



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2175		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND		
GROUND SURFACE ELEV. 80.1 ft (NAVD88)		NORTHING 13,412,370		US ft (NAD83)		EASTING 2,600,063		US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)		
DATE STARTED 11/28/07		COMPLETED 11/29/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-32.1					Continued from previous page							
-38.4	118.5	7	9	12								FAT CLAY (CH), very pale brown (10YR7/3), mottled brownish yellow (10YR6/8), very stiff, moist, few sand, trace carbonate nodules, trace organics, weak HCl reaction (continued)
-48.4	128.5	12	11	16						SS-26		FAT CLAY with sand (CH), very pale brown (10YR8/3), very stiff, moist, little sand, weak HCl reaction, carbonate nodules, organics, trace ferrous staining
-58.4	138.5	8	8	10						SS-27		128.5ft: very pale brown (10YR7/3), strong HCl reaction
-68.4	148.5	6	7	9						SS-28		138.5ft: very pale brown (10YR8/2), few sand
-78.4	158.5	29	14	17						SS-29		148.5ft: mottled yellow (10YR7/8), little sand
										SS-30		158.5ft: Clayey SAND (SC), very pale brown (10YR8/2), dense, moist, little fines, trace organics, strong HCl reaction

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy					
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777						GROUND WATER (ft)	
BORING NO. B-2175		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND			
GROUND SURFACE ELEV. 80.1 ft (NAVD88)		NORTHING 13,412,370		US ft (NAD83)		EASTING 2,600,063		US ft (NAD83)		24 HR. ND			
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)			
DATE STARTED 11/28/07		COMPLETED 11/29/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit			
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-88.2					Continued from previous page								
-88.4	168.5	29	39	45						SS-31		POORLY GRADED SAND (SP), very pale brown (10YR7/3, 10YR8/3), very dense, wet, medium to coarse sand, few fines, trace rounded to sub-rounded fine gravel, strong HCl reaction	
-98.4	178.5	23	25	31						SS-32			
-108.4	188.5	50/0.4								SS-33		POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR8/2, 10YR8/4), very dense, wet, few fines, trace fine gravel, strong HCl reaction	
-118.4	198.5	18	29	29						SS-34			
												Boring Terminated at Elevation -119.9 ft	

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



GEOTECHNICAL BORING LOG

Prepared By J.P.Z. Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 4

BECHTEL PROJECT NO.: 25352					COUNTY Victoria					GEOLOGIST C. Gandy									
SITE DESCRIPTION Exelon COL Project										MACTEC PROJECT NO.: 6468-07-1777					GROUND WATER (ft)				
BORING NO. B-2176A					DRILL METHOD: Mud Rotary					SAMPLE METHODS: SPT					0 HR. ND				
GROUND SURFACE ELEV. 79.8 ft (NAVD88)					NORTHING 13,412,512 US ft (NAD83)					EASTING 2,600,175 US ft (NAD83)					24 HR. ND				
TOTAL DEPTH 200.0 ft					DRILL MACHINE CME-55 LC					DRILLER: D. White/O. Smith					HAMMER (ID) 140 lb. Auto (MEC 02)				
DATE STARTED 12/1/07					COMPLETED 12/3/07					CASING DEPTH: N/A					BITS USED: 2 7/8" Wing Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION						
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100					
79.8					Ground Surface														
79.8	0.0	2	3	5									79.8	0.0	FAT CLAY with sand (CH), very dark gray (10YR3/1), firm, moist, little sand, no HCl reaction, organics, thinly laminated				
76.3	3.5	3	4	6											3.5ft: gray (10YR5/1), stiff				
73.8	6.0	6	7	10									73.8	6.0	LEAN CLAY (CL), very pale brown (10YR7/3), very stiff, moist, little sand, strong HCl reaction, ferrous staining, trace carbonate nodules, organics, thinly laminated				
71.3	8.5	9	10	11															
68.8	11.0	9	10	12															
66.3	13.5	7	6	7											13.5ft: stiff				
61.3	18.5	5	6	8											18.5ft: few sand, weak HCl reaction, some organics and ferrous staining				
56.3	23.5	5	4	5									56.3	23.5	FAT CLAY (CH), very pale brown (10YR7/4), mottled brownish yellow (10YR6/6), stiff, moist, few sand, strong HCl reaction, organics, trace carbonate nodules				
51.3	28.5	5	5	8											28.5ft: yellow (10YR7/8), mottled very pale brown (10YR7/3)				
46.3	33.5	5	5	6											33.5ft: brownish yellow (10YR6/6), mottled light greenish gray (10YR8/1)				
41.3	38.5	5	5	10											38.5ft: light gray (10YR7/2), mottled, brownish yellow (10YR6/6), little sand, weak HCl reaction				
36.3	43.5	9	12	15											43.5ft: yellow (10YR7/8), very stiff, strong HCl reaction				
31.3	48.5	6	7	10											48.5ft: light yellowish brown (10YR6/4), mottled light greenish gray (10Y8/1), few sand				
26.3	53.5	6	10	11											53.5ft: light gray (10YR7/2), little sand, weak to no HCl reaction				

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy							
SITE DESCRIPTION Exelon COL Project						MACTEC PROJECT NO.: 6468-07-1777						GROUND WATER (ft)			
BORING NO. B-2176A		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT						0 HR. ND			
GROUND SURFACE ELEV. 79.8 ft (NAVD88)		NORTHING 13,412,512 US ft (NAD83)		EASTING 2,600,175 US ft (NAD83)		24 HR. ND									
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)					
DATE STARTED 12/1/07		COMPLETED 12/3/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit					
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100	
23.7		Continued from previous page													
21.3	58.5	7	9	13											FAT CLAY (CH), very pale brown (10YR7/4), mottled brownish yellow (10YR6/6), stiff, moist, few sand, strong HCl reaction, organics, trace carbonate nodules (continued)
16.3	63.5	4	5	7											63.5ft: very pale brown (10YR7/3), stiff, trace sand
11.3	68.5	5	7	10											68.5ft: pale brown (10YR6/3), very stiff, little sand, strong HCl reaction
6.3	73.5	6	7	10											73.5ft: very pale brown (10YR7/3), few sand, weak HCl reaction
1.3	78.5	6	9	11											78.5ft: light gray (10YR7/2), very stiff, some sand, no HCl reaction
-3.7	83.5	6	7	9											83.5ft: very pale brown (10YR7/3), little sand, weak HCl reaction
-8.7	88.5	9	13	22											86.0 Clayey SAND (SC), very pale brown (10YR7/3), dense, moist, fine grained, some fines, strong HCl reaction, carbonate nodules, ferrous staining
-13.7	93.5	11	25	50/0.4											91.0 POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR7/3), very dense, wet, fine grained, few fines, strong HCl reaction
-19.0	98.8														94.0 Sandy FAT CLAY (CH), very pale brown (10YR8/2), hard, moist, some sand, strong HCl reaction, ferrous staining, organics, carbonate nodules
-20.2	100.0	50/0.5													98.5 POORLY GRADED SAND (SP), very pale brown (10YR7/4), very dense, wet, medium to coarse grained, trace fines, strong HCl reaction, 0.1ft-thick clay seam
-28.7	108.5	46	39	47											108.5 FAT CLAY (CH), very pale brown (10YR8/2) and brownish yellow (10YR6/8), very stiff, moist, few sand, strong HCl reaction, mottled, organics, ferrous staining, trace carbonate nodules

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



SHEET 3 OF 4

BECHTEL PROJECT NO.: 25352					COUNTY Victoria					GEOLOGIST C. Gandy									
SITE DESCRIPTION Exelon COL Project										MACTEC PROJECT NO.: 6468-07-1777					GROUND WATER (ft)				
BORING NO. B-2176A					DRILL METHOD: Mud Rotary					SAMPLE METHODS: SPT					0 HR. ND				
GROUND SURFACE ELEV. 79.8 ft (NAVD88)					NORTHING 13,412,512 US ft (NAD83)					EASTING 2,600,175 US ft (NAD83)					24 HR. ND				
TOTAL DEPTH 200.0 ft					DRILL MACHINE CME-55 LC					DRILLER: D. White/O. Smith					HAMMER (ID) 140 lb. Auto (MEC 02)				
DATE STARTED 12/1/07					COMPLETED 12/3/07					CASING DEPTH: N/A					BITS USED: 2 7/8" Wing Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION						
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100									
-32.4					Continued from previous page														
-38.7	118.5	7	8	12							SS-26		FAT CLAY (CH), very pale brown (10YR8/2) and brownish yellow (10YR6/8), very stiff, moist, few sand, strong HCl reaction, mottled, organics, ferrous staining, trace carbonate nodules (continued)						
-48.7	128.5	6	8	12							SS-27		118.5ft: light gray (10YR7/2), little sand, no HCl reaction						
-58.7	138.5	5	7	9							SS-28		128.5ft: very pale brown (10YR8/3), strong HCl reaction						
-68.7	148.5	5	5	7							SS-29		138.5ft: trace sand						
-73.2													148.5ft: stiff, some sand						
-78.7	158.5	21	50/0.4								SS-30		71/0.9		POORLY GRADED SAND (SP), very pale brown (10YR8/2), very dense, wet, medium to coarse grained, trace fines, strong HCl reaction, 0.15ft-thick clay seam, trace gravel				

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy					
SITE DESCRIPTION Exelon COL Project						MACTEC PROJECT NO.: 6468-07-1777						GROUND WATER (ft)	
BORING NO. B-2176A		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND			
GROUND SURFACE ELEV. 79.8 ft (NAVD88)		NORTHING 13,412,512		US ft (NAD83)		EASTING 2,600,175		US ft (NAD83)		24 HR. ND			
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)			
DATE STARTED 12/1/07		COMPLETED 12/3/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit			
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-88.5					Continued from previous page								
-88.7	168.5	31	35	33	●68					SS-31	MOI	POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR8/3), very dense, wet, fine to medium grained, few fines, strong HCl reaction, trace gravel	
-98.7	178.5	22	31	44	●75					SS-32	MOI	POORLY GRADED SAND (SP), very pale brown (10YR7/4), very dense, wet, medium to coarse grained, trace fines, weak HCl reaction, trace gravel	
-108.7	188.5	29	41	48	●89					SS-33	MOI		
-118.7	198.5	8	13	10	●23					SS-34	MOI	Sandy FAT CLAY with gravel (CH), yellow (10YR7/8), very stiff, moist, medium to coarse grained, some sand, little gravel, strong HCl reaction, carbonate nodules, indurated sand nodules Boring Terminated at Elevation -120.2 ft	

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



GEOTECHNICAL BORING LOG

Prepared By J J Z Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST B. Taylor						
SITE DESCRIPTION Exelon COL Project				MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)						
BORING NO. B-2177		DRILL METHOD: Mud Rotary		SAMPLE METHODS: SPT				0 HR. ND		24 HR. ND				
GROUND SURFACE ELEV. 79.6 ft (NAV88)		NORTHING 13,412,197 US ft (NAD83)		EASTING 2,600,000 US ft (NAD83)										
TOTAL DEPTH 150.0 ft		DRILL MACHINE CME-750		DRILLER: G. Bray/T. Bray/T. Ellerson				HAMMER (ID) 140 lb. Auto (263048)						
DATE STARTED 12/11/07		COMPLETED 12/13/07		CASING DEPTH: N/A				BITS USED: 2 7/8" Drag Bit						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
79.6	0.0	3	3	4	Ground Surface							79.6	0.0	
76.1	3.5	5	9	8	● 7					SS-1		FAT CLAY (CH), very dark gray (10YR3/1), firm, moist, few sand, no HCl reaction, roots		
73.6	6.0	5	7	8	● 17					SS-2		3.5ft: dark gray (10YR4/1), stiff to very stiff		
71.1	8.5	4	5	4	● 15					SS-3		6.0ft: gray (10YR6/1), little sand, strong to weak HCl reaction, carbonate nodules		
68.6	11.0	3	4	5	● 9					SS-4				
66.1	13.5	5	7	8	● 9					SS-5		11.0ft: few sand, weak HCl reaction		
63.6	16.0	5	5	8	● 15					SS-6				
61.1	18.5	4	6	7	● 13					SS-7		16.0ft: light gray (10YR7/1), mottled brownish yellow (10YR6/6)		
58.6	21.0	4	8	8	● 13					SS-8		18.0ft: strong HCl reaction		
56.1	23.5	4	6	7	● 16					SS-9				
53.6	26.0	5	6	8	● 13					SS-10				
51.1	28.5	6	8	10	● 14					SS-11				
48.6	31.0	7	8	9	● 18					SS-12		28.5ft: light yellowish brown (10YR6/4)		
46.1	33.5	5	8	11	● 17					SS-13				
43.6	36.0	6	8	12	● 19					SS-14		33.5ft: little sand		
41.1	38.5	7	8	7	● 20					SS-15		36.0ft: light gray (10YR7/1), no HCl reaction		
38.6	41.0	7	9	10	● 15					SS-16		41.1 Clayey SAND (SC), light gray (10YR7/1), firm, moist, fine grained, little fines, no to weak HCl reaction		
36.1	43.5	9	25	20	● 19					SS-17				
33.6	46.0	13	16	16	● 45					SS-18		43.5ft: dense to very firm, gray (10YR6/1), carbonate nodules		
31.1	48.5	12	21	21	● 32					SS-19		46.0ft: light brown (10YR6/2), strong HCl reaction		
28.6	51.0	6	10	12	● 42					SS-20				
26.1	53.5	15	16	25	● 22					SS-21		51.0ft: pale brown (10YR6/3)		
23.6	56.0				● 41					SS-22		53.5ft: light gray (10YR7/1), mottled brownish yellow (10YR6/8), ferrous staining		

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST B. Taylor						
SITE DESCRIPTION Exelon COL Project				MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)						
BORING NO. B-2177		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND				
GROUND SURFACE ELEV. 79.6 ft (NAVD88)		NORTHING 13,412,197		US ft (NAD83)		EASTING 2,600,000		US ft (NAD83)		24 HR. ND				
TOTAL DEPTH 150.0 ft		DRILL MACHINE CME-750				DRILLER: G. Bray/T. Bray/T. Ellerson				HAMMER (ID) 140 lb. Auto (263048)				
DATE STARTED 12/11/07		COMPLETED 12/13/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Drag Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100
23.5					Continued from previous page									
21.1	58.5	10	8	9										FAT CLAY with sand (CH), light gray (10YR7/1), very stiff, moist, little sand, strong HCl reaction, carbonate nodules (continued)
18.6	61.0	8	7	16										
16.1	63.5	5	5	6										61.0ft: light brownish yellow (10YR6/4), stiff
13.6	66.0	4	7	9										63.5ft: light gray (10YR7/1), mottled brownish yellow (10YR6/6), very stiff, few sand
11.1	68.5	4	4	7										66.0ft: light gray (10YR7/1), stiff, little sand
8.6	71.0	5	9	11										11.1 Clayey SAND (SC), light brownish gray (10YR6/2), firm, moist, fine grained, little fines, no HCl reaction
6.1	73.5	5	9	12										8.6 FAT CLAY (CH), light gray (10YR7/1), very stiff, moist, few to little sand, weak to no HCl reaction, carbonate nodules
3.6	76.0	6	8	10										
1.1	78.5	6	8	11										
-1.4	81.0	6	8	11										
-3.9	83.5	8	9	13										
-6.4	86.0	12	10	11										83.5ft: stiff
-8.9	88.5	9	7	8										86.0ft: very stiff
-11.4	91.0	7	7	9										
-13.9	93.5	14	12	10										-8.9 Clayey SAND (SC), light gray (10YR7/2), very firm, moist, fine grained, little fines, no HCl reaction
-16.4	96.0	11	14	11										
-18.9	98.5	22	35	50/0.2										-13.9 FAT CLAY with sand (CH), light gray (10YR7/1), hard, moist, little sand, strong HCl reaction, carbonate nodules
-21.4	101.0	26	23	29										-16.4 Clayey SAND (SC), light yellowish brown (10YR6/4), very dense, moist, fine grained, little to few fines, weak to strong HCl reaction, ferrous staining
-23.9	103.5	50/0.2												
-26.4	106.0	50/0.1												
-28.9	108.5	8	9	10										-23.9 FAT CLAY (CH), light gray (10YR7/1), very stiff, moist, few sand, strong HCl reaction, carbonate nodules
-31.4	111.0	11	15	17										106.0ft: mottled light yellowish brown (10YR6/4), hard, weak to strong HCl
		6	7	11										108.5ft: very stiff
		10	11	12										

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352			COUNTY Victoria			GEOLOGIST B. Taylor		
SITE DESCRIPTION Exelon COL Project			MACTEC PROJECT NO.: 6468-07-1777			GROUND WATER (ft)		
BORING NO. B-2177		DRILL METHOD: Mud Rotary		SAMPLE METHODS: SPT				0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)		NORTHING 13,412,197 US ft (NAD83)		EASTING 2,600,000 US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 150.0 ft		DRILL MACHINE CME-750		DRILLER: G. Bray/T. Bray/T. Ellerson		HAMMER (ID) 140 lb. Auto (263048)		
DATE STARTED 12/11/07		COMPLETED 12/13/07		CASING DEPTH: N/A		BITS USED: 2 7/8" Drag Bit		

ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-32.6					Continued from previous page							
-33.9	113.5	8	9	12							SS-46	FAT CLAY (CH), light gray (10YR7/1), very stiff, moist, few sand, strong HCl reaction, carbonate nodules (continued)
-36.4	116.0	9	12	15							SS-47	
-38.9	118.5	8	10	10							SS-48	
-41.4	121.0	11	11	16							SS-49	121.0ft: little sand, no HCl reaction
-43.9	123.5	24	31	31							SS-50	Clayey SAND (SC), light gray (10YR7/1), very dense, moist, fine grained, little fines, no to strong HCl reaction
-46.4	126.0	30	41	28							SS-51	
-48.9	128.5	12	13	17							SS-52	FAT CLAY (CH), light gray (10YR7/1), mottled brownish yellow (10YR6/6), very stiff, moist, few sand, strong HCl reaction
-51.4	131.0	19	26	35							SS-53	131.0ft: hard, little sand, carbonate nodules
-53.9	133.5	15	17	17							SS-54	
-56.4	136.0	10	26	50/0.2							SS-55	
-58.9	138.5	29	40	48							SS-56	Clayey SAND (SC), light brownish gray (10YR6/2), very dense, moist, fine grained, little fines, strong HCl reaction
-61.4	141.0	50/0.2									SS-57	141.0ft: few fines
-63.9	143.5	10	11	13							SS-58	FAT CLAY (CH), light gray (10YR7/1), mottled brownish yellow (10YR6/6), very stiff, moist, little sand, strong HCl reaction, carbonate nodules
-66.4	146.0	18	26	21							SS-59	Clayey SAND (SC), light gray (10YR7/1), dense, moist, fine grained, little fines, strong HCl reaction
-68.9	148.5	33	22	18							SS-60	FAT CLAY with sand (CH), light gray (10YR7/1), hard, moist, little sand, strong HCl reaction
												Boring Terminated at Elevation -70.4 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



GEOTECHNICAL BORING LOG

Prepared By SPF Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST J. Jarvis				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2178		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND		
GROUND SURFACE ELEV. 79.5 ft (NAVD88)		NORTHING 13,412,315		US ft (NAD83)		EASTING 2,600,107		US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 151.1 ft		DRILL MACHINE CME-45				DRILLER: J. Warren/J. Alexander				HAMMER (ID) 140 lb. Auto (MEC 12)		
DATE STARTED 11/13/07		COMPLETED 11/15/07				CASING DEPTH: N/A				BITS USED: 3" Roller Cone		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
79.5	0.0	2	3	3	Ground Surface							
79.5	0.0	2	3	3						SS-1		FAT CLAY with sand (CH), dark gray (7.5YR4/1), firm, moist, little sand, no HCl reaction
74.9	4.6	2	3	5						SS-2		4.6ft: gray (7.5YR5/1), carbonate nodules, weak HCl reaction
70.2	9.3	2	6	9						SS-3		9.3ft: stiff
65.6	13.9	5	8	13						SS-4		13.9ft: very stiff, strong HCl reaction
61.0	18.5	5	8	9						SS-5		FAT CLAY (CH), light gray (7.5YR7/1), very stiff, moist, few to little sand, strong HCl reaction, carbonate nodules, ferrous nodules, manganese staining
55.3	24.2	5	7	10						SS-6		24.2ft: very pale brown (10YR7/3)
50.3	29.2	4	7	11						SS-7		29.2ft: light gray (10YR7/2), mottled yellowish brown (10YR6/6)
45.3	34.2	5	8	16						SS-8		34.2ft: 0.2'-thick carbonate layer
40.3	39.2	5	7	12						SS-9		39.2ft: carbonate nodules throughout
35.2	44.3	7	13	11						SS-10		43.3 Clayey SAND (SC), light gray (10YR7/1), mottled brownish yellow (10YR6/8), very firm, wet, few fines, no HCl reaction
30.0	49.5	8	12	16						SS-11		49.5ft: mottled with yellow (10YR7/8), moist, carbonate horizons
25.2	54.3	8	15	24						SS-12		54.3ft: mottled with brownish yellow (10YR7/1), dense, wet, strong HCl reaction

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352					COUNTY Victoria					GEOLOGIST J. Jarvis				
SITE DESCRIPTION Exelon COL Project (Victoria Site)					MACTEC PROJECT NO.: 6468-07-1777					GROUND WATER (ft)				
BORING NO. B-2178		DRILL METHOD: Mud Rotary			SAMPLE METHODS: SPT					0 HR. ND				
GROUND SURFACE ELEV. 79.5 ft (NAVD89)		NORTHING 13,412,315			US ft (NAD83)		EASTING 2,600,107			US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 151.1 ft		DRILL MACHINE CME-45			DRILLER: J. Warren/J. Alexander					HAMMER (ID) 140 lb. Auto (MEC 12)				
DATE STARTED 11/13/07		COMPLETED 11/15/07			CASING DEPTH: N/A					BITS USED: 3" Roller Cone				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
23.4					Continued from previous page									
19.9	59.6	6	12	7							SS-13	19.9 - 59.6 Clayey SAND (SC), light gray (10YR7/1), mottled brownish yellow (10YR6/8), very firm, wet, few fines, no HCl reaction (continued)		
14.8	64.7	11	12	16							SS-14	14.6 - 59.6 Sandy FAT CLAY (CH), brownish yellow (10YR6/6), mottled light gray (10YR7/2), very stiff, wet, little sand, strong HCl reaction, carbonate nodules		
9.9	69.6	8	16	18							SS-15	64.9 - 64.9 POORLY GRADED SAND (SP), light brown (7.5YR6/3), very firm to dense, moist, few fines, no HCl reaction		
4.9	74.6	6	15	13							SS-16	74.6 - 74.6 FAT CLAY (CH), light brownish gray (10YR6/2), very stiff, moist, little sand, carbonate and ferrous nodules, black staining, strong HCl reaction		
-0.2	79.7	7	9	14							SS-17	74.6 - 79.7 79.7ft: light gray (10YR7/2), no HCl reaction		
-6.6	86.1	50/0.4									SS-18	84.6 - 86.1 POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/1), very dense, moist, few fines, carbonate layer 85.9 to 86.1ft, no HCl reaction in sand		
-10.2	89.7	6	10	19							SS-19	89.7 - 89.7 FAT CLAY (CH), light brownish gray (10YR6/2), mottled brownish yellow (10YR6/6), very stiff, moist, few sand, carbonate nodules, strong HCl reaction		
-15.2	94.7	8	10	15							SS-20	89.7 - 94.7 FAT CLAY (CH), light brownish gray (10YR6/2), mottled brownish yellow (10YR6/6), very stiff, moist, few sand, carbonate nodules, strong HCl reaction		
-20.2	99.7	4	12	19							SS-21	99.7 - 99.7 POORLY GRADED SAND (SP), light yellowish brown (2.5YR6/4), dense, wet, trace fines, ferrous and manganese staining, no HCl reaction		
-30.1	109.6	6	12	20							SS-22	109.6 - 109.6 FAT CLAY (CH), light gray (10YR7/2), hard, moist, little sand, carbonate and ferrous nodules, strong HCl reaction		

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST J. Jarvis									
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)							
BORING NO. B-2178		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND							
GROUND SURFACE ELEV. 79.5 ft (NAVD88)		NORTHING 13,412,315 US ft (NAD83)		EASTING 2,600,107 US ft (NAD83)						24 HR. ND							
TOTAL DEPTH 151.1 ft		DRILL MACHINE CME-45				DRILLER: J. Warren/J. Alexander				HAMMER (ID) 140 lb. Auto (MEC 12)							
DATE STARTED 11/13/07		COMPLETED 11/15/07				CASING DEPTH: N/A				BITS USED: 3" Roller Cone							
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION					
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100				
-32.7					Continued from previous page												
-40.2	119.7	5	10	16						SS-23		FAT CLAY (CH), light gray (10YR7/2), hard, moist, little sand, carbonate and ferrous nodules, strong HCl reaction (continued)					
-50.2	129.7	5	8	12													119.7ft: very stiff
-60.1	139.6	9	19	17													139.6ft: hard
-70.1	149.6	8	18	20													
										SS-26		-70.1 149.6 -71.6 151.1 WELL-GRADED SAND (SW), pinkish gray (7.5YR7/2), dense, wet, trace fines, no HCl reaction, black particles Boring Terminated at Elevation -71.6 ft					

EXELON COL. BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



GEOTECHNICAL BORING LOG

Prepared By 200X Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 4

BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy						
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777						GROUND WATER (ft)		
BORING NO. B-2179		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT						0 HR.	ND	
GROUND SURFACE ELEV. 79.8 ft (NAVD88)		NORTHING 13,412,425		US ft (NAD83)		EASTING 2,600,169		US ft (NAD83)		24 HR.		ND		
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)				
DATE STARTED 11/30/07		COMPLETED 12/1/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
79.8					Ground Surface							79.8	0.0	
79.8	0.0	3	3	3							SS-1	FAT CLAY with sand (CH), very dark gray (7.5YR3/1), firm, moist, trace to little sand, no HCl reaction, roots		
76.3	3.5	5	5	6							SS-2		3.5ft: stiff, thinly laminated, trace carbonate nodules	
73.8	6.0	5	7	8							SS-3	Sandy LEAN CLAY (CL), very pale brown (10YR7/3), stiff, moist, little sand, ferrous staining, carbonate nodules, strong to weak HCl reaction, organics, thinly laminated	73.8	6.0
71.3	8.5	7	8	10							SS-4		8.5ft: very stiff	
68.8	11.0	8	10	12							SS-5			
66.3	13.5	6	6	7							SS-6	FAT CLAY (CH), light gray (10YR7/1), stiff, moist, trace to little sand, carbonate nodules, strong HCl reaction, organics, trace ferrous staining	66.3	13.5
61.3	18.5	5	6	8							SS-7	18.5ft: very pale brown (10YR7/3), weak HCl reaction		
56.3	23.5	5	5	6							SS-8	23.5ft: mottled yellow (10YR7/8), strong HCl reaction		
51.3	28.5	5	8	10							SS-9	28.5ft: yellow (10YR7/8), mottled light gray (10YR7/1), very stiff		
46.3	33.5	4	6	8							SS-10	33.5ft: mottled light gray (10YR7/2), stiff		
41.3	38.5	9	13	12							SS-11	Clayey SAND (SC), yellow (10YR7/8), mottled very pale brown (10YR7/3), very firm, moist, fine grained, little fines, no HCl reaction, trace carbonate nodules	41.3	38.5
36.3	43.5	11	8	28							SS-12	43.5ft: mottled light gray (10YR7/2), dense, wet, indurated carbonate seam and clay seam		
31.3	48.5	17	17	50/0.4							SS-13	48.5ft: mottled very pale brown (10YR7/3), very dense, strong HCl reaction, 0.4"-thick clay seam		
26.3	53.5	7	14	22							SS-14	53.5ft: very pale brown (10YR7/3), dense, little to some fines, weak HCl reaction	23.8	56.0

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy						
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)				
BORING NO. B-2179		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND				
GROUND SURFACE ELEV. 79.8 ft (NAVD88)		NORTHING 13,412,425 US ft (NAD83)		EASTING 2,600,169 US ft (NAD83)		24 HR. ND								
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)				
DATE STARTED 11/30/07		COMPLETED 12/1/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
23.7		Continued from previous page												
21.3	58.5	10	12	17							SS-15		Sandy FAT CLAY (CH), very pale brown (10YR7/3), very stiff, moist, some sand, no HCl reaction, carbonate nodules, organics, ferrous staining (continued)	
16.3	63.5	5	6	8							SS-16		63.5ft: stiff, few sand, strong HCl reaction	
11.3	68.5	6	8	11							SS-17		68.5ft: very stiff, little to few sand, weak to strong HCl reaction	
6.3	73.5	8	7	8							SS-18		73.5ft: stiff	
1.3	78.5	6	7	9							SS-19		78.5ft: very stiff	
-3.7	83.5	8	9	11							SS-20			
-8.7	88.5	16	19	20							SS-21		-8.7 Clayey SAND (SC), very pale brown (10YR7/3), dense, wet, fine grained, little to some fines, weak HCl reaction	
-13.7	93.5	16	21	28							SS-22		-11.2 FAT CLAY (CH), very pale brown (10YR8/2), hard, moist, few sand, strong HCl reaction, little carbonate nodules, organics, trace ferrous staining	
-18.7	98.5	36	48	50							SS-23		-16.2 POORLY GRADED SAND (SP), very pale brown (10YR8/3), very dense, wet, fine grained, trace fines, strong HCl reaction	
-28.7	108.5	6	8	10							SS-24		-25.7 FAT CLAY (CH), very pale brown (10YR7/3), mottled yellow (10YR7/8), very stiff, moist, few sand, strong HCl reaction, ferrous staining, organics, trace carbonate nodules	

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2179		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND		
GROUND SURFACE ELEV. 79.8 ft (NAVD88)		NORTHING 13,412,425 US ft (NAD83)		EASTING 2,600,169 US ft (NAD83)		24 HR. ND						
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)		
DATE STARTED 11/30/07		COMPLETED 12/1/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-32.4					Continued from previous page							
-38.7	118.5	9	10	12							SS-25	FAT CLAY (CH), very pale brown (10YR7/3), mottled yellow (10YR7/8), very stiff, moist, few sand, strong HCl reaction, ferrous staining, organics, trace carbonate nodules (continued)
-48.7	128.5	9	13	17							SS-26	FAT CLAY with sand (CH), very pale brown (10YR7/3), very stiff, moist, little to trace sand, no HCl reaction, carbonate nodules, organics, ferrous staining
-58.7	138.5	10	7	10							SS-27	128.5ft: very pale brown (10YR8/2), mottled brownish yellow (10YR6/6), strong HCl reaction
-68.7	148.5	50/0.5									SS-28	POORLY GRADED SAND (SP), very pale brown (10YR8/3), very dense, wet, fine grained, trace fines, strong HCl reaction, trace clay seam
-78.7	158.5	50/0.4									SS-29	

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy						
SITE DESCRIPTION Exelon COL Project (Victoria Site)				MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)						
BORING NO. B-2179		DRILL METHOD: Mud Rotary		SAMPLE METHODS: SPT				0 HR. ND		24 HR. ND				
GROUND SURFACE ELEV. 79.8 ft (NAVD88)		NORTHING 13,412,425		US ft (NAD83)		EASTING 2,600,169		US ft (NAD83)						
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC		DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)						
DATE STARTED 11/30/07		COMPLETED 12/1/07		CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100
-88.5					Continued from previous page									
-88.7	168.5	22	26	33										POORLY GRADED SAND (SP), very pale brown (10YR8/3), very dense, wet, fine grained, trace fines, strong HCl reaction, trace clay seam (continued)
-98.7	178.5	21	30	37										POORLY GRADED SAND with clay and gravel (SP-SC), very pale brown (10YR7/4), very dense, wet, medium to coarse grained, few fines, little gravel, strong HCl reaction
-108.7	188.5	31	37	45										FAT CLAY (CH), yellow (10YR7/8), hard, moist, few sand, strong HCl reaction, indurated carbonate
-118.7	198.5	26	23	40										POORLY GRADED SAND (SP), very pale brown (10YR7/3), very dense, wet, fine grained, trace fines, strong HCl reaction
														Clayey SAND (SC), very pale brown (10YR7/3), very dense, wet, some fines, strong HCl reaction, trace gravel
														Boring Terminated at Elevation -120.2 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL_GDI 6/12/08



BECHTEL PROJECT NO.: 25352					COUNTY Victoria					GEOLOGIST C. Gandy				
SITE DESCRIPTION Exelon COL Project (Victoria Site)					MACTEC PROJECT NO.: 6468-07-1777					GROUND WATER (ft)				
BORING NO. B-2180		DRILL METHOD: Mud Rotary			SAMPLE METHODS: SPT					0 HR. ND				
GROUND SURFACE ELEV. 78.9 ft (NAVD88)		NORTHING 13,412,247			US ft (NAD83)		EASTING 2,600,063			US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC			DRILLER: D. White/O. Smith					HAMMER (ID) 140 lb. Auto (MEC 02)				
DATE STARTED 12/3/07		COMPLETED 12/5/07			CASING DEPTH: N/A					BITS USED: 2 7/8" Wing Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100
78.9	0.0	2	2	4	Ground Surface								78.9	0.0
75.4	3.5	2	3	4	SS-1								FAT CLAY with sand (CH), very dark gray (7.5YR3/1), firm, moist, few to little sand, no HCl reaction, trace organics	
72.9	6.0	3	5	6	SS-2								3.5ft: gray (10YR6/1), weak HCl reaction, carbonate nodules, thinly laminated	
70.4	8.5	8	10	11	SS-3								6.0ft: very pale brown (10YR7/3), stiff, strong HCl reaction, ferrous staining	
67.9	11.0	7	9	10	SS-4								8.5ft: light gray (10YR7/2), very stiff	
65.4	13.5	5	6	7	SS-5								11.0ft: very pale brown (10YR7/3)	
60.4	18.5	7	8	9	SS-6								13.5ft: stiff, few sand, weak HCl reaction, thinly laminated	
55.4	23.5	5	5	7	SS-7								60.4	18.5
50.4	28.5	7	9	11	SS-8								FAT CLAY (CH), light gray (10YR7/2), very stiff, moist, little to trace sand, strong HCl reaction, trace carbonate nodules, organics, ferrous staining	
45.4	33.5	6	9	11	SS-9								23.5ft: brownish yellow (10YR6/6), mottled light greenish gray (10Y8/1), stiff	
40.4	38.5	9	16	23	SS-10								28.5ft: very stiff	
35.4	43.5	10	22	21	SS-11								33.5ft: very pale brown (10YR7/3), no HCl reaction	
30.4	48.5	15	20	23	SS-12								40.4	38.5
25.4	53.5	14	12	16	SS-13								Clayey SAND (SC), yellow (10YR7/8), dense, moist, fine grained, little fines, strong HCl reaction	
					SS-14								43.5ft: wet, some fines, 0.4"-thick clay seam with carbonate nodules	
													48.5ft: brownish yellow (10YR6/6), little to some fines	
													54.5ft: very pale brown (10YR8/2), very firm	

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy						
SITE DESCRIPTION Exelon COL Project (Victoria Site)				MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)						
BORING NO. B-2180		DRILL METHOD: Mud Rotary		SAMPLE METHODS: SPT				0 HR. ND		24 HR. ND				
GROUND SURFACE ELEV. 78.9 ft (NAVD88)		NORTHING 13,412,247 US ft (NAD83)		EASTING 2,600,063 US ft (NAD83)										
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC		DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)						
DATE STARTED 12/3/07		COMPLETED 12/5/07		CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
22.7		Continued from previous page												
20.4	58.5	4	4	6						SS-15		Clayey SAND (SC), yellow (10YR7/8), dense, moist, fine grained, little fines, strong HCl reaction (continued) 58.5ft: very pale brown (10YR7/4), loose		
15.4	63.5	6	6	11						SS-16	15.4	FAT CLAY (CH), light yellowish brown (2.5YR6/4), mottled light greenish gray (10Y8/1), very stiff, moist, few sand, strong HCl reaction, carbonate nodules		
10.4	68.5	8	10	12						SS-17	12.4	Clayey SAND (SC), very pale brown (10YR7/4), very firm, wet, fine grained, some fines, weak HCl reaction, organics, carbonate nodules		
5.3	73.5	6	9	12						SS-18	5.3	Sandy FAT CLAY (CH), light gray (10YR7/2), very stiff, moist, some sand, no HCl reaction, organics, trace carbonate nodules		
0.3	78.5	8	10	13						SS-19	0.3	Clayey SAND (SC), light gray (10YR7/2), very firm, moist, some fines, weak HCl reaction, carbonate nodules, ferrous staining, trace organics		
-4.7	83.5	6	11	12						SS-20	-4.7	FAT CLAY with sand (CH), very pale brown (10YR7/3), mottled brownish yellow (10YR6/6), very stiff, moist, little sand, weak HCl reaction, carbonate nodules		
-9.7	88.5	12	16	26						SS-21	-7.2	Clayey SAND (SC), light gray (10YR7/2), dense, moist, fine grained, little to some fines, strong HCl reaction, carbonate nodules		
-14.7	93.5	21	24	26						SS-22		93.5ft: very pale brown (10YR7/3), wet, no HCl reaction		
-19.7	98.5	50/0.2								SS-23	-18.7	POORLY GRADED SAND (SP), yellow (10YR7/8), very dense, wet, medium to coarse grained, trace fines, strong HCl reaction, trace gravel		
-21.2	100.0	50/0.4								SS-24				
-29.7	108.5	9	10	12						SS-25	-25.2	FAT CLAY with sand (CH), very pale brown (10YR7/3), mottled brownish yellow (10YR6/8), very stiff, moist, carbonate nodules, trace organics		

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2180		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND		
GROUND SURFACE ELEV. 78.9 ft (NAVD88)		NORTHING 13,412,247 US ft (NAD83)		EASTING 2,600,063 US ft (NAD83)						24 HR. ND		
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)		
DATE STARTED 12/3/07		COMPLETED 12/5/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-33.4					Continued from previous page							
-39.7	118.5	7	9	11	●20					SS-26		FAT CLAY with sand (CH), very pale brown (10YR7/3), mottled brownish yellow (10YR6/8), very stiff, moist, carbonate nodules, trace organics (continued) 118.5ft: light gray (10YR7/2), no HCl reaction, ferrous staining
-49.7	128.5	14	17	24	●41					SS-27		Clayey SAND (SC), very pale brown (10YR7/3), dense, moist, fine grained, some fines, strong HCl reaction, carbonate nodules, ferrous staining
-59.7	138.5	21	13	41	●54					SS-28		Sandy FAT CLAY (CH), very pale brown (10YR7/3), hard, moist, some sand, strong HCl reaction, carbonate nodules, trace ferrous staining
-69.7	148.5	5	8	17	●25					SS-29		Clayey SAND (SC), very pale brown (10YR7/3), interlayered with yellow (10YR7/8), very firm, wet, fine grained, little fines, strong HCl reaction
-79.7	158.5	12	12	16	●28					SS-30		FAT CLAY (CH), very pale brown (10YR8/2), mottled brownish yellow (10YR6/8), very stiff, moist, few sand, strong HCl reaction, carbonate nodules

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST C. Gandy				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2180		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND		
GROUND SURFACE ELEV. 78.9 ft (NAVD88)		NORTHING 13,412,247		US ft (NAD83)		EASTING 2,600,063		US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 200.0 ft		DRILL MACHINE CME-55 LC				DRILLER: D. White/O. Smith				HAMMER (ID) 140 lb. Auto (MEC 02)		
DATE STARTED 12/3/07		COMPLETED 12/5/07				CASING DEPTH: N/A				BITS USED: 2 7/8" Wing Bit		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-89.5					Continued from previous page							
-89.7	168.5	31	50/0.4							SS-31		Clayey SAND (SC), very pale brown (10YR7/4), very dense, wet, fine to medium grained, little fines, strong HCl reaction, trace gravel
-99.7	178.5	50/0.1							SS-32		178.5ft: very pale brown (10YR8/2), to white (10YR8/1), some fines, indurated	
-109.7	188.5	32	26	29						SS-33		
-119.7	198.5	9	25	50/0.5						SS-34A/B		198.5ft: light yellowish brown (2.5Y6/4)
												FAT CLAY with sand (CH), brownish yellow (10YR6/6), hard, moist, little sand, strong HCl reaction, trace mottling Boring Terminated at Elevation -121.2 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



GEOTECHNICAL BORING LOG

Prepared By JJK Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25352					COUNTY Victoria					GEOLOGIST L. Bisson								
SITE DESCRIPTION Exelon COL Project (Victoria Site)					MACTEC PROJECT NO.: 6468-07-1777					GROUND WATER (ft)								
BORING NO. B-2181		DRILL METHOD: Mud Rotary			SAMPLE METHODS: SPT					0 HR. ND								
GROUND SURFACE ELEV. 79.2 ft (NAVD88)		NORTHING 13,412,143		US ft (NAD83)		EASTING 2,600,063		US ft (NAD83)			24 HR. ND							
TOTAL DEPTH 151.3 ft		DRILL MACHINE CME-550			DRILLER: L. Carter/D. Juhan					HAMMER (ID) 140 lb. Auto (MEC 03)								
DATE STARTED 11/9/07		COMPLETED 11/10/07			CASING DEPTH: N/A					BITS USED: 2 15/16" Drag Bit								
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION						
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100					
79.2					Ground Surface													
79.2	0.0	3	3	4								79.2	0.0					
75.7	3.5	8	11	14						SS-1				FAT CLAY (CH), black (2.5YR2.5/1), moist, firm, trace sand, no HCl reaction, trace roots, trace manganese nodules				
73.2	6.0	5	10	10						SS-2				3.5ft: dark gray (N/4), very stiff, dry to moist, trace carbonate nodules, no sand				
70.7	8.5	8	10	10						SS-3				6.0ft: greenish gray (10Y6/1), weak HCl reaction				
68.2	11.0	7	8	9						SS-4				8.5ft: brown (2.5Y5/2), dry to moist, few sand				
65.7	13.5	5	6	7						SS-5				11.0ft: light brownish gray (10YR6/2)				
59.4	19.8	5	7	10						SS-6				13.5ft: greenish gray (10Y6/1), stiff, no sand				
54.4	24.8	4	5	6						SS-7				19.8ft: very stiff, trace to few sands, no HCl reaction				
49.4	29.8	5	10	11						SS-8				24.8ft: light greenish gray (10Y7/1), stiff, weak HCl reaction				
44.4	34.8	8	10	12						SS-9				29.8ft: mottled strong brown (7.5YR5/6), and greenish gray (5GY6/1), very stiff				
39.4	39.8	7	8	9						SS-10				34.8ft: little sand				
34.4	44.8	40	31	22						SS-11				39.4	39.8	Clayey SAND (SC), mottled brownish yellow (10YR6/8), and light gray (10YR7/2), firm, wet, some fines, no HCl reaction		
29.4	49.8	13	40	26						SS-12A/B						44.8ft: very pale brown (10YR7/4), very dense, little gravel, weak HCl reaction		
24.4	54.8	7	8	10						SS-13								
										SS-14							24.4	54.8

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST L. Bisson						
SITE DESCRIPTION Exelon COL Project (Victoria Site)				MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)						
BORING NO. B-2181		DRILL METHOD: Mud Rotary		SAMPLE METHODS: SPT				0 HR. ND		24 HR. ND				
GROUND SURFACE ELEV. 79.2 ft (NAVD88)		NORTHING 13,412,143		US ft (NAD83)		EASTING 2,600,063		US ft (NAD83)						
TOTAL DEPTH 151.3 ft		DRILL MACHINE CME-550		DRILLER: L. Carter/D. Juhan				HAMMER (ID) 140 lb. Auto (MEC 03)						
DATE STARTED 11/9/07		COMPLETED 11/10/07		CASING DEPTH: N/A				BITS USED: 2 15/16" Drag Bit						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100
23.1					Continued from previous page									
19.4	59.8	6	12	13										POORLY GRADED SAND with clay (SP-SC), mottled brownish yellow (10YR6/8), to very pale brown (10YR7/3), firm, moist, few fines, weak HCl reaction (continued)
														59.8ft: brownish yellow (10YR6/6), very firm, wet, grading to clay
14.4	64.8	4	6	8										FAT CLAY with sand (CH), mottled brownish yellow (10YR6/8), and light greenish gray (10Y7/1), stiff, moist, little sand, trace carbonate nodules
9.4	69.8	5	11	12										POORLY GRADED SAND with clay (SP-SC), pale yellow (10YR6/3), to brownish yellow (10YR6/8), very firm, wet, interbedded sand and clay, few clay, no to weak HCl reaction
4.4	74.8	10	10	10										Sandy FAT CLAY (CH), gray (10YR6/1), very stiff, moist, some sands, no HCl reaction, trace organics
-0.6	79.8	11	12	15										POORLY GRADED SAND with clay (SP-SC), gray (10YR5/1), very firm, wet, few fines, no HCl reaction
-5.6	84.8	6	8	9										FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, no HCl reaction, trace carbonate nodules, trace organic staining
-10.6	89.8	8	16	42										89.8ft: hard, few sand, little gravel
-15.6	94.8	4	7	8										Clayey SAND (SC), light gray (10YR7/1), firm, wet, little fines, no HCl reaction, trace organic staining
-20.6	99.8	30	50/0.3						80/0.8					POORLY GRADED SAND with clay (SP-SC), brownish yellow (10YR6/8), to light yellowish brown (10YR6/4), very dense, moist, few clay, fine to medium grained, no to weak HCl reaction
-30.6	109.8	21	27	22										

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST L. Bisson				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2181		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND		
GROUND SURFACE ELEV. 79.2 ft (NAVD88)		NORTHING 13,412,143		US ft (NAD83)		EASTING 2,600,063		US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 151.3 ft		DRILL MACHINE CME-550				DRILLER: L. Carter/D. Juhan				HAMMER (ID) 140 lb. Auto (MEC 03)		
DATE STARTED 11/9/07		COMPLETED 11/10/07				CASING DEPTH: N/A				BITS USED: 2 15/16" Drag Bit		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-33.0					Continued from previous page							
-40.6	119.8	4	11	12	● 23					SS-25		FAT CLAY (CH), greenish gray (10Y6/1), hard, moist, few sand, weak HCl reaction, trace carbonate nodules, trace organic staining (continued) 119.8ft: very stiff, little sand, no HCl reaction, trace black and orange staining
-50.6	129.8	14	22	23	● 45					SS-26		129.8ft: mottled strong brown (7.5YR5/8), hard, few sand, weak HCl reaction, trace carbonate nodules
-60.6	139.8	11	15	17	● 32					SS-27		POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), dense, wet, few fines, no to weak HCl reaction, trace feldspar and black grains
-70.6	149.8	22	29	28	● 57					SS-28		149.8ft: light brownish gray (10YR6/2), very dense
												Boring Terminated at Elevation -72.1 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



GEOTECHNICAL BORING LOG

Prepared By JDX Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 8

BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST H. Lyatus								
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777						GROUND WATER (ft)				
BORING NO. B-2182A		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT						0 HR.	ND			
GROUND SURFACE ELEV. 79.7 ft (NAVD88)		NORTHING 13,412,220		US ft (NAD83)		EASTING 2,600,133		US ft (NAD83)		24 HR.	ND					
TOTAL DEPTH 399.8 ft		DRILL MACHINE CME-75				DRILLER: T. Warren/N. Skoglund				HAMMER (ID) 140 lb. Auto (MEC 09)						
DATE STARTED 11/28/07		COMPLETED 12/6/07				CASING DEPTH: N/A				BITS USED: 4 1/4" and 3 7/8" Drag Bit						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100		
79.7					Ground Surface								79.7	0.0		
79.7	0.0	6	8	10												
76.7	3.0	6	10	14												
73.7	6.0	7	10	15												
71.2	8.5	5	10	13												
68.7	11.0	7	15	17												
66.2	13.5	10	14	16												
61.2	18.5	7	11	11												
56.2	23.5	5	8	11												
51.2	28.5	5	9	10												
46.2	33.5	6	9	14												
41.2	38.5	9	11	18												
36.2	43.5	10	25	23												
31.2	48.5	11	11	19												
26.2	53.5	10	12	20												

EXELON COL BORE EXELON-2.GPI EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST H. Lyatus				
SITE DESCRIPTION Exelon COL Project (Victoria Site)				MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)				
BORING NO. B-2182A		DRILL METHOD: Mud Rotary		SAMPLE METHODS: SPT				0 HR. ND		24 HR. ND		
GROUND SURFACE ELEV. 79.7 ft (NAVD88)		NORTHING 13,412,220 US ft (NAD83)		EASTING 2,600,133 US ft (NAD83)								
TOTAL DEPTH 399.8 ft		DRILL MACHINE CME-75		DRILLER: T. Warren/N. Skoglund				HAMMER (ID) 140 lb. Auto (MEC 09)				
DATE STARTED 11/28/07		COMPLETED 12/6/07		CASING DEPTH: N/A				BITS USED: 4 1/4" and 3 7/8" Drag Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
23.6					Continued from previous page							
21.2	58.5	13	16	18							SS-15	Clayey SAND (SC) light gray (10YR7/2), mottled strong brown (7.5YR5/8), dense, wet, fine to medium grained sand, weak HCl reaction (visual) (continued)
16.2	63.5	7	9	11							SS-16	Sandy LEAN CLAY (CL), very pale brown (10YR7/4), mottled pinkish gray (7.5YR7/2), hard, moist, fine to medium grained sand, strong HCl reaction, carbonate nodules
11.2	68.5	7	12	15							SS-17A/B	FAT CLAY with sand (CH), brown (7.5YR5/6), mottled light gray (2.5YR7/2), very stiff, moist, fine to medium grained sand, weak HCl reaction, carbonate nodules
6.2	73.5	7	9	12							SS-18	Clayey SAND (SC), light olive gray (5Y6/2), fine to medium grained sand, weak HCl reaction
1.2	78.5	10	12	16							SS-19	FAT CLAY with sand (CH), brown (7.5YR5/6), mottled light gray (2.5YR7/2), very stiff, moist, fine to medium grained sand, weak HCl reaction, carbonate nodules
-3.8	83.5	13	16	50/0.4							SS-20	LEAN CLAY with sand (CL), light brownish gray (2.5Y6/2), very stiff, moist, fine to medium grained sand, weak HCl reaction, carbonate nodules
-8.8	88.5	7	8	11							SS-21	Clayey SAND (SC), very pale brown (10YR7/4), very firm, moist, fine to medium grained sand (visual)
-13.8	93.5	19	35	48							SS-22	FAT CLAY (CH), light reddish brown (5YR6/4), mottled with very pale brown (10YR7/4), very stiff, moist, fine to medium grained sand, calcareous nodules, black and brown stains, strong HCl reaction
-18.8	98.5	7	19	23							SS-23	Sandy LEAN CLAY (CL), pinkish gray (10YR7/2), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction, dark brown stains
-28.5	108.2	13	10	14							SS-24	Clayey SAND (SC), light gray (10YR7/2), very dense, moist, fine to coarse grained sand, fine grained gravel, carbonate nodules, brown stains, strong HCl reaction
												FAT CLAY with sand (CH), very pale brown (10YR7/3), very stiff, moist, fine to medium grained sand, carbonate nodules, brown stains, strong HCl reaction
												LEAN CLAY with sand (CL), very pale brown (10YR8/2), mottled white (10YR8/1), hard, moist, fine to medium grained sand, strong HCl reaction
												Silty SAND (SM), pinkish gray (7.5YR6/2), dense, moist, fine to coarse grained sand, fine gravel, weak HCl reaction
												FAT CLAY (CH), very pale brown (10YR7/3) mottled strong brown (7.5YR5/6), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction, dark brown stains

EXELON COL BORE EXELON-2.CPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST H. Lyatus					
SITE DESCRIPTION Exelon COL Project (Victoria Site)				MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)					
BORING NO. B-2182A		DRILL METHOD: Mud Rotary		SAMPLE METHODS: SPT				0 HR. ND		24 HR. ND			
GROUND SURFACE ELEV. 79.7 ft (NAVD88)		NORTHING 13,412,220 US ft (NAD83)		EASTING 2,600,133 US ft (NAD83)		TOTAL DEPTH 399.8 ft		DRILL MACHINE CME-75		DRILLER: T. Warren/N. Skoglund		HAMMER (ID) 140 lb. Auto (MEC 09)	
DATE STARTED 11/28/07		COMPLETED 12/6/07		CASING DEPTH: N/A				BITS USED: 4 1/4" and 3 7/8" Drag Bit					
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
-32.5					Continued from previous page								
-38.6	118.3	11	12	14									FAT CLAY (CH), very pale brown (10YR7/3) mottled strong brown (7.5YR5/6), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction, dark brown stains (continued)
													Sandy LEAN CLAY (CL), light brown gray (10YR6/2), very stiff, moist, fine to coarse grained sand, fine gravel, carbonate nodules, strong HCl reaction, black stains
													Clayey SAND (SC), light gray (10YR7/2), very dense, moist, fine to medium grained sand, no HCl reaction (visual)
-48.6	128.3	16	35	32									128.3ft: split sample: SS-26A from 128.3-129.0ft and SS-26B from 129.0-129.8ft LEAN CLAY with sand (CL), light gray (10YR7/2), hard, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
													LEAN CLAY (CL), pinkish gray (7.5YR7/2), mottled yellowish brown (10YR5/8), hard, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
-58.6	138.3	24	27	50/0.4									SILT (ML), very pale brown (10YR7/3), mottled brownish gray (10YR6/6), fine to medium sand, carbonate nodules, strong HCl reaction
													Clayey SAND (SC), pinkish gray (7.5YR7/2), dense, moist, fine to medium grained sand, carbonate nodules, strong brown stains, strong HCl reaction (visual) 148.3ft: split sample: SS-28A from 148.3-148.8ft and SS-28B from 148.8-149.8ft POORLY GRADED SAND with silt (SP-SM), light gray (10YR7/2), to yellowish brown (10YR5/6), dense, wet, fine to medium grained sand, no HCl reaction (visual)
-68.6	148.3	16	25	16									158.3ft: light gray (5Y7/2), very dense, fine to medium grained sand, weak HCl reaction (visual)
-78.6	158.3	23	37	34									
-88.6	168.3												

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST H. Lyatus				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2182A		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR.	ND	
GROUND SURFACE ELEV. 79.7 ft (NAVD88)		NORTHING 13,412,220		US ft (NAD83)		EASTING 2,600,133		US ft (NAD83)		24 HR.	ND	
TOTAL DEPTH 399.8 ft		DRILL MACHINE CME-75				DRILLER: T. Warren/N. Skoglund				HAMMER (ID) 140 lb. Auto (MEC 09)		
DATE STARTED 11/28/07		COMPLETED 12/6/07				CASING DEPTH: N/A				BITS USED: 4 1/4" and 3 7/8" Drag Bit		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-88.6					Continued from previous page							
		11	20	24			44				SS-30	Clayey SAND (SC), pinkish gray (5YR7/2), dense, moist, fine to coarse grained sand, fine grained gravel, carbonate nodules, strong HCl reaction (visual) (continued)
-98.6	178.3											
		28	26	39			65				SS-31	Silty SAND (SM), very pale brown (10YR7/4), very dense, moist to wet, fine to coarse grained sand, carbonate nodules, strong HCl reaction (visual)
-108.6	188.3											
		50/0.3									SS-32	
-118.6	198.3											
		17	27	23			50				SS-33	Clayey SAND (SC), light gray (2.5YR7/1), dense, moist, fine to coarse grained sand, carbonate nodules, strong HCl reaction
-138.6	218.3											
		13	15	23			38				SS-34	LEAN CLAY with sand (CL), pinkish gray (7.5YR7/2), hard, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST H. Lyatus						
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)				
BORING NO. B-2182A		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR. ND				
GROUND SURFACE ELEV. 79.7 ft (NAVD88)		NORTHING 13,412,220		US ft (NAD83)		EASTING 2,600,133		US ft (NAD83)		24 HR. ND				
TOTAL DEPTH 399.8 ft		DRILL MACHINE CME-75				DRILLER: T. Warren/N. Skoglund				HAMMER (ID) 140 lb. Auto (MEC 09)				
DATE STARTED 11/28/07		COMPLETED 12/6/07				CASING DEPTH: N/A				BITS USED: 4 1/4" and 3 7/8" Drag Bit				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100
-144.7					Continued from previous page									
-158.6	238.3	22	36	50/0.1						86/0.6	SS-35			LEAN CLAY with sand (CL), pinkish gray (7.5YR7/2), hard, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction (continued)
-164.3														Silty, clayey SAND (SC-SM), light gray (5Y7/2), very dense, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction, brown stains
-178.6	258.3	27	33	27						60	SS-36			Silty SAND (SM), light gray (2.5Y7/1), very dense, moist, fine to medium grained sand, no HCl reaction (visual)
-190.3														FAT CLAY with sand (CH), light gray (5Y7/2), fine to coarse grained sand, fine gravel, trace carbonate nodules, strong HCl reaction
-198.6	278.3	50/0.3								50/0.3	SS-37			Clayey SAND (SC), light gray (10YR7/1), very dense, wet, fine to medium grained sand, no HCl reaction (visual)

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



BECHTEL PROJECT NO.: 25352				COUNTY Victoria				GEOLOGIST H. Lyatus				
SITE DESCRIPTION Exelon COL Project (Victoria Site)						MACTEC PROJECT NO.: 6468-07-1777				GROUND WATER (ft)		
BORING NO. B-2182A		DRILL METHOD: Mud Rotary				SAMPLE METHODS: SPT				0 HR.	ND	
GROUND SURFACE ELEV. 79.7 ft (NAVD88)		NORTHING 13,412,220		US ft (NAD83)		EASTING 2,600,133		US ft (NAD83)		24 HR.	ND	
TOTAL DEPTH 399.8 ft		DRILL MACHINE CME-75				DRILLER: T. Warren/N. Skoglund				HAMMER (ID) 140 lb. Auto (MEC 09)		
DATE STARTED 11/28/07		COMPLETED 12/6/07				CASING DEPTH: N/A				BITS USED: 4 1/4" and 3 7/8" Drag Bit		
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-256.9					Continued from previous page							
-258.7	338.4	17	18	25	● 43					SS-40		FAT CLAY (CH), pale brown (10YR6/3), fine grained sand, trace carbonate nodules (continued) 338.4ft: light gray (2.5YR7/2), mottled yellowish brown (10YR5/4), hard, moist, fine to medium grained sand, strong HCl reaction LEAN CLAY (CL), light gray (5Y7/2), fine to coarse grained sand, trace carbonate nodules, strong HCl reaction
												-260.3 340.0
												-270.3 350.0
-278.7	358.4	50/0.5			● 50/0.5					SS-41		POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), strong HCl reaction Clayey SAND (SC), light gray (10YR7/2), very dense, moist, fine to medium grained sand, weak HCl reaction (visual)
												-278.7 358.4
												-290.3 370.0
-299.2	378.9	18	21	28	● 49					SS-42		FAT CLAY (CH) light gray (5Y7/2) mottled brown (10YR5/3), hard, moist, fine to medium grained sand, weak to strong HCl reaction

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08