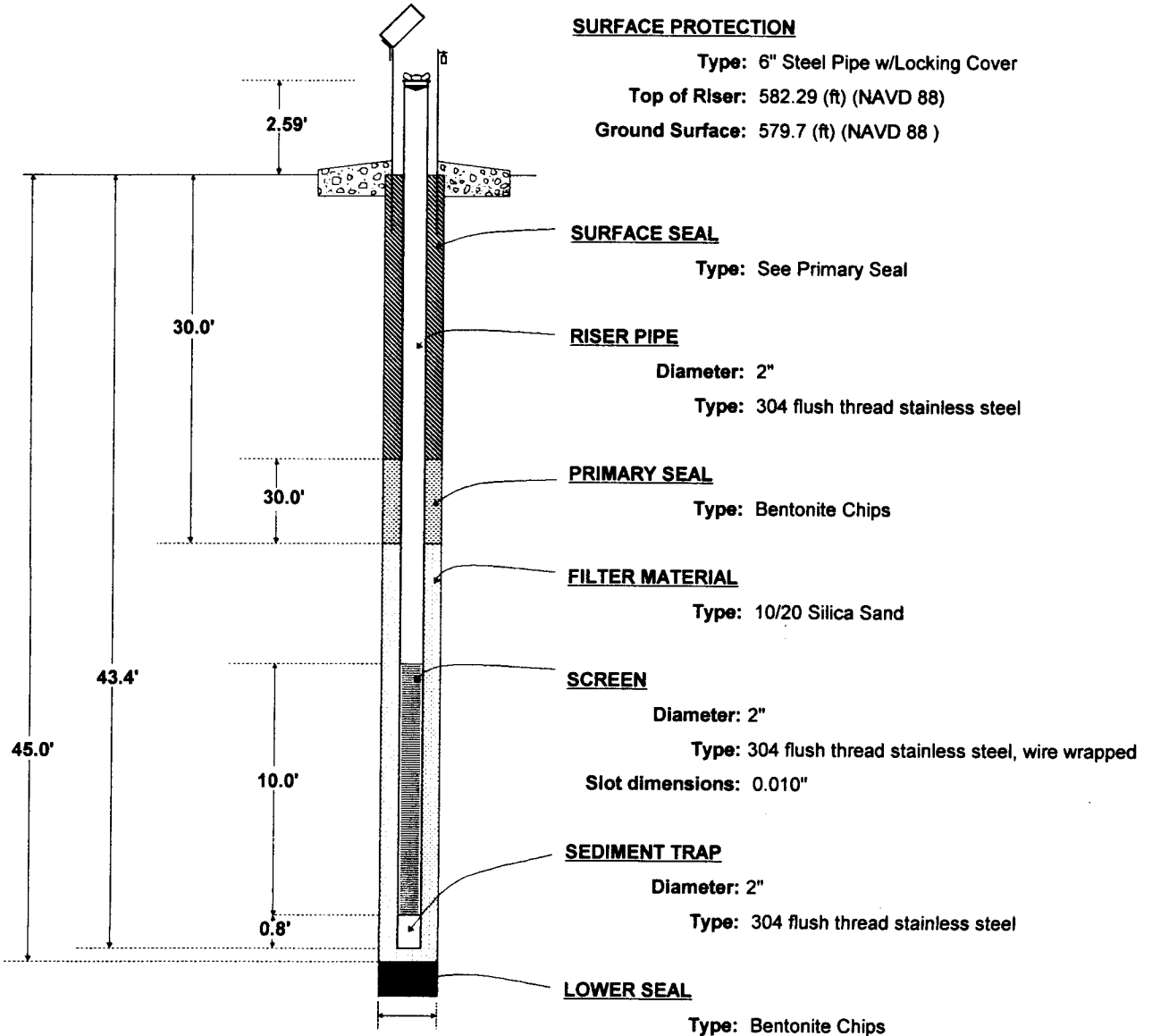
**NOTES:** Developed by pumping 34.5 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-387D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6660.2' E 4150.1'	TOP OF RISER ELEVATION (DATUM) 582.29 ft (NAVD 88)	DATE 06/01/07
STRATUM MONITORED Lean Clay, Bass Islands Group Dolomite			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer	

**BORING DIAMETER**

DIAMETER: 6": 0-30.7', 4.8": 30.7'-45.0'

\*Note-Diagram not shown to scale




**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 103.5'-45.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal & hydrated; installed protective cover w/concrete pad at surface.

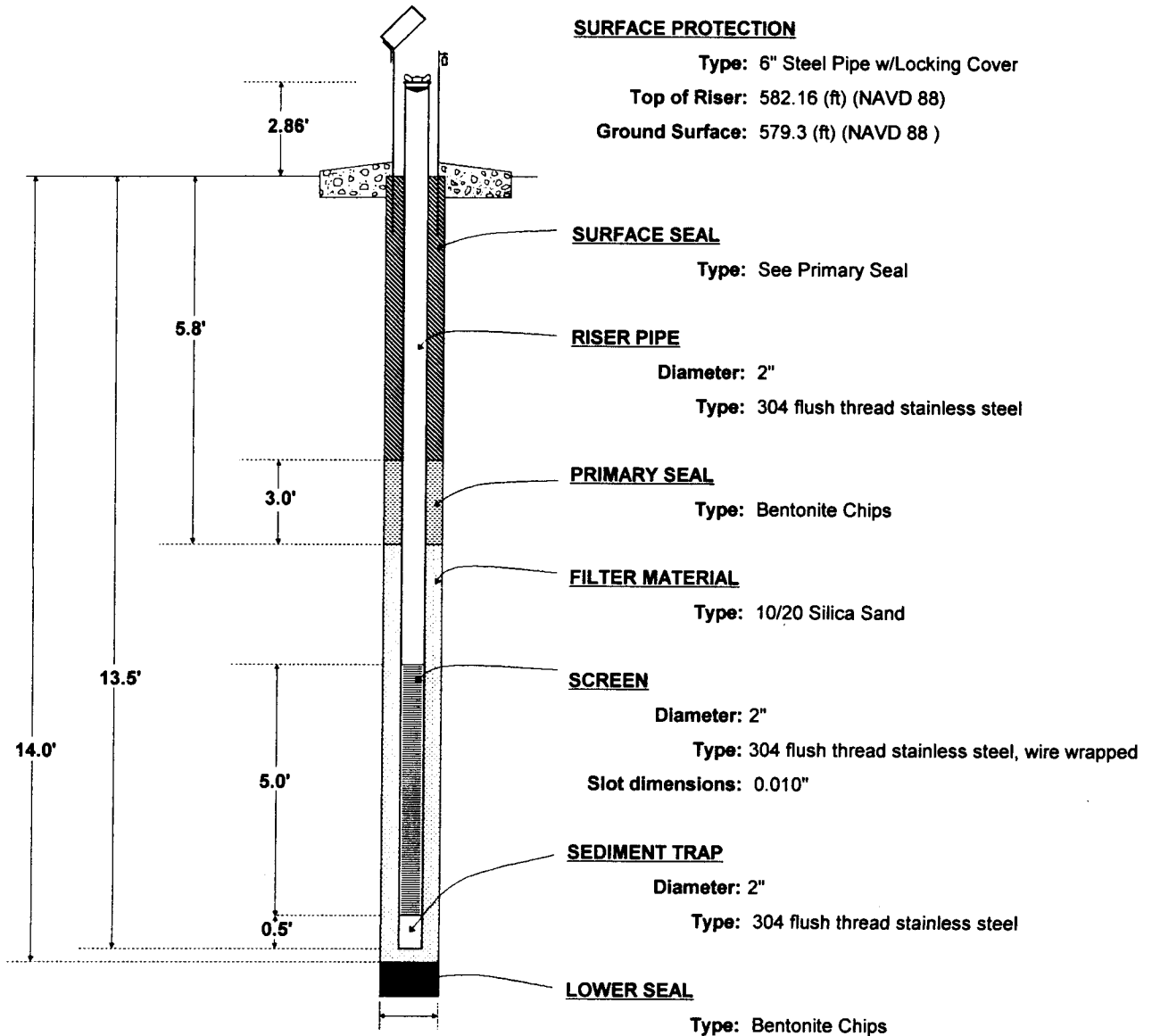
**NOTES:** Developed by pumping 142 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-387S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6665.8' E 4148.2'	TOP OF RISER ELEVATION (DATUM) 582.16 ft (NAVD 88)	DATE 06/01/07
STRATUM MONITORED Boulders, Organic Soil, Lean Clay			
INSPECTOR  Duncan	CHECKED BY Meyer 	APPROVED BY Meyer 	

**BORING DIAMETER**

DIAMETER: 6"

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 16.2'-14.0'; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal & hydrated; installed protective cover w/concrete pad at surface.

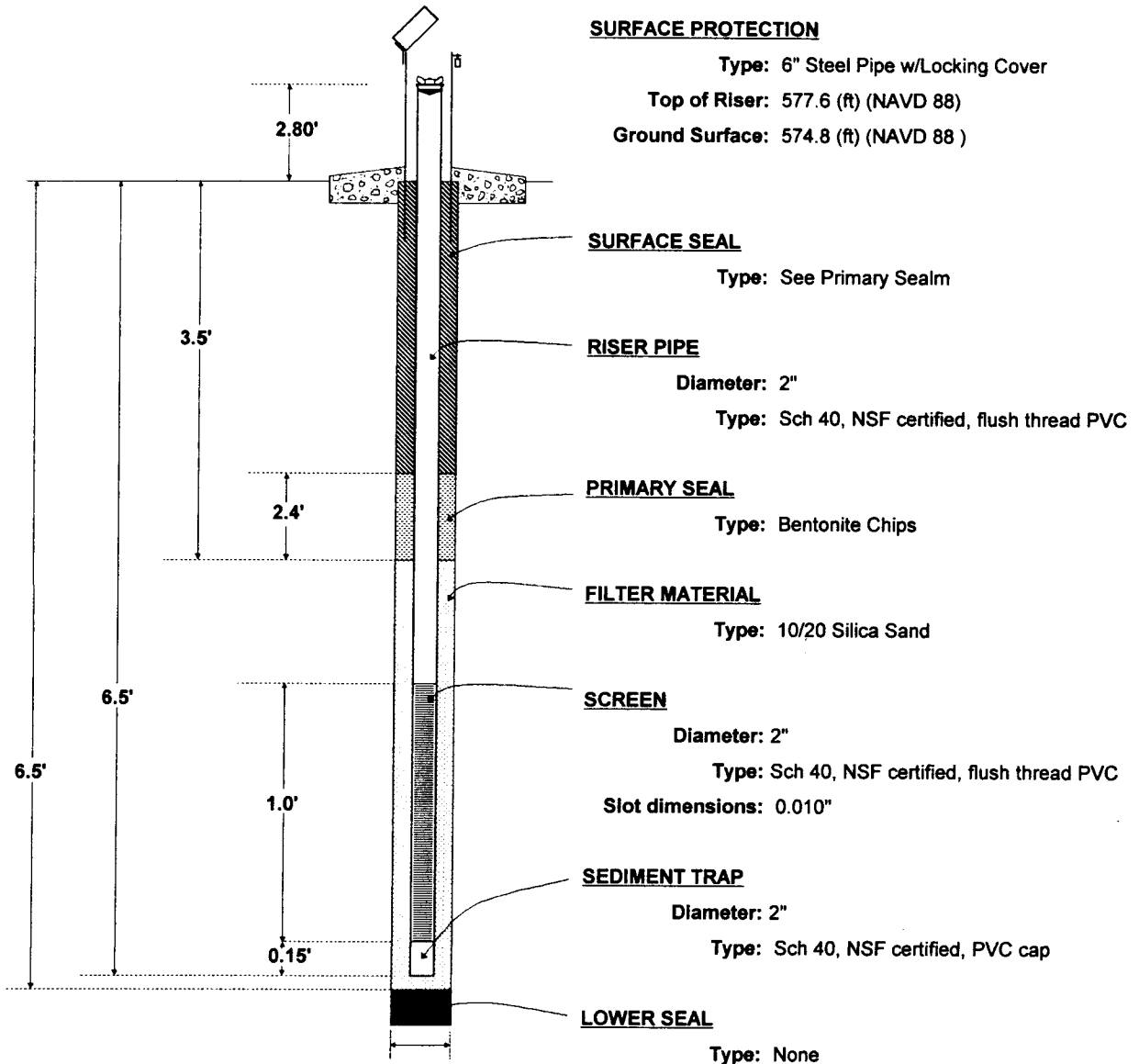
**NOTES:** Developed by pumping 44 gallons of water over multiple days.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-388S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8082.4' E 2168.8'	TOP OF RISER ELEVATION (DATUM) 577.6 ft (NAVD 88)	DATE 05/30/07
STRATUM MONITORED Fat Clay			
INSPECTOR Ohlmacher <i>GO</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**BORING DIAMETER****DIAMETER: 8"**

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser; placed filter; not surged (no water); placed bentonite seal; installed protective cover w/concrete pad at surface.

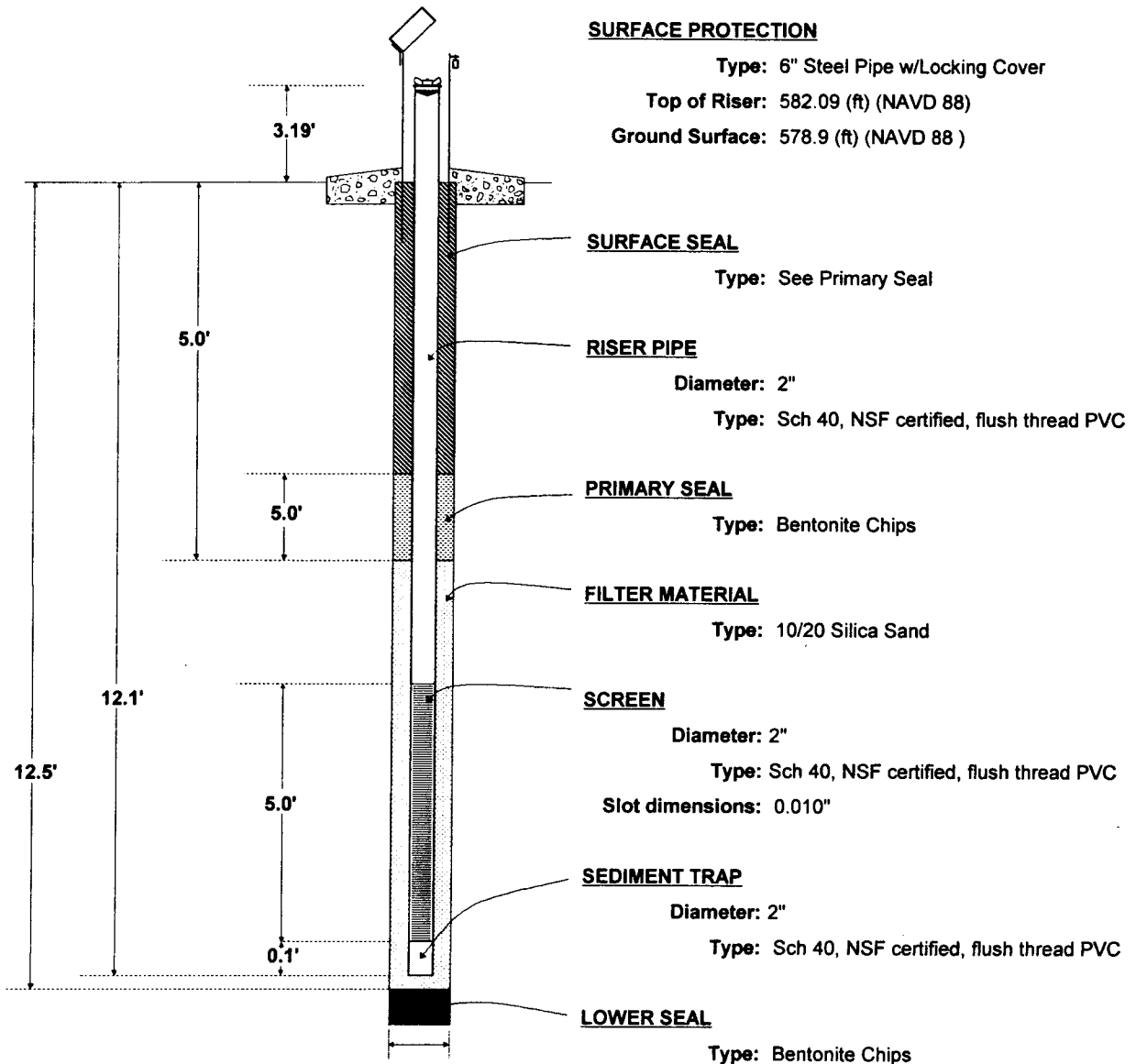
**NOTES:** Bottom cap attached w/stainless steel screws. Dry at time of installation - not developed.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-390S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 7960.1' E 4245.7'	TOP OF RISER ELEVATION (DATUM) 582.09 ft (NAVD 88)	DATE 06/01/07
STRATUM MONITORED Gravelly Cobbles, Fat Clay, Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	



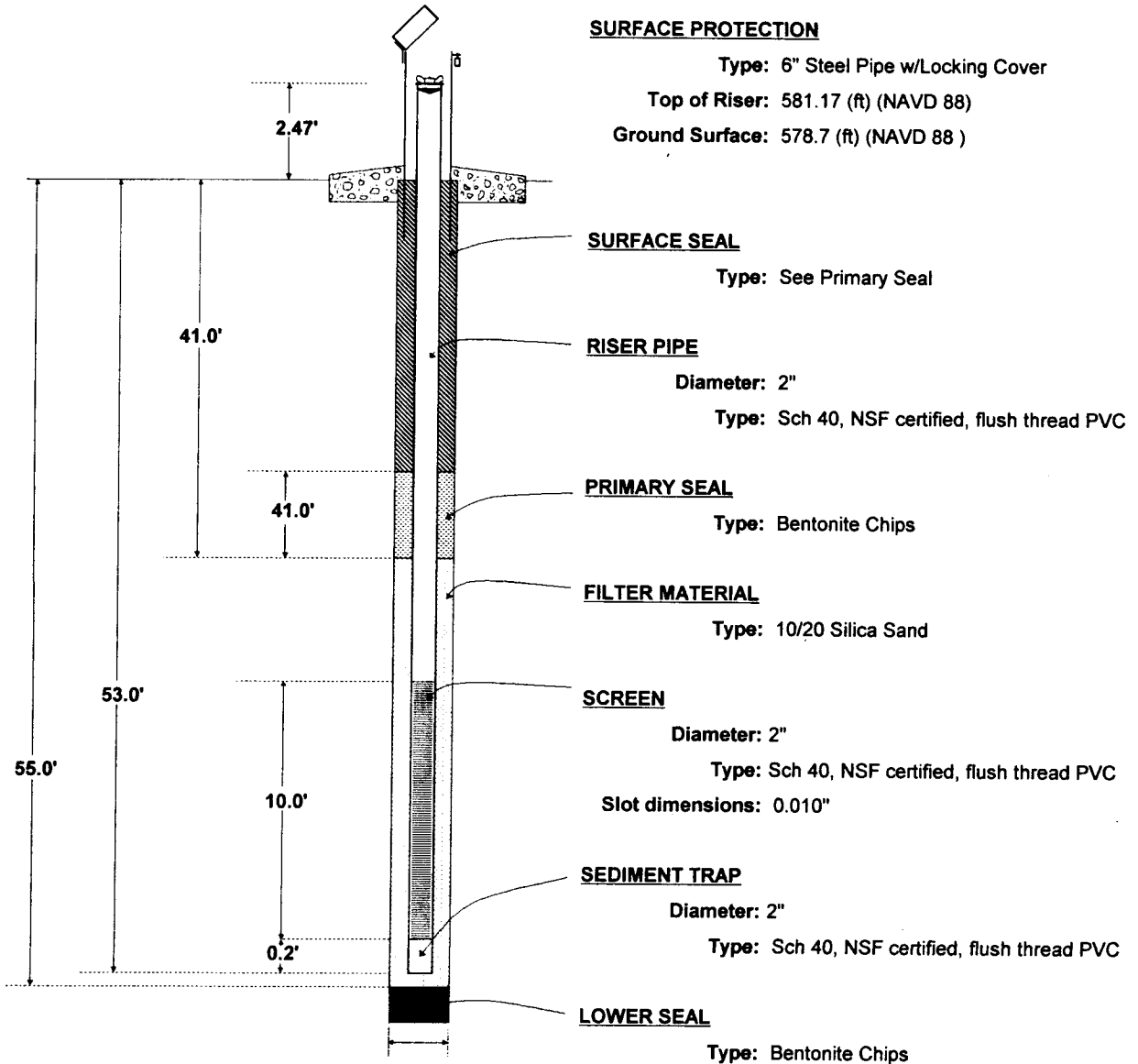
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 16.5'-12.5'; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 130 gallons of water.

**BLACK & VEATCH****MONITORING WELL****MONITORING WELL NO. MW-391D****SHEET 1 OF 1**

<b>CLIENT</b> Detroit Edison		<b>PROJECT</b> Fermi 3 COL Application		<b>PROJECT NO.</b> 147483
<b>PROJECT LOCATION</b> Monroe, MI	<b>COORDINATES</b> N 8240.3' E 5237.2'		<b>TOP OF RISER ELEVATION (DATUM)</b> 581.17 ft (NAVD 88)	<b>DATE</b> 06/02/07
<b>STRATUM MONITORED</b> Bass Islands Group Dolomite & Shale				
<b>INSPECTOR</b> Geo Ohlmacher / <i>[Signature]</i> Duncan		<b>CHECKED BY</b> Meyer <i>[Signature]</i>		<b>APPROVED BY</b> Meyer <i>[Signature]</i>

**BORING DIAMETER**

DIAMETER: 6": 0-30', 4.8": 30'-55'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-55.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

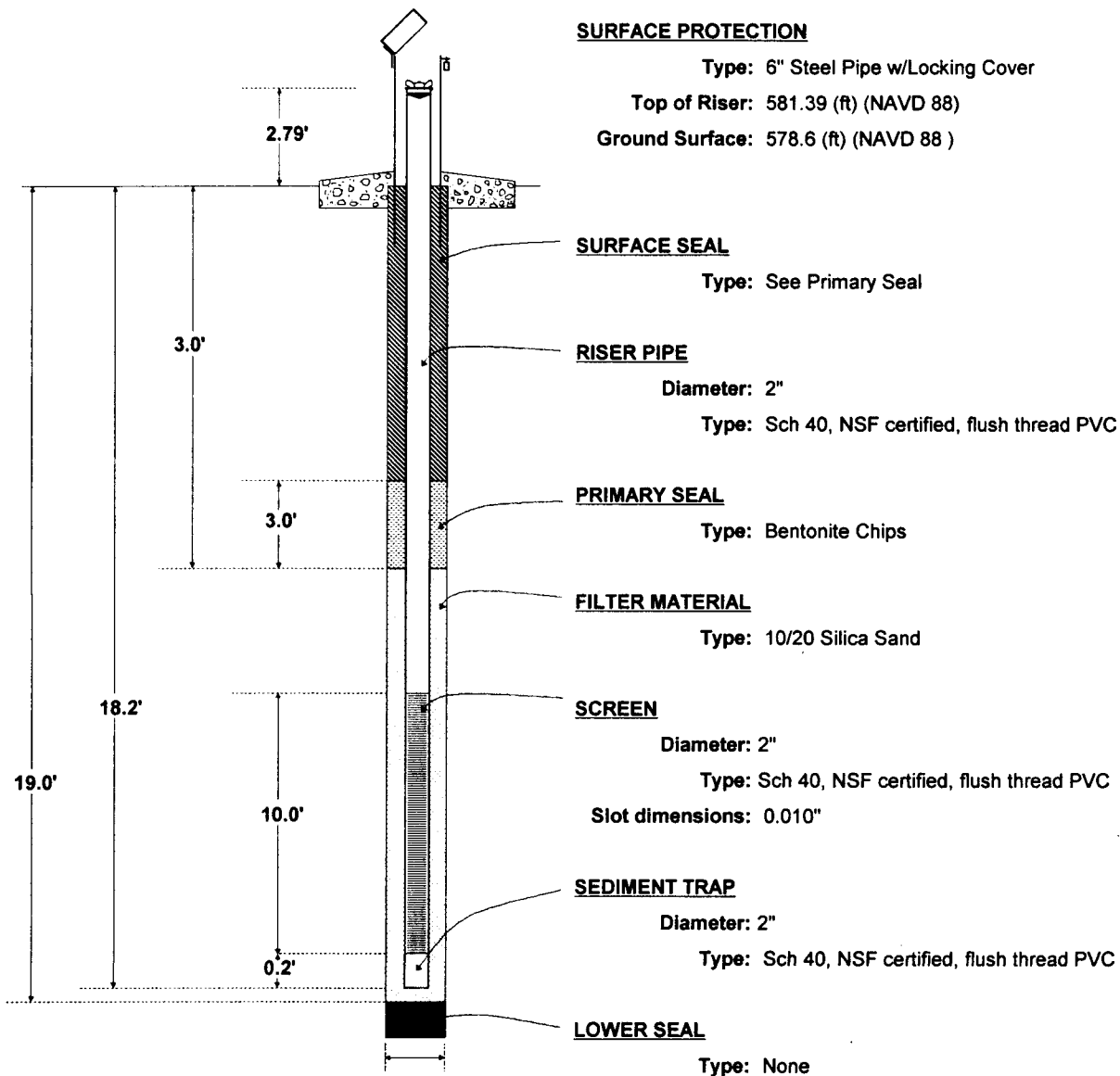
**NOTES:** Developed by pumping 141 gallons of water. Pumped on two separate days.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-391S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8242.9' E 5232.9'	TOP OF RISER ELEVATION (DATUM) 581.39 ft (NAVD 88)	DATE 05/30/07
STRATUM MONITORED Boulders, Sandy Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	

**BORING DIAMETER****DIAMETER: 6"**

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 105 gallons of water.

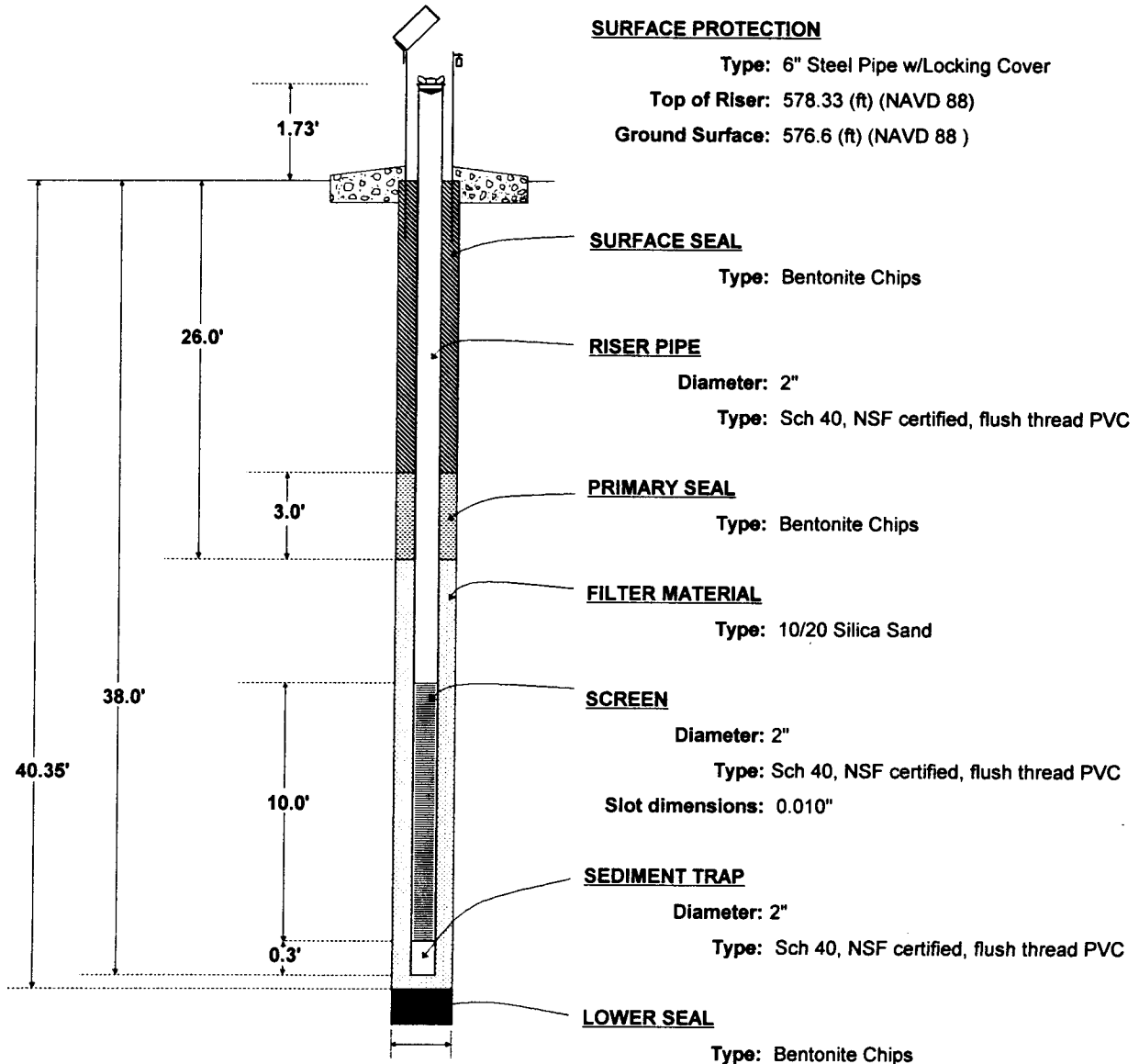


**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-393D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 9367.4' E 2922.8'	TOP OF RISER ELEVATION (DATUM) 578.33 ft (NAVD 88)	DATE 06/06/07
STRATUM MONITORED Bass Islands Group Dolomite			
INSPECTOR Grainger <i>Em for</i>	CHECKED BY Meyer <i>Em</i>	APPROVED BY Meyer <i>Em</i>	



**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 150.0'-40.35'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

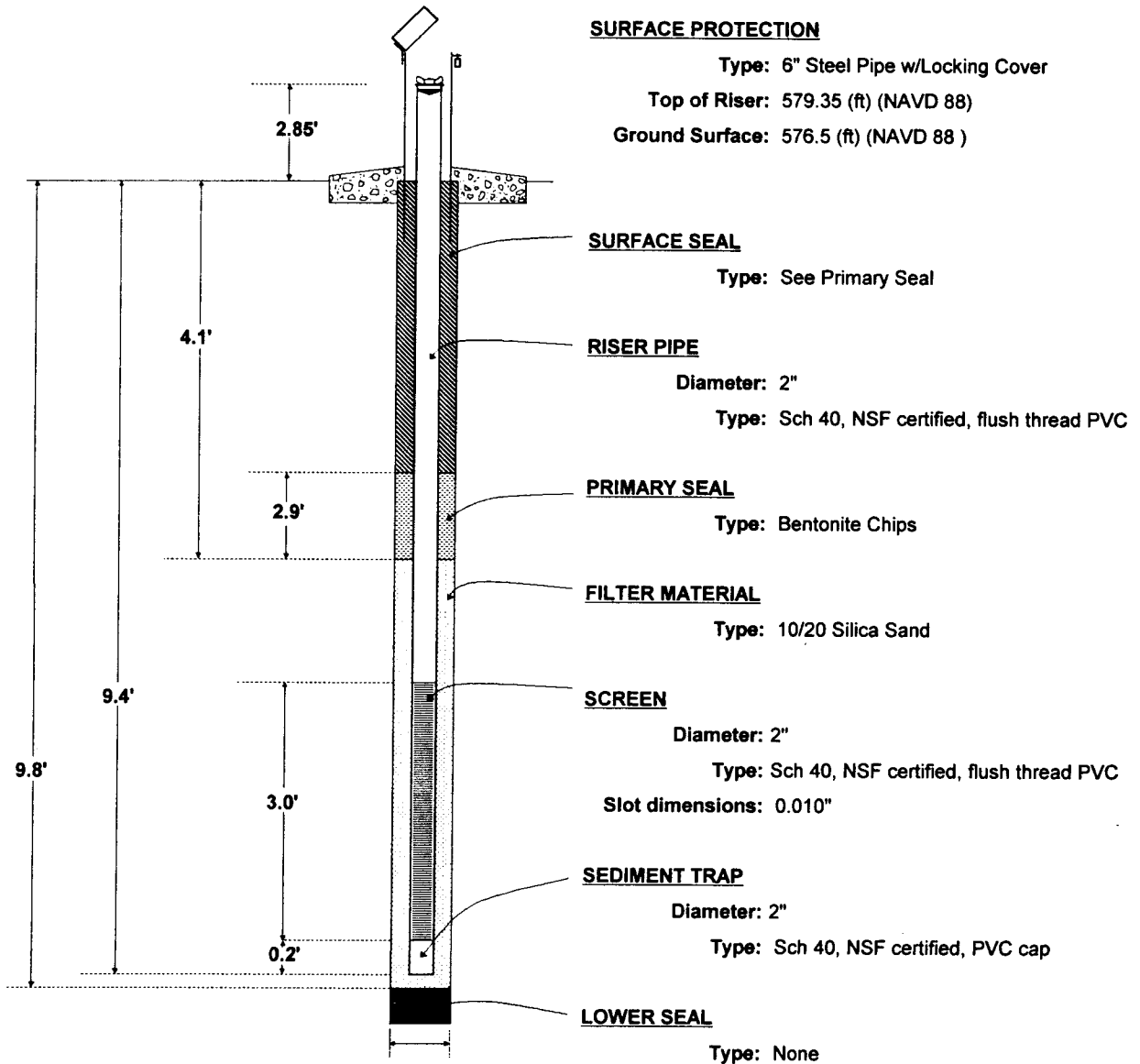
**NOTES:** Developed by pumping 695 gallons of water. Pumped on three separate days.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-393S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 9360.0' E 2918.2'	TOP OF RISER ELEVATION (DATUM) 579.35 ft (NAVD 88)	DATE 05/06/07
STRATUM MONITORED Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	

**BORING DIAMETER****DIAMETER: 8"**

\*Note-Diagram not shown to scale

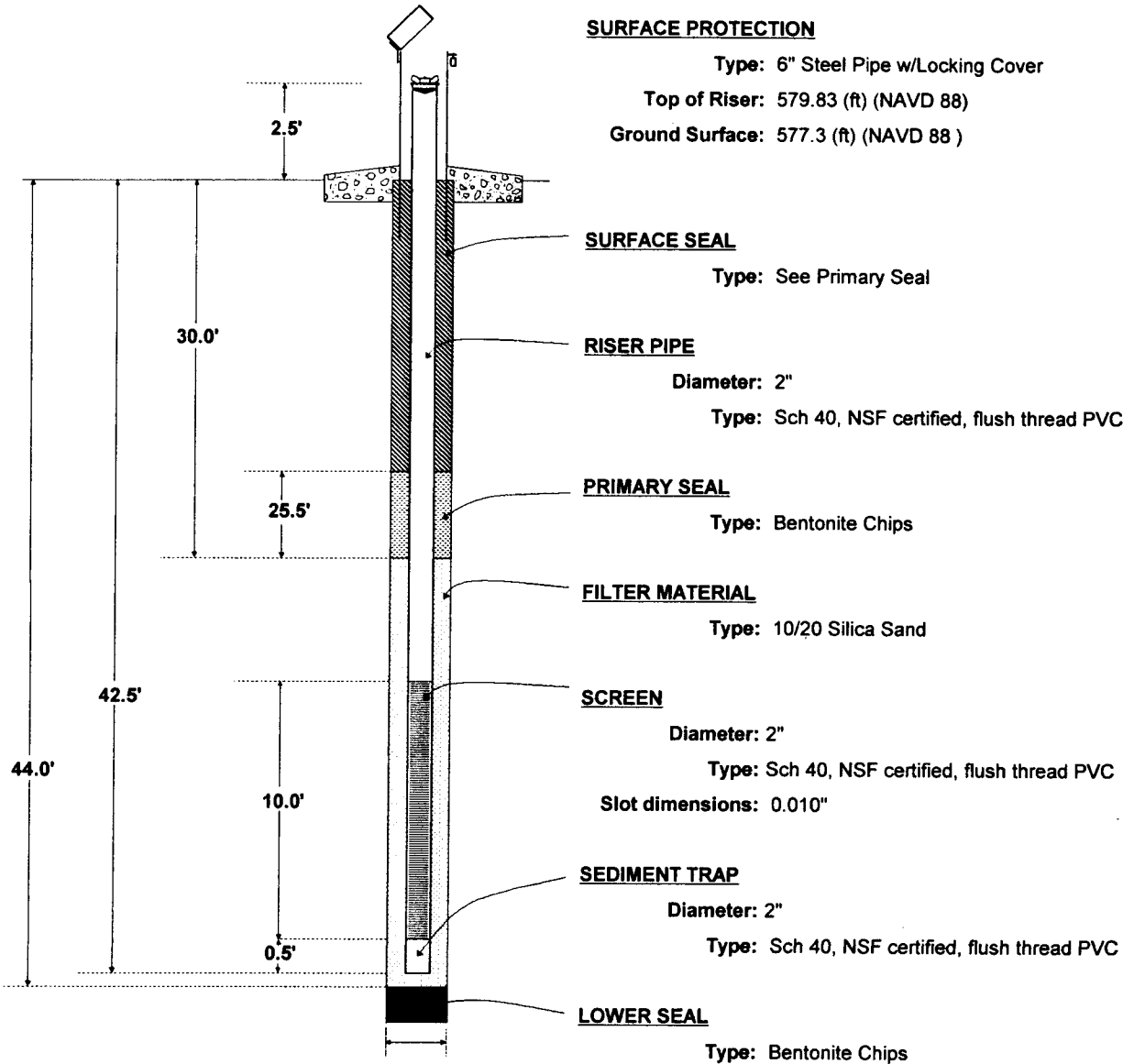
**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.**NOTES:** Bottom cap attached w/stainless steel screws. Developed by pumping 12 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-395D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8900.0' E 4600.1'	TOP OF RISER ELEVATION (DATUM) 579.83 ft (NAVD 88)	DATE 06/01/07
STRATUM MONITORED Bass Islands Group Dolomite			
INSPECTOR Ohlmacher <i>GO</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**BORING DIAMETER**

DIAMETER: 8": 0-20.5', 4.8": 20.5-44'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-44.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

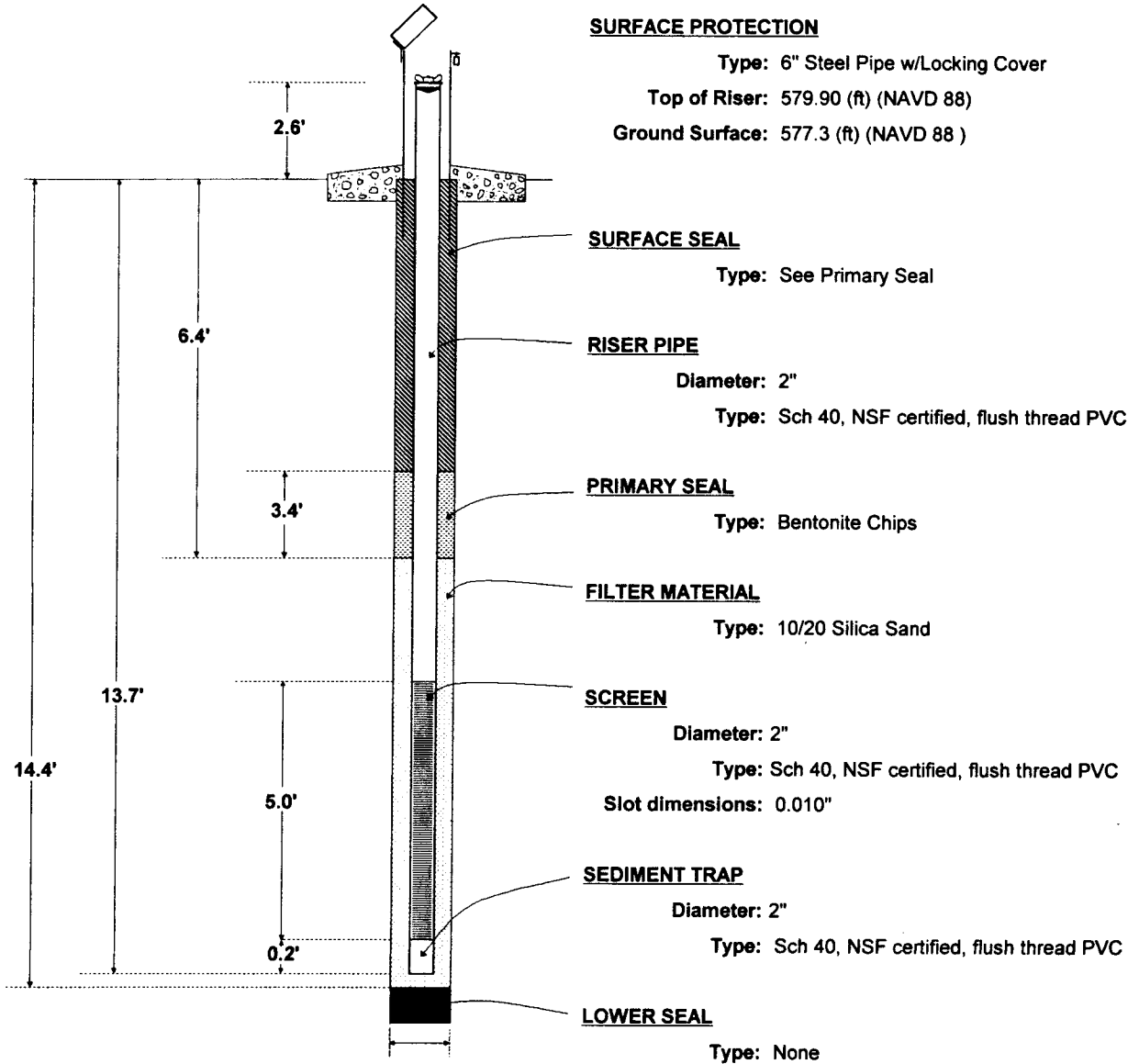
**NOTES:** Developed by pumping 220 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-395S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8906.2' E 4599.7'	TOP OF RISER ELEVATION (DATUM) 579.90 ft (NAVD 88)	DATE 05/30/07
STRATUM MONITORED Gravelly Cobbles, Fat Clay, Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer	

**BORING DIAMETER****DIAMETER: 6"**

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

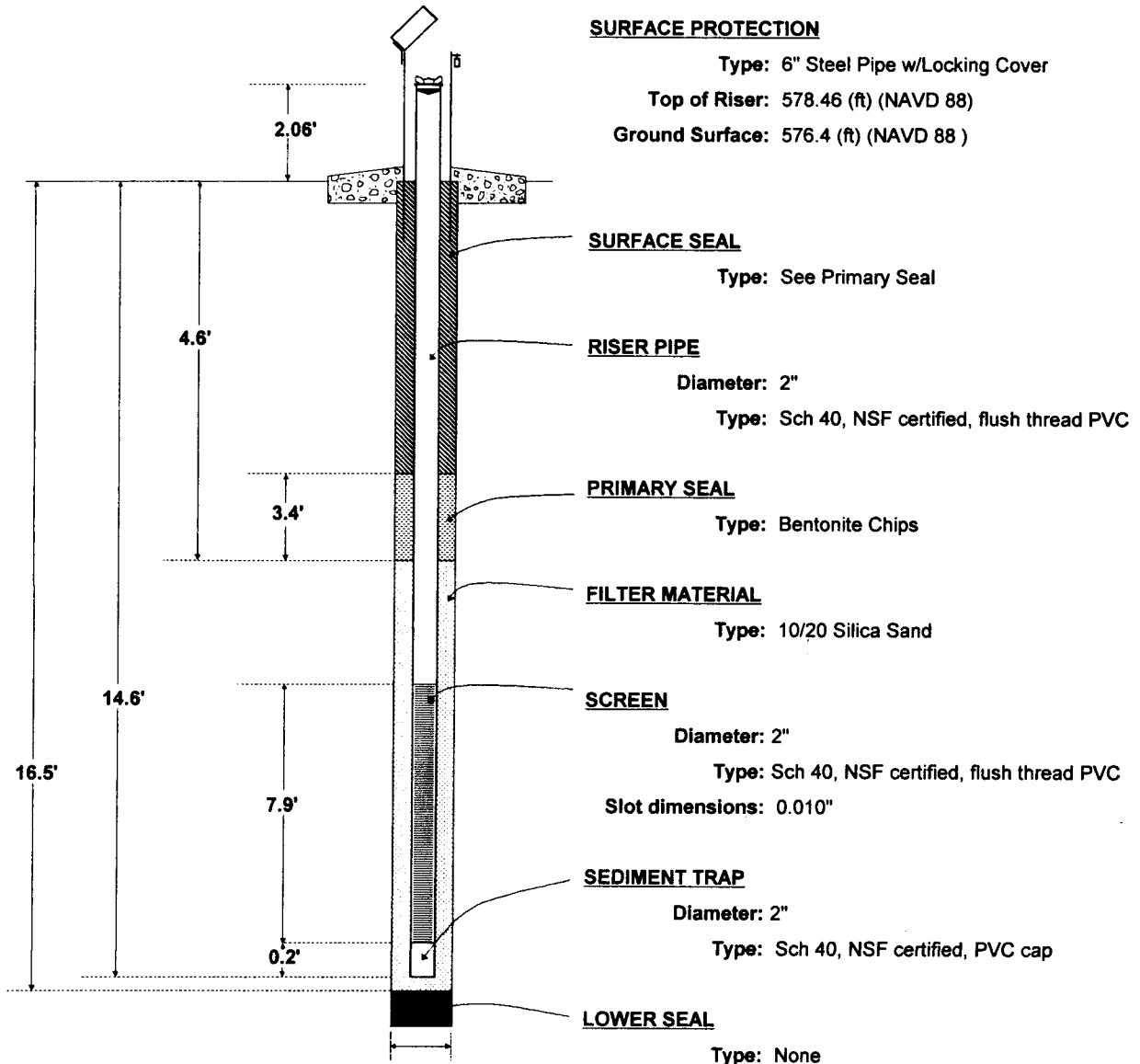
**NOTES:** Developed by pumping 255 gallons of water. Pumped on two separate days.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-382S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5730.3' E 3132.4'	TOP OF RISER ELEVATION (DATUM) 578.46 ft (NAVD 88)	DATE 05/07/07
STRATUM MONITORED Sandy Lean Clay, Organic Soil, Fat Clay, Sandy Silt			
INSPECTOR Ohlmacher <i>GO</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**BORING DIAMETER****DIAMETER: 8"**

\*Note-Diagram not shown to scale

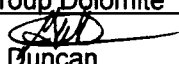


**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

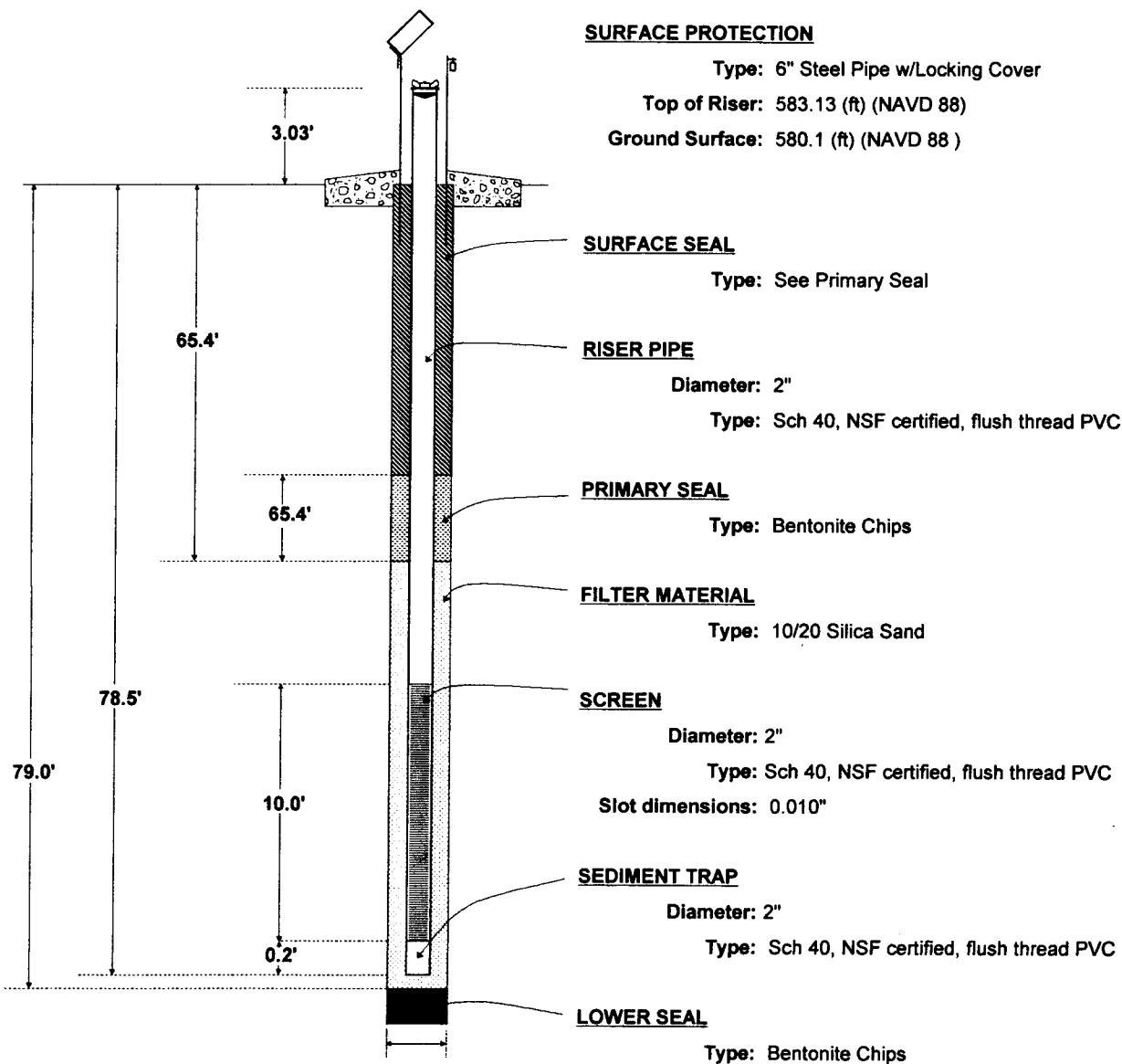
**NOTES:** Bottom cap attached w/stainless steel screws. Developed by pumping 67 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-385D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6201.7' E 4390.0'	TOP OF RISER ELEVATION (DATUM) 583.13 ft (NAVD 88)	DATE 05/31/07
STRATUM MONITORED Bass Islands Group Dolomite			
INSPECTOR  Duncan	CHECKED BY Meyer 	APPROVED BY Meyer 	



**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 102.5'-79.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 120 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

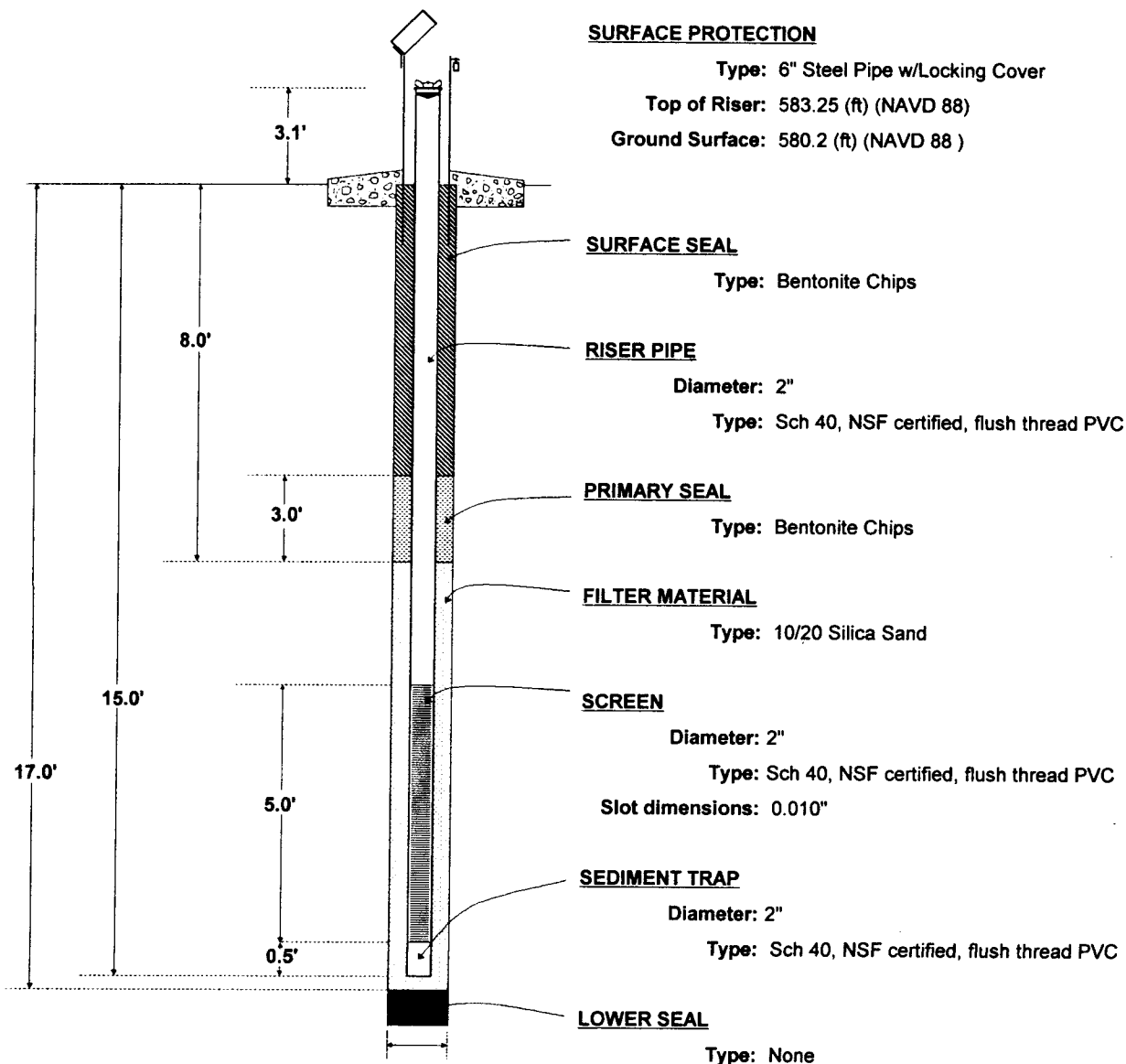
PIEZOMETER NO. P-385S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6198.1' E 4385.6'	TOP OF RISER ELEVATION (DATUM) 583.25 ft (NAVD 88)	DATE 06/04/07

**STRATUM MONITORED**

Well Graded Gravel, Lean Clay

**INSPECTOR**Deeken *JD***CHECKED BY**Meyer *EM***APPROVED BY**Meyer *EM***BORING DIAMETER**

DIAMETER: 8"

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

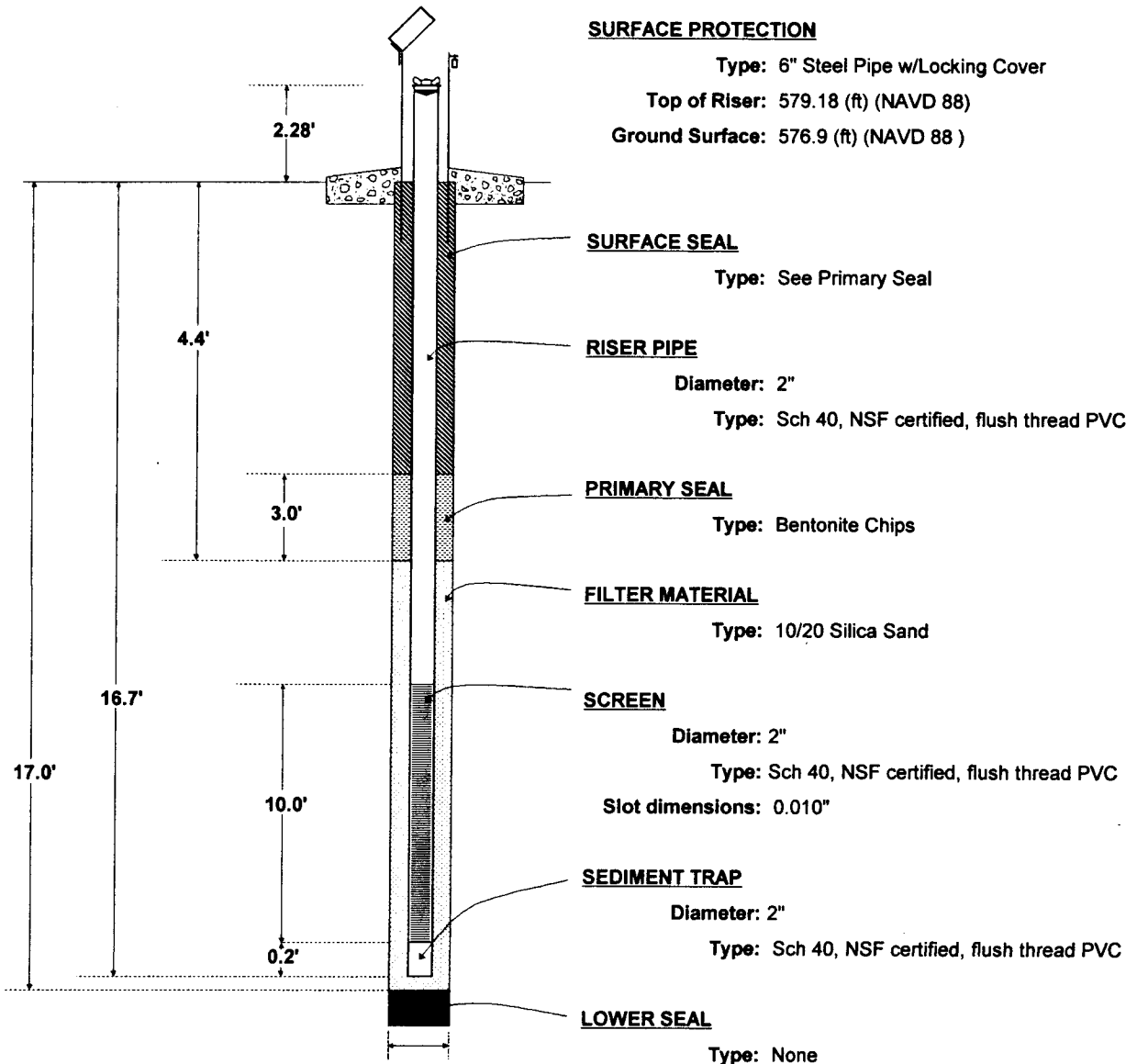
**NOTES:** Developed by pumping 135 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-389S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 7821.4' E 3889.3'	TOP OF RISER ELEVATION (DATUM) 579.18 ft (NAVD 88)	DATE 05/15/07
STRATUM MONITORED Sandy Silt, Lean Clay, Sandy Lean Clay			
INSPECTOR Duncan	CHECKED BY Meyer	APPROVED BY Meyer	



\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 104 gallons of water over a multiple day period - pumped dry multiple times.

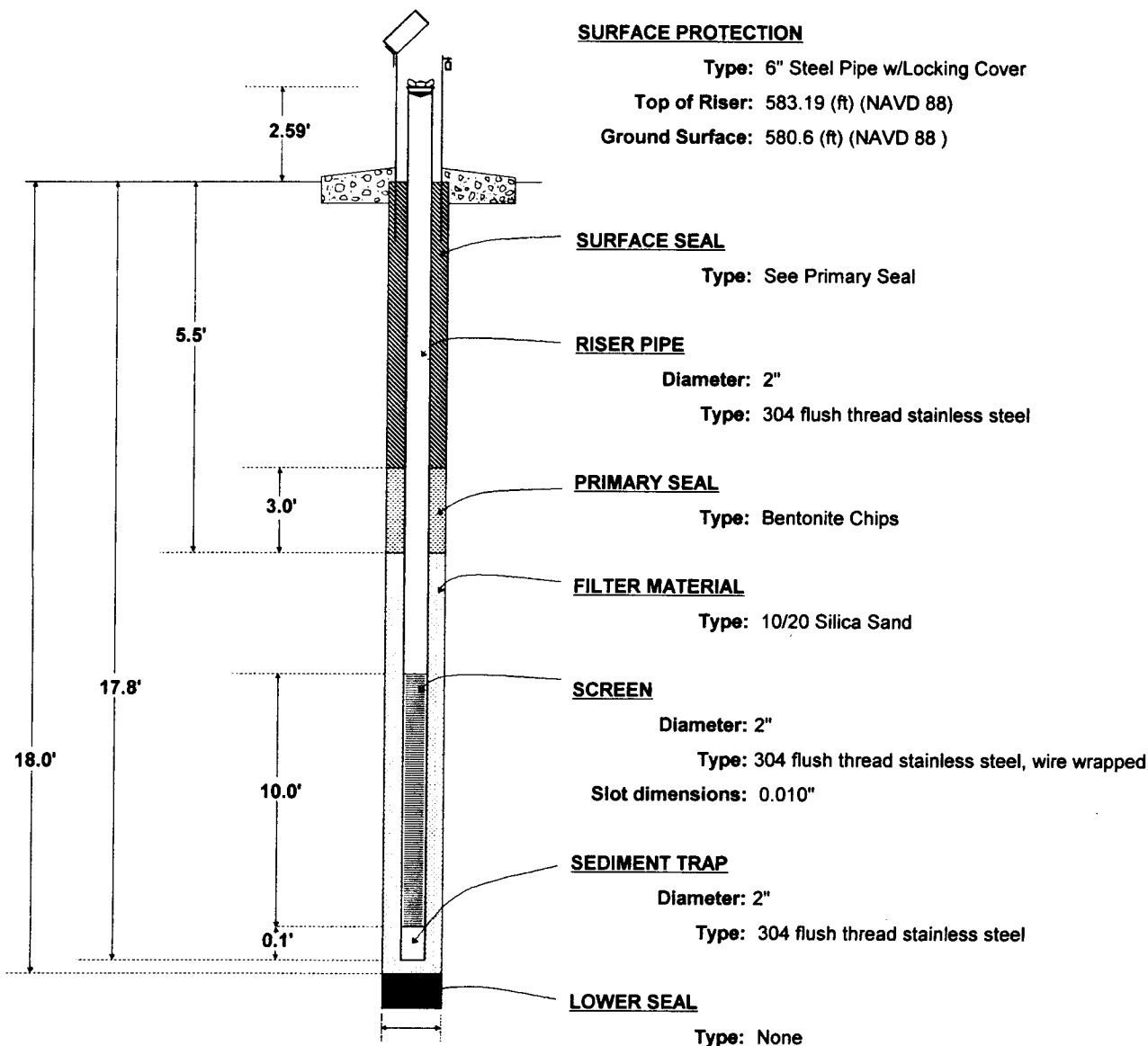


**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-392S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8088.7' E 5841.5'	TOP OF RISER ELEVATION (DATUM) 583.19 ft (NAVD 88)	DATE 05/29/07
STRATUM MONITORED Rock Fill, Poorly Graded Gravel & Sand, Fat Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	



**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; water present; not surged; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

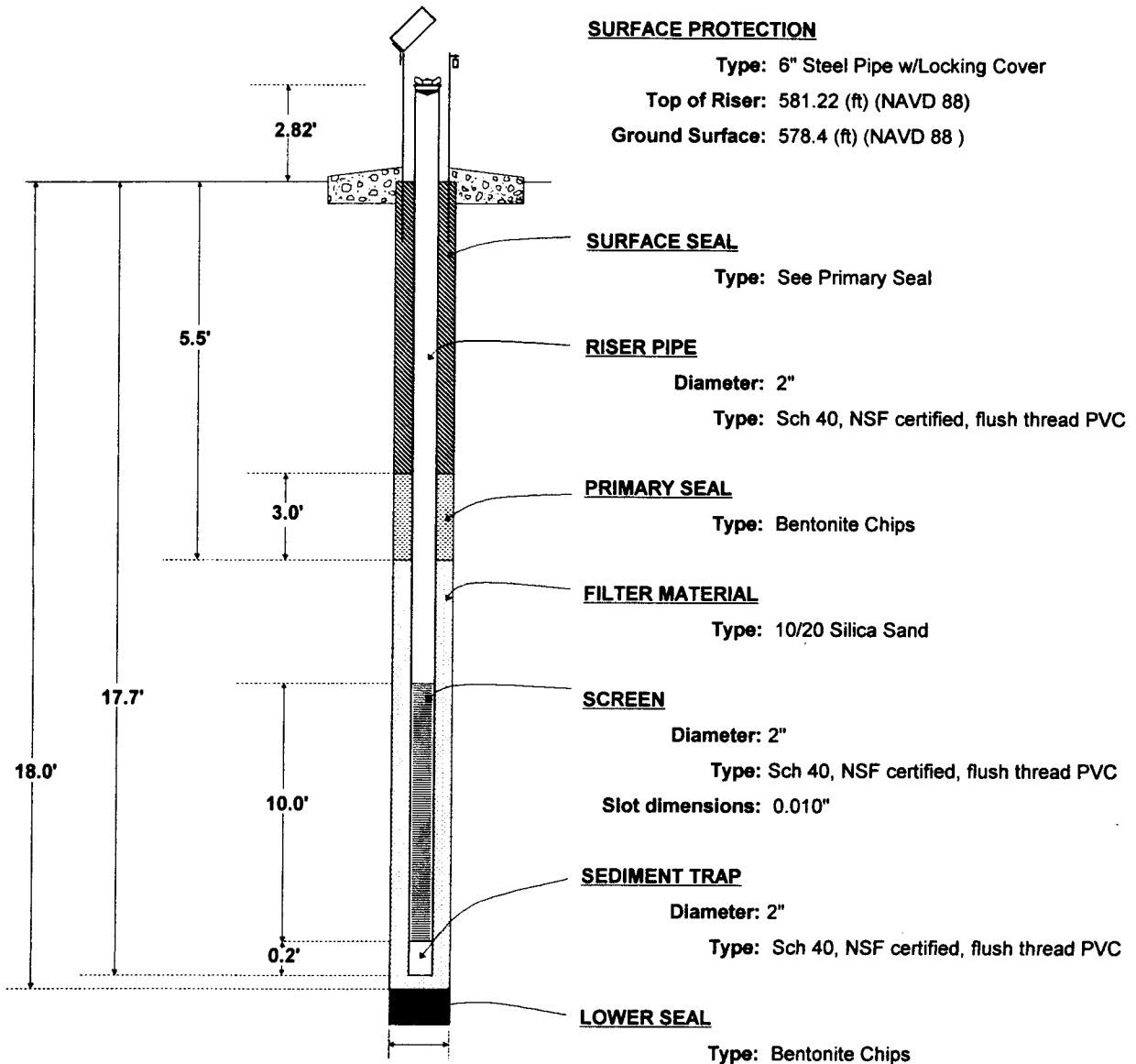
**NOTES:** Developed by pumping 57 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-396S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8949.8' E 5248.8'	TOP OF RISER ELEVATION (DATUM) 581.22 ft (NAVD 88)	DATE 05/24/07
STRATUM MONITORED Rock Fill, Fat Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	



**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 19.5'-18.0'; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

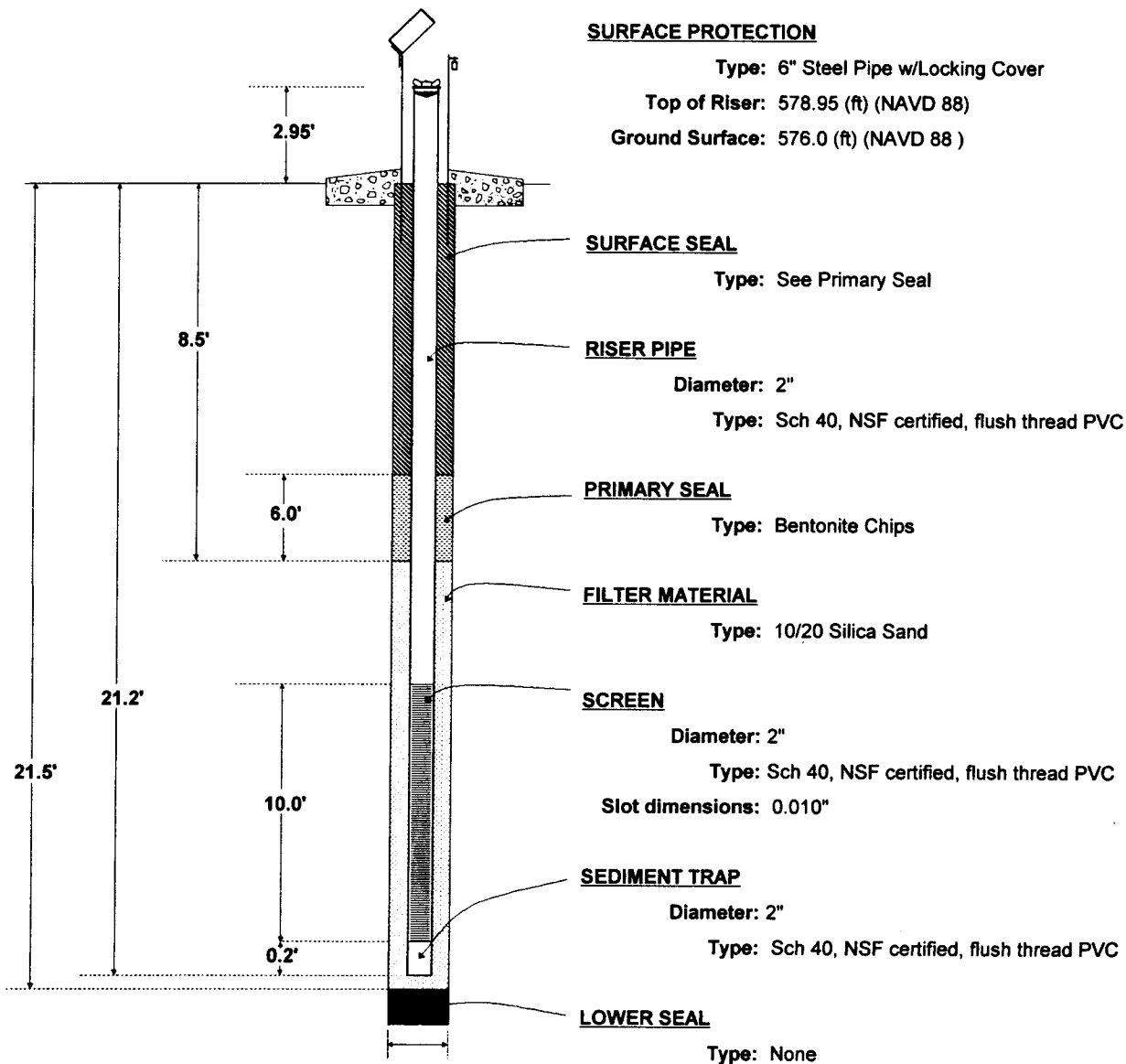
**NOTES:** Developed by pumping 55 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-397S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8901.4' E 5748.5'	TOP OF RISER ELEVATION (DATUM) 578.95 ft (NAVD 88)	DATE 05/23/07
STRATUM MONITORED Fat Clay, Organic Soil, Lean Clay, Sandy Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	

**BORING DIAMETER****DIAMETER: 8"**

\*Note-Diagram not shown to scale

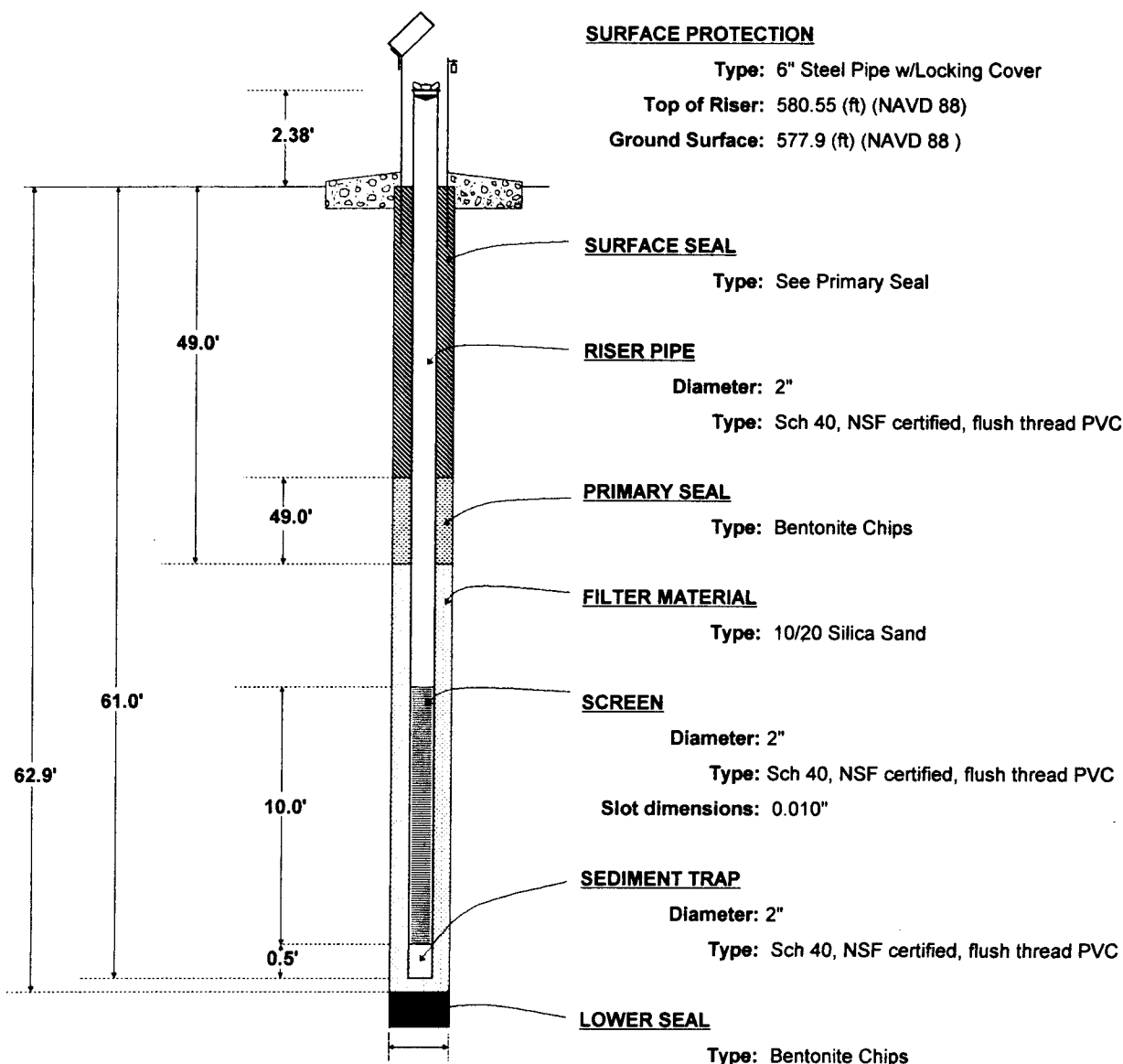
**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.**NOTES:** Developed by pumping 89 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-398D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 9510.6' E 5352.1'	TOP OF RISER ELEVATION (DATUM) 580.55 ft (NAVD 88)	DATE 06/02/07
STRATUM MONITORED Salina Group - Unit F: Shale, Dolomite			
INSPECTOR GEO. OHLMACHER/DUNCAN	CHECKED BY Meyer	APPROVED BY Meyer	

**BORING DIAMETER**

DIAMETER: 6": 0-29.5', 4.8": 29.5'-61'

\*Note-Diagram not shown to scale




**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-62.9'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

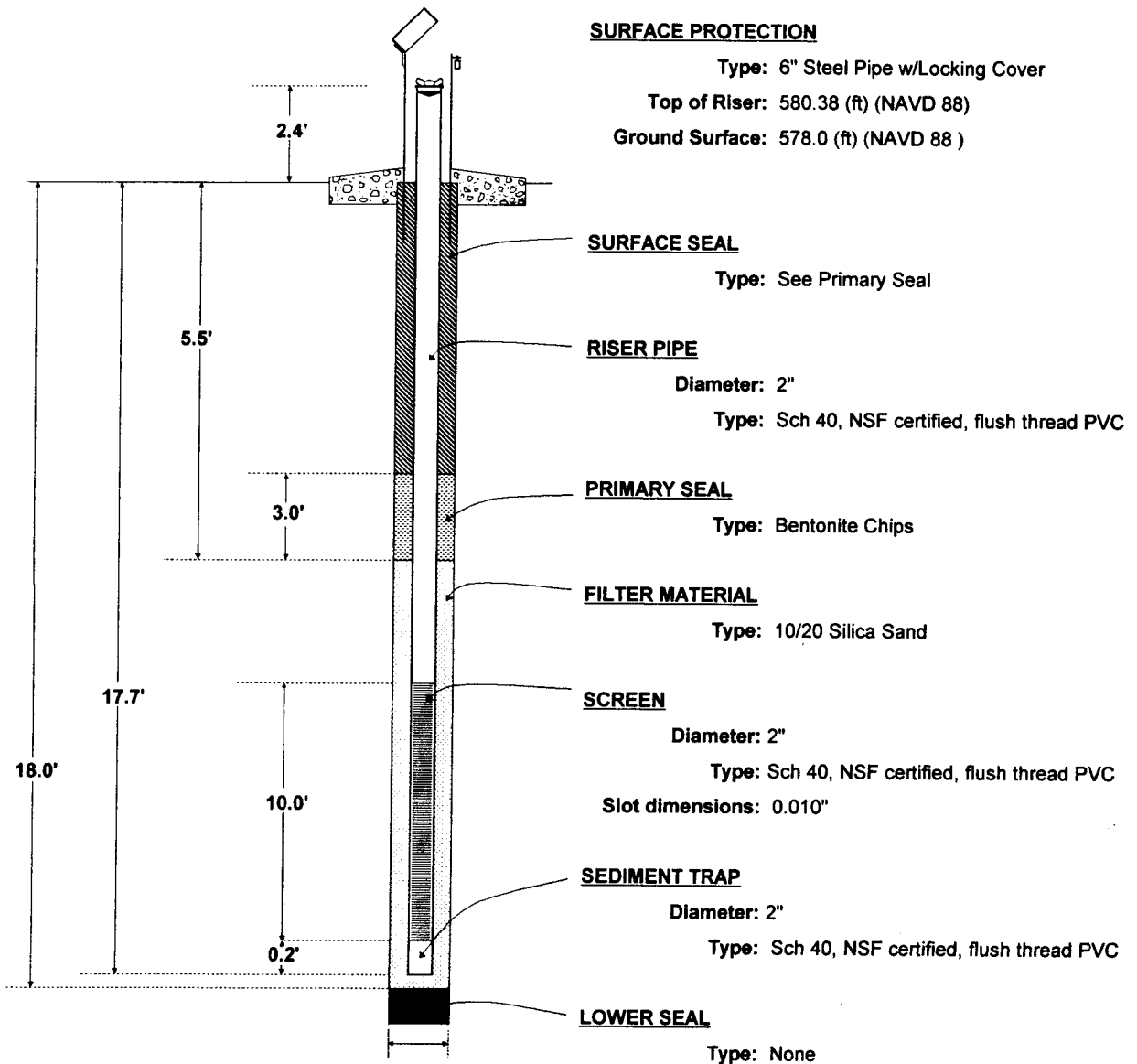
**NOTES:** Developed by pumping 100 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-398S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 9504.3' E 5350.4'	TOP OF RISER ELEVATION (DATUM) 580.38 ft (NAVD 88)		DATE 05/23/07
STRATUM MONITORED Lean Clay, Organic Soil				
INSPECTOR  Duncan		CHECKED BY Meyer 	APPROVED BY Meyer 	



\*Note-Diagram not shown to scale

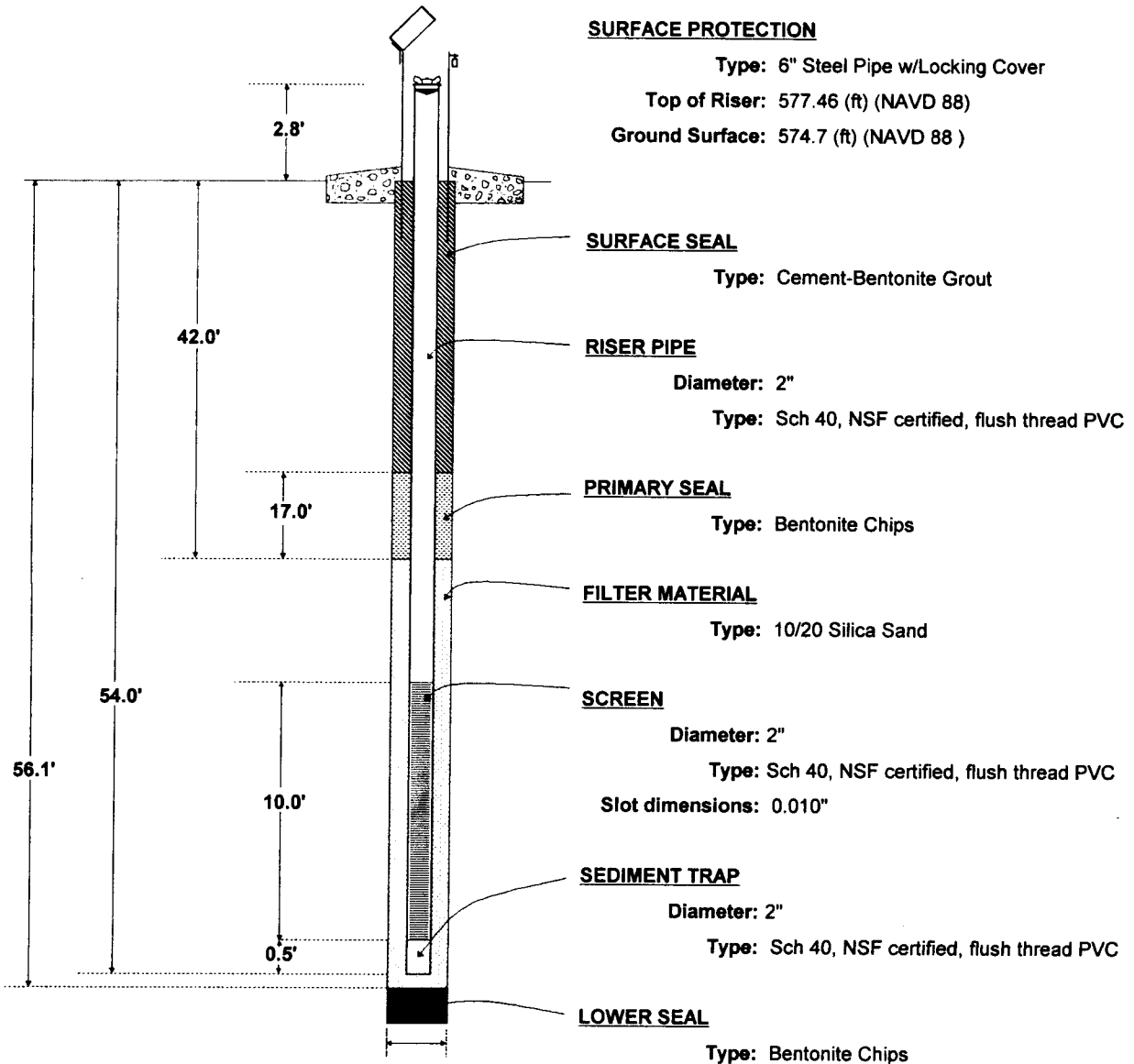
**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.**NOTES:** Developed by pumping 89 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-399D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 2565.59' E 5228.73'		TOP OF RISER ELEVATION (DATUM) 577.46 ft (NAVD 88)	DATE 05/30/07
STRATUM MONITORED Bass Isl Gr Dolomite; Salina Gr - Unit F Shale & Dolomite				
INSPECTOR Ohlmacher <i>610</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**BORING DIAMETER**

DIAMETER: 8": 0-26.8'; 4.8": 26.8'-56.1'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 102.0'-56.1'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; placed grout seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 172 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**PIEZOMETER NO. CB-C5  
SHEET 1 OF 1

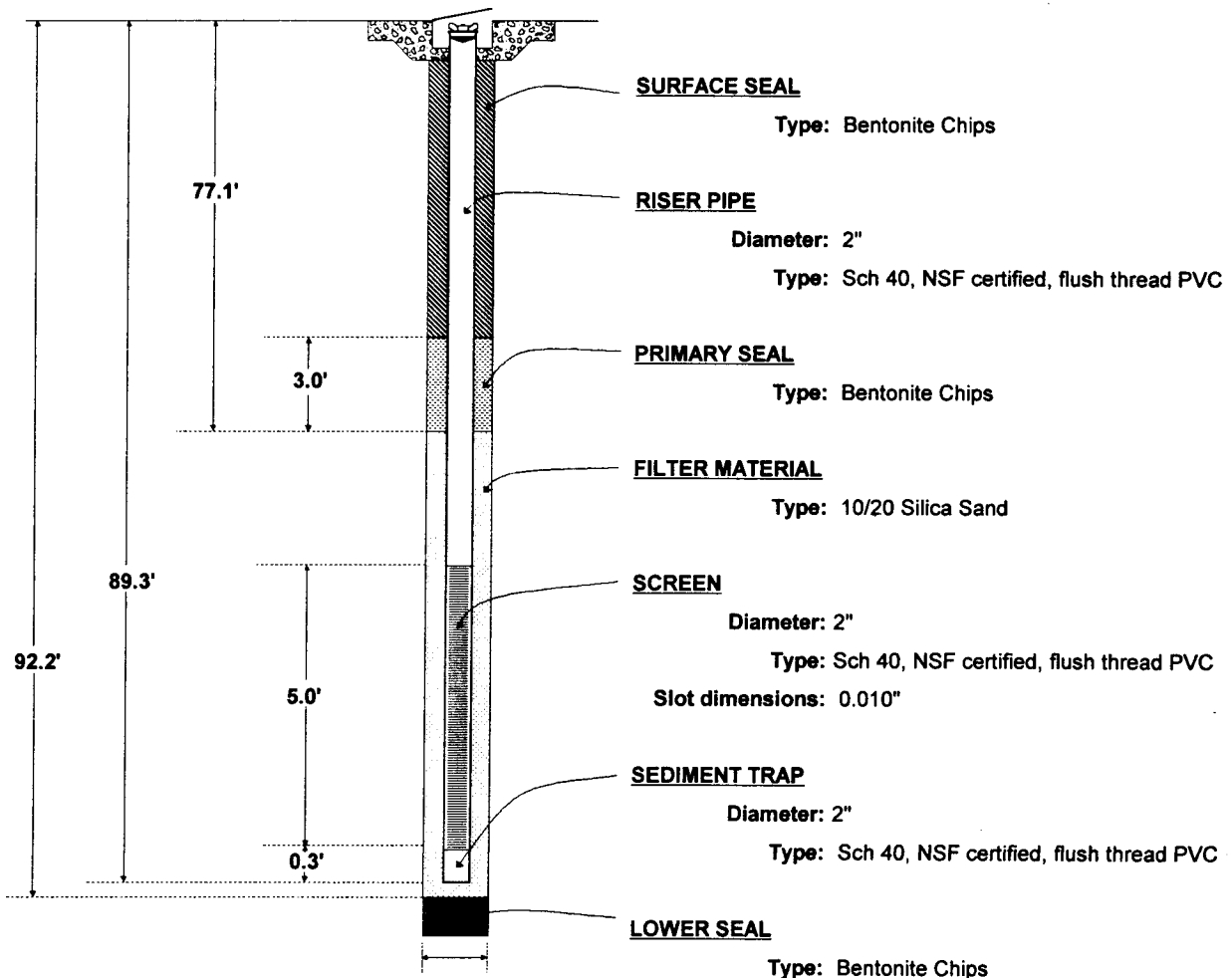
CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6123.0' E 4663.4'	TOP OF RISER ELEVATION (DATUM) 580.77 ft (NAVD 88)	DATE 08/24/07
STRATUM MONITORED Bass Islands Group Dolomite & Shale			
INSPECTOR Grainger <i>EM for</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**SURFACE PROTECTION**

Type: Flush Mount

Top of Riser: 580.77 (ft) (NAVD 88)

Ground Surface: 581.0 (ft) (NAVD 88)

**BORING DIAMETER**

DIAMETER: 6": 0-30.7', 4.8": 30.7'-92.2'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 131.0'-92.2'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:**

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. EB/TSC-C2

SHEET 1 OF 1

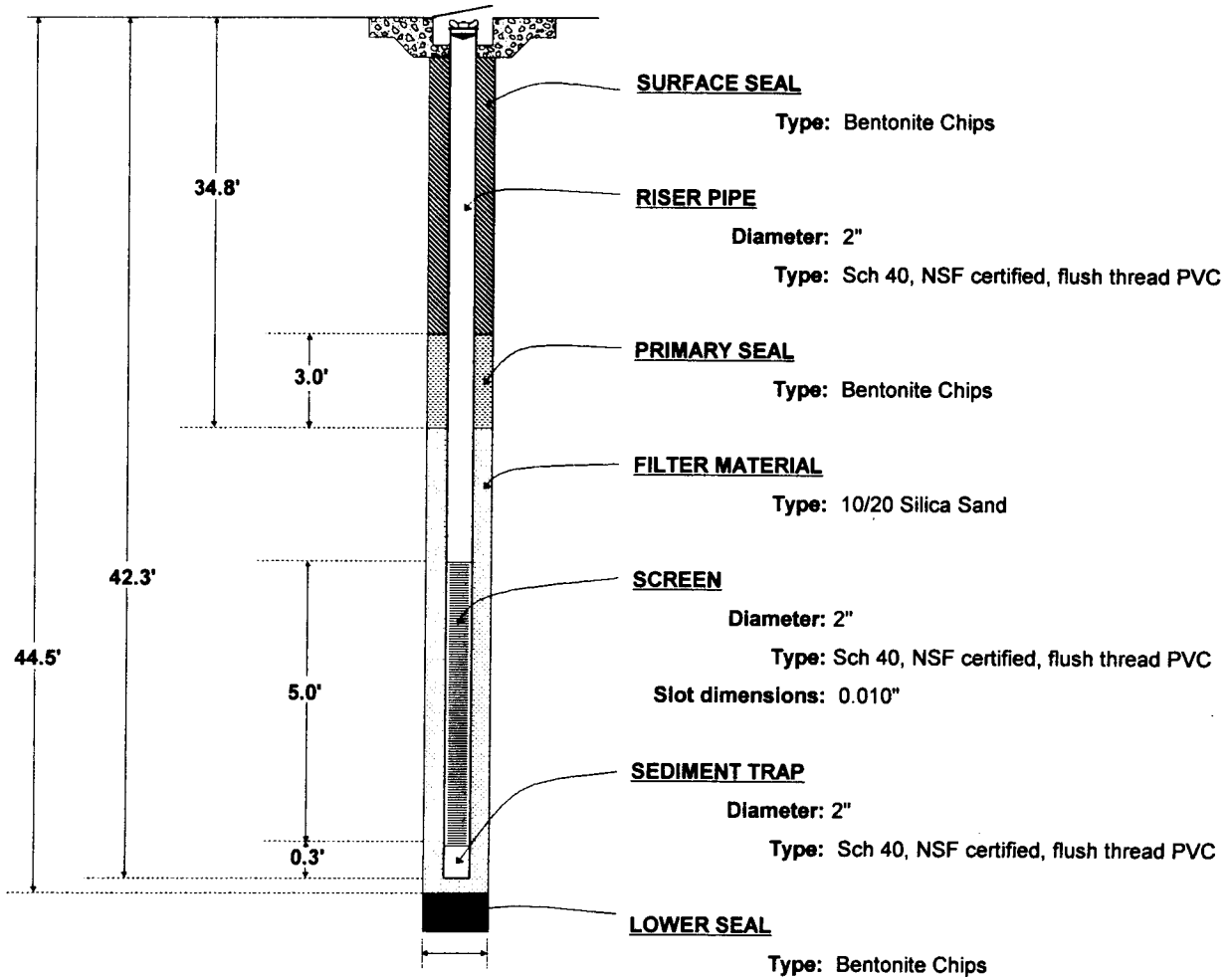
CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6579.3' E 4697.2'	TOP OF RISER ELEVATION (DATUM) 581.12 ft (NAVD 88)	DATE 09/11/07
STRATUM MONITORED Bass Islands Group Dolomite			
INSPECTOR Grainger <i>SM for</i>	CHECKED BY Meyer <i>SM</i>	APPROVED BY Meyer <i>SM</i>	

**SURFACE PROTECTION**

Type: Flush Mount

Top of Riser: 581.12 (ft) (NAVD 88)

Ground Surface: 581.4 (ft) (NAVD 88)

**BORING DIAMETER**

DIAMETER: 6": 0-30.5', 4.8": 30.5'-44.5'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 50.5'-44.5'; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:**



**BLACK & VEATCH****TEST PIT LOG**

TEST-PIT NO. TP-1

SHEET 1 OF 1

CLIENT - PROJECT Detroit Edison - Fermi 3 COL Application			PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6200' E 4780'	GROUND ELEVATION (DATUM) 581.4 ft (88)	DATE 08/25/07

**SURFACE CONDITIONS**

Paved Parking Area

**EXCAVATION METHOD**

Backhoe

**INSPECTOR**

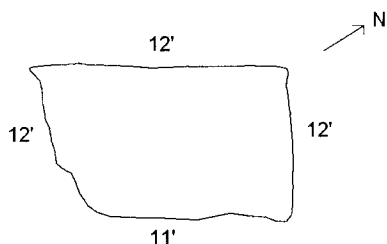
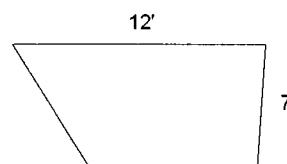
Grainger

**CHECKED BY**

Meyer

**APPROVED BY**

Meyer

**PLAN VIEW SKETCH, DIMENSIONS, AND NORTH ARROW****PROFILE VIEW SKETCH AND DIMENSIONS**

SAMPLE NUMBER & TYPE	DEPTH (FEET)	CLASSIFICATION AND DESCRIPTION OF MATERIAL (HORIZONTAL SCALE IN FEET)	
		0	12
	0	Asphalt	
	2	1. Well graded <u>GRAVEL</u> with Silt and Sand	
	4	2. Bouldery <u>COBBLES</u> with Sand	
	6		
	8	1. Well Graded <u>GRAVEL</u> with Silt and Sand (GW-GM); about 70% fine to coarse, angular, hard gravel, max size 3"; about 20% fine to coarse, angular, hard sand; about 10% fines-silt, light gray, moist, strong reaction w/ HCL, homogeneous (Fill)	
	10	2. Bouldery <u>COBBLES</u> with Sand; about 35% angular, tubular to cubical, cobbles max size 12"; about 25% angular, tubular to cubical, hard boulders, max size 26"; about 20% fine to coarse, angular, hard gravel, max size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines-silt (Fill)	

**REMARKS**

Backfilled with excavated material.