MACTEC

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-2167	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.2 ft (NAVD88)	NORTHING 13,412,192 US ft (NAD83)	EASTING 2,599,781 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 150.0 ft	DRILL MACHINE CME-55 LC	DRILLER: D. White/O. Smith	HAMMER (ID) 140 lb. Auto (MEC 02)
DATE STARTED 11/14/07	COMPLETED 11/15/07	CASING DEPTH: N/A	BITS USED: 2 7/8" Wing Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-32.0					Continued from previous page				
									FAT CLAY (CH), very pale brown (10YR7/4), to brownish yellow (10YR6/6), stiff, moist, few sand, weak HCl reaction, carbonate nodules, organics *(continued)*
-38.3	118.5								-38.3 — 118.5
		7	7	10	17	SS-25			FAT CLAY with sand (CH), very pale brown (10YR8/2), very stiff, moist, little sand, no HCl reaction, trace carbonate nodules and organics, ferrous staining
-48.3	128.5								
		10	19	18	37	SS-26			128.5ft: hard, moist to wet, some fine to coarse grained sand, 0.25"-thick coarse sand seam
-58.3	138.5								-58.3 — 138.5
		15	16	15	31	SS-27A/B			-59.3 — 139.5 Clayey SAND (SC), light gray (10YR7/2), dense, moist, little fines, no HCl reaction
									Sandy FAT CLAY (CH), light gray (10YR7/2), hard, moist, some sand, no HCl reaction
-68.3	148.5								
		10	13	16	29	SS-28			148.5ft: very stiff, little sand, trace carbonate nodules
									-69.8 — 150.0
									Boring Terminated at Elevation -69.8 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By [illegible] Date 6-12-08

Checked By KAW Date 7.10.08

SHEET 1 OF 4

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST B. Taylor
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2168	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,294 US ft (NAD83)	EASTING 2,599,891 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 201.5 ft	DRILL MACHINE CME-750	DRILLER: G. Bray/T. Ellerson	HAMMER (ID) 140 lb. Auto (263048)
DATE STARTED 11/29/07	COMPLETED 12/1/07	CASING DEPTH: N/A	BITS USED: 2 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
80.1					Ground Surface				
80.1	0.0	2	4	4	8	SS-1			FAT CLAY with sand (CH), very dark gray (10YR3/1), firm, moist, little sand, no HCl reaction
76.6	3.5	2	5	7	12	SS-2			3.5ft: stiff, dark gray (10YR4/1)
74.1	6.0	5	7	6	13	SS-3			6.0ft: gray (10YR6/1), few sand, strong HCl reaction, carbonate nodules
71.6	8.5	5	5	7	12	SS-4			8.5ft: little sand
69.1	11.0	5	7	8	15	SS-5			11.0ft: weak HCl reaction
66.6	13.5	6	7	8	15	SS-6			
60.1	20.0	6	6	9	15	SS-7			FAT CLAY (CH), gray (10YR6/1), mottled brownish yellow (10YR6/6), stiff, moist, few sand, strong HCl reaction, ferrous nodules
55.1	25.0	5	5	7	12	SS-8			25.0ft: light gray (10YR7/1), mottled brownish yellow (10YR6/6), black staining
50.1	30.0	6	6	7	13	SS-9			30.0ft: brownish yellow (10YR6/6), trace sand
45.1	35.0	6	6	9	15	SS-10			35.0ft: light gray (10YR7/1), mottled yellowish brown (10YR6/6), few sand
40.1	40.0	11	19	20	39	SS-11			40.0ft: hard, some sand, weak HCl reaction
35.1	45.0	9	8	11	19	SS-12			45.0ft: very stiff, little sand
30.1	50.0	17	19	18	37	SS-13			50.0ft: hard, brownish yellow (10YR6/6), strong HCl reaction
25.1	55.0	9	10	10	20	SS-14			

80.1 — 0.0
60.1 — 20.0
25.1 — 55.0

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST B. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2168	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,294 US ft (NAD83)	EASTING 2,599,891 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 201.5 ft	DRILL MACHINE CME-750	DRILLER: G. Bray/T. Ellerson	HAMMER (ID) 140 lb. Auto (263048)
DATE STARTED 11/29/07	COMPLETED 12/1/07	CASING DEPTH: N/A	BITS USED: 2 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.0					Continued from previous page				
									Clayey SAND (SC), yellowish brown (10YR5/6), firm, moist, fine grained, some fines, no HCl reaction *(continued)*
20.1	60.0								60.0ft: strong HCl reaction
		6	16	11	27	SS-15A/B			19.5 — 60.6 FAT CLAY with sand (CH), light gray (10YR7/1), mottled brownish yellow (10YR6/6), very stiff, moist, little sand, strong HCl reaction
15.1	65.0								
		4	7	6	13	SS-16			65.0ft: stiff, pale brown (10YR6/3), few sand, weak HCl reaction
10.1	70.0								
		4	5	7	12	SS-17			70.0ft: grayish brown (10YR5/2) little sand, carbonate nodules, strong HCl reaction
5.1	75.0								
		30	50/0.2		80/0.7	SS-18			75.0ft: pale brown (10YR6/3), hard, few sand, strong HCl reaction
0.1	80.0								0.1 — 80.0
		18	50/0.3		68/0.8	SS-19			Clayey SAND (SC), light brownish gray (10YR6/2), very dense, moist, little fines, no HCl reaction
-4.9	85.0								
		50/0.2			50/0.2	SS-20			85.0ft: strong HCl reaction, carbonate nodules
-9.9	90.0								-9.9 — 90.0
		6	7	8	15	SS-21			FAT CLAY (CH), light gray (10YR7/2), mottled brownish yellow (10YR6/6), stiff, moist, few sand, strong HCl reaction, carbonate nodules
-14.9	95.0								
		5	8	9	17	SS-22			95.0ft: gray (10YR6/1), very stiff, no HCl reaction
-19.9	100.0								-19.9 — 100.0
		14	14	21	35	SS-23			Clayey SAND (SC), gray (10YR6/1), dense, moist, fine grained, little fines, weak HCl reaction
-29.9	110.0								
		4	9	9	18	SS-24			110.0ft: firm, no HCl reaction

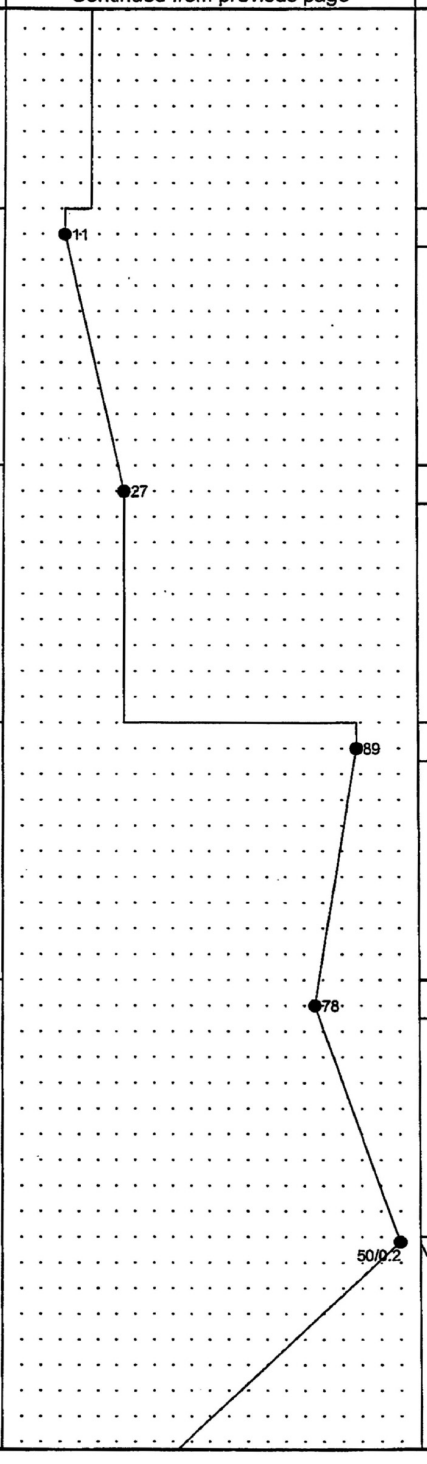
EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST B. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2168	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,294 US ft (NAD83)	EASTING 2,599,891 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 201.5 ft	DRILL MACHINE CME-750	DRILLER: G. Bray/T. Ellerson	HAMMER (ID) 140 lb. Auto (263048)
DATE STARTED 11/29/07	COMPLETED 12/1/07	CASING DEPTH: N/A	BITS USED: 2 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-32.1								Continued from previous page
								Clayey SAND (SC), gray (10YR6/1), dense, moist, fine grained, little fines, weak HCl reaction *(continued)*
-39.9	120.0							
		5	4	7	SS-25			Sandy FAT CLAY (CH), light brownish gray (10YR6/2), stiff, moist, some sand, strong HCl reaction
-49.9	130.0							
		9	13	14	SS-26			130.0ft: very stiff, few sand
-59.9	140.0							
		20	40	49	SS-27			Clayey SAND (SC), light gray (10YR7/2), very dense, moist, fine grained, little fines, strong HCl reaction, carbonate nodules
-69.9	150.0							
		9	28	50	SS-28			150.0ft: light brownish gray (10YR6/2)
-79.9	160.0							
		50/0.2			SS-29			

BLOWS PER FOOT: 0 20 40 60 80 100



-39.9 120.0

-59.9 140.0

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST B. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2168	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,294 US ft (NAD83)	EASTING 2,599,891 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 201.5 ft	DRILL MACHINE CME-750	DRILLER: G. Bray/T. Ellerson	HAMMER (ID) 140 lb. Auto (263048)
DATE STARTED 11/29/07	COMPLETED 12/1/07	CASING DEPTH: N/A	BITS USED: 2 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-88.2					Continued from previous page				
-89.9	170.0								Clayey SAND (SC), light gray (10YR7/2), very dense, moist, fine grained, little fines, strong HCl reaction, carbonate nodules *(continued)* 170.0ft: very firm, iron staining
		10	11	11	22	SS-30			
-99.9	180.0								-99.9 FAT CLAY (CH), light brownish gray (10YR6/2), very stiff, moist, little sand, strong HCl reaction 180.0
		9	8	11	19	SS-31			
-109.9	190.0								-109.9 Clayey SAND (SC), gray (10YR6/1), dense, moist, fine grained, little to some fines, strong HCl reaction 190.0
		12	13	19	32	SS-32			
-119.9	200.0								-119.9 Sandy FAT CLAY (CH), light brownish gray (10YR6/2), very stiff, moist, some sand, strong HCl reaction 200.0
		6	6	10	16	SS-33			
									-121.4 Boring Terminated at Elevation -121.4 ft 201.5

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPK Date 6-12-08
Checked By KAW Date 7.10.08

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
79.5					Ground Surface				
79.5	0.0	2	3	3	6	SS-1			FAT CLAY (CH), black (2.5/N), firm to stiff, moist, no sand, no HCl reaction
76.0	3.5	2	5	8	13	SS-2			
73.5	6.0	6	8	10	18	SS-3			FAT CLAY with sand (CH), greenish gray (10Y5/1), very stiff, moist, little sand, strong to weak HCl reaction
71.0	8.5	6	12	14	26	SS-4			8.5ft: light gray (5Y7/1), weak HCl reaction
68.5	11.0	7	11	14	25	SS-5			11.0ft: light gray (5Y7/1)
66.0	13.5	5	8	10	18	SS-6			
61.0	18.5	6	7	10	17	SS-7			18.5ft: light gray (5Y7/1), to brownish yellow (10YR6/6), few sand, black nodules
56.0	23.5	4	7	10	17	SS-8			FAT CLAY (CH), mottled light gray (5Y7/1), and brownish yellow (10YR6/6), very stiff, moist, weak HCl reaction
51.0	28.5	5	8	11	19	SS-9			
46.0	33.5	5	8	10	18	SS-10			
41.0	38.5	12	23	27	50	SS-11			38.5ft: white (2.5Y8/1), hard, little sand
36.0	43.5	11	16	19	35	SS-12			Sandy LEAN CLAY (CH), light yellowish brown (10YR6/4), hard, moist, some sand, weak HCl reaction
31.0	48.5	9	21	15	36	SS-13			Silty SAND (SM), yellow (10YR7/6), dense to firm, moist, fine grained, few fines, weak to no HCl reaction
26.0	53.5	5	9	10	19	SS-14			

79.5 — 0.0
73.5 — 6.0
56.0 — 23.5
36.0 — 43.5
31.0 — 48.5

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST A. Taylor
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
23.4					Continued from previous page				
21.0	58.5								Silty SAND (SM), yellow (10YR7/6), dense to firm, moist, fine grained, few fines, weak to no HCl reaction *(continued)* — 21.0 / 58.5
16.0	63.5	9	14	13	27	SS-15			POORLY GRADED SAND (SP), light gray (2.5Y7/2), very firm, moist, fine grained, no fines, weak HCl reaction — 16.0 / 63.5
11.0	68.5	4	12	15	27	SS-16			Clayey SAND (SC), light gray (2.5Y7/2), very firm, moist, fine grained, some fines, weak HCl reaction — 11.0 / 68.5
6.0	73.5	9	13	15	28	SS-17			Sandy FAT CLAY (CH), pale yellow (2.5Y7/30, very stiff, moist, fine to medium grained, some sand, weak to no HCl reaction
1.0	78.5	7	10	12	22	SS-18			
-4.0	83.5	5	8	10	18	SS-19			78.5ft: light gray (2.5Y7/2)
-9.0	88.5	23	15	21	36	SS-20			83.5ft: hard, carbonate nodules, strong HCl reaction
-14.0	93.5	13	28	45	73	SS-21			-9.0 / 88.5 — Clayey SAND (SC), light gray (2.5Y7/2), very dense, moist, fine to coarse grained, few fines, strong HCl reaction
-19.0	98.5	10	50/0.4		60/0.9	SS-22			93.5ft: very pale brown (10YR7/4), no HCl reaction
-29.0	108.5	37	50/0.5		87/1.0	SS-23			-29.0 / 108.5
		5	8	10	18	SS-24			FAT CLAY (CH), pale yellow (5Y8/2), and yellowish brown (10YR5/8), very stiff, moist, no sand, black staining, weak HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-32.7					Continued from previous page				
									FAT CLAY (CH), pale yellow (5Y8/2), and yellowish brown (10YR5/8), very stiff, moist, no sand, black staining, weak HCl reaction *(continued)*
-39.0	118.5								-39.0 — 118.5
		5	9	13	22	SS-25			LEAN CLAY (CL), pale yellow (5Y8/2), very stiff, moist, no sand, black staining, no HCl reaction
-49.0	128.5								-49.0 — 128.5
		9	13	15	28	SS-26			FAT CLAY (CH), pale yellow (5Y8/2), very stiff, moist, no sand, black staining, carbonate nodules, strong HCl reaction
-59.0	138.5								
		5	11	14	25	SS-27			138.5ft: mottled yellowish brown (10YR5/8), interbedded sand layer
-69.0	148.5								
		8	10	10	20	SS-28A/B			148.6 to 150ft: interbedded layer of SAND (SP), light yellowish brown (2.5Y6/4), fine grained, no HCl reaction
-79.0	158.5								
		8	12	16	28	SS-29			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-88.8					Continued from previous page				
-89.0	168.5	16	21	19	40	SS-30			Clayey SAND (SC), white (5Y8/1), dense, moist, fine to coarse grained, little fines, weak to strong HCl reaction
-99.0	178.5	50/0.4			50/0.4	SS-31			178.5ft: very dense
-109.0	188.5	31	50/0.4		81/0.9	SS-32			POORLY GRADED SAND (SP), PALE YELLOW (2.5Y8/2), very dense, wet, weak HCl reaction
-119.0	198.5	9	40	50/0.4	90/0.9	SS-33			Clayey SAND (SC), very dense, moist, fine to medium grained sand, strong HCl reaction, carbonate nodules (visual)
-129.0	208.5	35	44	27	71	SS-34			208.5ft: no recovery
-134.0	213.5	9	15	26	41	SS-35			FAT CLAY with sand (CH), pale yellow (2.5Y8/2), hard, moist, fine to medium grained sand, weak HCl reaction, organics
-139.0	218.5	7	15	23	38	SS-36			218.5ft: carbonate nodules

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-144.9					Continued from previous page				
									FAT CLAY with sand (CH), pale yellow (2.5Y8/2), hard, moist, fine to medium grained sand, weak HCl reaction, organics *(continued)*
-149.0	228.5								
		15	17	19	36	SS-37			228.5ft: mottled yellow (2.5Y7/6), strong HCl reaction
-159.0	238.5								-159.0 — 238.5
		22	38	36	74	SS-38			LEAN CLAY with sand (CL), pale yellow (2.5Y8/2), hard, moist, fine to medium grained sand, carbonate nodules
-169.0	248.5								-169.0 — 248.5
		13	21	31	52	SS-39			LEAN CLAY (CL), pale yellow (2.5Y8/2), hard, moist, fine to medium grained sand, organics
									-173.5 — 253.0
									POORLY GRADED SAND with clay (SP-SC), pale yellow (2.5Y8/3), very dense, moist, fine to medium grained, weak HCl reaction (visual)
-179.0	258.5								
		28	50/0.4		78/0.9	SS-40			
									-186.5 — 266.0
									Clayey SAND (SC), pale yellow (2.5Y8/3), very dense, moist, fine to medium grained sand, carbonate nodules, no HCl reaction
-189.0	268.5								
		14	26	39	65	SS-41			
-199.0	278.5								
		11	27	24	51	SS-42			278.5ft: white (5Y8/1) (visual)

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-201.0					Continued from previous page				
									Clayey SAND (SC), pale yellow (2.5Y8/3), very dense, moist, fine to medium grained sand, carbonate nodules, no HCl reaction *(continued)*
									-204.5 — 284.0
									FAT CLAY (CH), mottled pale yellow (2.5Y8/2), and yellow (10YR7/8), hard, moist, fine to medium grained sand, strong HCl reaction, organics
-209.0	288.5								
		12	25	31	56	SS-43			
-219.0	298.5								
		10	21	27	48	SS-44			298.5ft: to reddish yellow (5Y8/2)
-229.0	308.5								
		11	21	30	51	SS-45			-229.0 — 308.5 LEAN CLAY (CL), mottled pale yellow (2.5Y8/2), and reddish yellow (5YR6/6), hard, moist, strong HCl reaction (visual)
-239.0	318.5								
		10	16	20	36	SS-46			318.5ft: no recovery
									-246.5 — 326.0 Silty SAND (SM), light gray (5Y7/1), very dense, moist, fine to medium grained sand, strong HCl reaction (visual)
-249.0	328.5								
		32	50/0.4		82/0.9	SS-47			
									-254.5 — 334.0 FAT CLAY (CH), mottled light yellowish brown (10YR6/4), and pale yellow (5Y8/2), hard, moist, fine to medium grained sand, strong HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Taylor	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-257.1					Continued from previous page				
-259.0	338.5								FAT CLAY (CH), mottled light yellowish brown (10YR6/4), and pale yellow (5Y8/2), hard, moist, fine to medium grained sand, strong HCl reaction *(continued)*
		6	13	18	31	SS-48			
-269.0	348.5								
		10	17	22	39	SS-49			348.5ft: brownish yellow (10YR6/6)
-275.5									355.0
									Clayey SAND (SC), pale yellow (2.5Y8/3), very dense, moist, fine to medium grained sand, strong HCl reaction (visual)
-279.0	358.5								
		50/0.4			50/0.4	SS-50			
-284.5									364.0
									FAT CLAY with sand (CH), mottled brownish yellow (10YR6/6), and pale yellow (2.5Y8/20, hard, moist, fine to medium grained sand, black staining, strong HCl reaction
-289.0	368.5								
		7	11	21	32	SS-51			
-299.0	378.5								
-299.0									378.5
		10	18	21	39	SS-52			FAT CLAY (CH), very pale brown (10YR8/2), hard, moist, fine to medium grained sand
-309.0	388.5								
		8	17	23	40	SS-53			388.5ft: light gray (5Y7/2)

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST A. Taylor
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2169	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,350 US ft (NAD83)	EASTING 2,599,938 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/F. Cierra	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 12/12/07	COMPLETED 12/19/07	CASING DEPTH: N/A	BITS USED: 4 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-313.2					Continued from previous page				
									FAT CLAY (CH), very pale brown (10YR8/2), hard, moist, fine to medium grained sand *(continued)*
-319.0	398.5								
		11	22	28	50	SS-54			398.5ft: pale yellow (5Y8/2)
									-320.5 400.0
									Boring Terminated at Elevation -320.5 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPK Date 6-12-08

Checked By KAW Date 7.10.08

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2170	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,414 US ft (NAD83)	EASTING 2,599,990 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/12/07	COMPLETED 12/16/07	CASING DEPTH: N/A	BITS USED: 4" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
79.7					Ground Surface				79.7 — 0.0
79.7	0.0					SS-1			NOTE: Standard penetration tests performed for this boring not valid due to use of nonconforming drill rod. Boring redrilled at offset location as B-2170R. Strata depicted on this boring adapted from B-2170R.
76.2	3.5					SS-2			76.2 — 3.5 Sandy LEAN CLAY (CL), very dark gray (2.5Y3/1), moist, fine to medium grained sand, no HCl reaction, roots
73.7	6.0					SS-3			73.7 — 6.0 FAT CLAY (CH), gray (10YR5/1), moist, fine to medium grained sand, no HCl reaction, trace carbonate nodules
71.2	8.5					SS-4			71.2 — 8.5 FAT CLAY with sand (CH),6.0ft: light brownish gray (10YR6/2), mottled brown (7.5YR5/2), moist, fine to medium grained sand, carbonate nodules, organics
68.7	11.0					SS-5			LEAN CLAY with sand (CL), very pale brown (10YR7/3), moist, fine to medium grained sand, strong HCl reaction, ferrous staining
66.2	13.5					SS-6			66.2 — 13.5 FAT CLAY with sand (CH), light gray (10YR7/2), mottled brownish yellow (10YR7/8), moist, fine to coarse grained sand, fine gravel, carbonate nodules, strong HCl reaction
61.2	18.5					SS-7			18.5ft: very pale brown (10YR7/3), weak HCl reaction
56.2	23.5					SS-8			56.2 — 23.5 FAT CLAY (CH), very pale brown (10YR8/2), mottled yellow (10YR7/8), moist, fine to medium grained sand, strong HCl reaction, organics
51.2	28.5					SS-9			28.5ft: yellow (10YR7/8), mottled light greenish gray (10Y8/1), weak HCl reaction, trace carbonate nodules
46.2	33.5					SS-10			
41.2	38.5					SS-11			41.2 — 38.5 FAT CLAY with sand (CH), yellow (10YR7/8), mottled light greenish gray (10Y8/1), moist, fine to medium grained, sand, weak HCl reaction, organics
36.2	43.5					SS-12			36.2 — 43.5 Clayey SAND (SC), brownish yellow (10YR6/6), moist, fine to medium grained, carbonate nodules, strong HCl reaction
31.2	48.5					SS-13			31.2 — 48.5 Sandy LEAN CLAY (CL), yellow (10YR7/8), moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
26.2	53.5					SS-14			26.2 — 53.5 Sandy silty CLAY (CL-ML), very pale brown (10YR7/3), fine to medium grained sand, no HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2170	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,414 US ft (NAD83)	EASTING 2,599,990 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/12/07	COMPLETED 12/16/07	CASING DEPTH: N/A	BITS USED: 4" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
23.6					Continued from previous page				
21.2	58.5								Sandy silty CLAY (CL-ML), very pale brown (10YR7/3), fine to medium grained sand, no HCl reaction *(continued)*
						SS-15			21.2 — 58.5 FAT CLAY with sand (CH), pale brown (10YR6/3), moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction, organics, ferrous staining
16.2	63.5								16.2 — 63.5
						SS-16			FAT CLAY (CH), pale brown (10YR6/3), moist, fine to medium grained sand, carbonate nodules, weak Hcl reaction, organics
11.2	68.5								11.2 — 68.5
						SS-17			LEAN CLAY (CL), very pale brown (10YR7/3), moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
6.2	73.5								6.2 — 73.5
						SS-18			Sandy LEAN CLAY (CL), very pale brown (10YR7/3), moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
									3.2 — 76.5
1.2	78.5					SS-19			Silty clayey SAND (SC-SM), light gray (10YR7/2), moist, fine to coarse grained, no HCl reaction, trace carbonate nodules, no HCl reaction
-3.8	83.5								-3.8 — 83.5
						SS-20			Sandy LEAN CLAY (CL), very pale brown (10YR8/2), moist, fine to medium grained sand, strong HCl reaction, carbonate nodules, ferrous staining
-8.8	88.5					SS-21			
-13.8	93.5					SS-22			-13.3 — 93.0 Clayey SAND (SC), very pale brown (10YR7/4), wet, fine to medium grained, strong HCl reaction (visual)
-15.8	95.5					SS-23			
-18.8	98.5					SS-24			
-23.8	103.5					SS-25			-23.8 — 103.5 Silty SAND (SM), very pale brown (10YR7/4), moist to wet, fine to coarse grained, fine gravel, strong HCl reaction
-28.8	108.5					SS-26			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2170	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,414 US ft (NAD83)	EASTING 2,599,990 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/12/07	COMPLETED 12/16/07	CASING DEPTH: N/A	BITS USED: 4" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-32.5					Continued from previous page				
									-33.8 — 113.5: FAT CLAY (CH), light gray (10YR7/2), mottled brownish yellow (10YR6/6), moist, fine to medium grained sand, weak HCl reaction, organics, trace carbonate nodules
-38.8	118.5					SS-27			
									-43.8 — 123.5: FAT CLAY with sand (CH), light gray (10YR7/2), moist, fine to medium grained sand, carbonate nodules, weak HCl reaction, ferrous staining
-48.8	128.5					SS-28			
									-53.8 — 133.5: FAT CLAY (CH), very pale brown (10YR8/2), moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction
-58.8	138.5					SS-29			
-68.8	148.5					SS-30			
									-73.8 — 153.5: LEAN CLAY (CL), greenish gray (10Y6/1), moist, fine grained sand, carbonate nodules, strong HCl reaction
-78.8	158.5					SS-31			
									-83.8 — 163.5: POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR7/3), and light gray (2.5Y7/2), wet, fine to medium grained, strong HCl reaction (visual)

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2170	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,414 US ft (NAD83)	EASTING 2,599,990 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/12/07	COMPLETED 12/16/07	CASING DEPTH: N/A	BITS USED: 4" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-88.6					Continued from previous page				
-88.8	168.5					SS-32			POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR7/3), and light gray (2.5Y7/2), wet, fine to medium grained, strong HCl reaction (visual) *(continued)*
-93.8									Clayey SAND (SC), light gray (2.5Y7/2), wet, fine to medium grained, strong HCl reaction (visual) — 173.5
-98.8	178.5					SS-33			183.5ft: carbonate nodules
-108.8	188.5					SS-34			
-113.8	193.5					SS-35			193.5ft: fine to coarse grained
-117.3									Sandy LEAN CLAY (CL), gray (10YR6/1), moist, fine to medium grained sand, carbonate nodules, strong HCl reaction — 197.0
-118.8	198.5					SS-36A/B			
-119.9									198.5ft: split sample: SS-36A from 198.5-199.6ft and SS-36B from 199.6-200ft — 199.6
-123.3									LEAN CLAY with sand (CL), greenish gray (10Y6/1), moist, fine to medium grained sand, carbonate nodules, strong HCl reaction — 203.0
									FAT CLAY with sand (CH), light gray (10YR7/2), fine to medium grained sand, no HCl reaction, ferrous staining, trace organics
-138.8	218.5					SS-37			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2170	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,414 US ft (NAD83)	EASTING 2,599,990 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/12/07	COMPLETED 12/16/07	CASING DEPTH: N/A	BITS USED: 4" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-144.7					Continued from previous page				
									FAT CLAY with sand (CH), light gray (10YR7/2), fine to medium grained sand, no HCl reaction, ferrous staining, trace organics *(continued)*
									228.5ft: hard, strong HCl reaction, trace carbonate nodules
-158.8	238.5								-158.8 — 238.5
						SS-38			LEAN CLAY with sand (CL), light greenish gray (10Y8/1), moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction, ferrous stains, organics
-178.8	258.5								-178.8 — 258.5
						SS-39			POORLY GRADED SAND with silt (SP-SM), light gray (10YR6/3), moist, fine to medium grained, weak HCl reaction (visual)
									-188.8 — 268.5
									Sandy LEAN CLAY (CL), light gray (10YR7/2), moist, fine to medium grained sand, ferrous staining, organics, no HCl reaction, 0.3'-thick sand lense
-198.8	278.5								
						SS-40			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2170	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,414 US ft (NAD83)	EASTING 2,599,990 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/12/07	COMPLETED 12/16/07	CASING DEPTH: N/A	BITS USED: 4" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-200.8					Continued from previous page				
									Sandy LEAN CLAY (CL), light gray (10YR7/2), moist, fine to medium grained sand, ferrous staining, organics, no HCl reaction, 0.3'-thick sand lense *(continued)*
-208.8	288.5								-208.8 288.5
						SS-41			FAT CLAY (CH), very pale brown (10YR8/2), moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction, ferrous staining
-218.8	298.5					SS-42			298.5ft: very pale brown (10YR7/3)
									-220.3 300.0
									Boring Terminated at Elevation -220.3 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPZ Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 6

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-2170R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.2 ft (NAVD88)	NORTHING 13,412,396 US ft (NAD83)	EASTING 2,599,989 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-55 LC	DRILLER: D. White/O. Smith	HAMMER (ID) 140 lb. Auto (MEC 02)
DATE STARTED 1/3/08	COMPLETED 1/7/08	CASING DEPTH: N/A	BITS USED: 3 7/8" Wing Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
79.2					Ground Surface				
79.2	0.0	6	4	5	9	SS-1			Sandy LEAN CLAY (CL), very dark gray (2.5Y3/1), stiff, moist, fine to medium grained sand, no HCl reaction, roots
75.7	3.5	2	3	3	6	SS-2			FAT CLAY (CH), gray (10YR5/1), firm, moist, fine to medium grained sand, no HCl reaction, trace carbonate nodules
73.2	6.0	6	7	8	15	SS-3			FAT CLAY with sand (CH),6.0ft: light brownish gray (10YR6/2), mottled brown (7.5YR5/2), stiff, moist, fine to medium grained sand, carbonate nodules, organics
70.7	8.5	7	8	9	17	SS-4			LEAN CLAY with sand (CL), very pale brown (10YR7/3), very stiff, moist, fine to medium grained sand, strong HCl reaction, ferrous staining 11.0ft: stiff
68.2	11.0	8	7	8	15	SS-5			
65.7	13.5	6	7	8	15	SS-6			FAT CLAY with sand (CH), light gray (10YR7/2), mottled brownish yellow (10YR7/8), stiff, moist, fine to coarse grained sand, fine gravel, carbonate nodules, strong HCl reaction
60.7	18.5	6	8	9	17	SS-7			18.5ft: very pale brown (10YR7/3), very stiff, weak HCl reaction
55.7	23.5	5	6	7	13	SS-8			FAT CLAY (CH), very pale brown (10YR8/2), mottled yellow (10YR7/8), stiff, moist, fine to medium grained sand, strong HCl reaction, organics
50.7	28.5	5	11	9	20	SS-9			28.5ft: yellow (10YR7/8), mottled light greenish gray (10Y8/1), very stiff, weak HCl reaction, trace carbonate nodules
45.7	33.5	5	5	6	11	SS-10			33.5ft: stiff
40.7	38.5	6	8	11	19	SS-11			FAT CLAY with sand (CH), yellow (10YR7/8), mottled light greenish gray (10Y8/1), very stiff, moist, fine to medium grained, sand, weak HCl reaction, organics
35.7	43.5	28	32	28	60	SS-12			Clayey SAND (SC), brownish yellow (10YR6/6), very dense, moist, fine to medium grained, carbonate nodules, strong HCl reaction
30.7	48.5	10	19	18	37	SS-13			Sandy LEAN CLAY (CL), yellow (10YR7/8), hard, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
25.7	53.5	11	13	19	32	SS-14			Sandy silty CLAY (CL-ML), very pale brown (10YR7/3), hard, fine to medium grained sand, no HCl reaction

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

MACTEC

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-2170R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.2 ft (NAVD88)	NORTHING 13,412,396 US ft (NAD83)	EASTING 2,599,989 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-55 LC	DRILLER: D. White/O. Smith	HAMMER (ID) 140 lb. Auto (MEC 02)
DATE STARTED 1/3/08	COMPLETED 1/7/08	CASING DEPTH: N/A	BITS USED: 3 7/8" Wing Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
23.1					Continued from previous page				
20.7	58.5								Sandy silty CLAY (CL-ML), very pale brown (10YR7/3), hard, fine to medium grained sand, no HCl reaction *(continued)*
		7	8	10	18	SS-15			FAT CLAY with sand (CH), pale brown (10YR6/3), very stiff, moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction, organics, ferrous staining
15.7	63.5								
		6	8	10	18	SS-16			FAT CLAY (CH), pale brown (10YR6/3), very stiff, moist, fine to medium grained sand, carbonate nodules, weak Hcl reaction, organics
10.7	68.5								
		10	14	14	28	SS-17			LEAN CLAY (CL), very pale brown (10YR7/3), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
5.7	73.5								
		9	14	12	26	SS-18			Sandy LEAN CLAY (CL), very pale brown (10YR7/3), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
2.7	76.5								Silty clayey SAND (SC-SM), light gray (10YR7/2), very firm, moist, fine to coarse grained, no HCl reaction, trace carbonate nodules, no HCl reaction
0.7	78.5								
		11	13	15	28	SS-19			
-4.3	83.5								
		22	22	26	48	SS-20			Sandy LEAN CLAY (CL), very pale brown (10YR8/2), hard, moist, fine to medium grained sand, strong HCl reaction, carbonate nodules, ferrous staining
-9.3	88.5								
		50/0.3			50/0.3	SS-21			
-13.8	93.0								Clayey SAND (SC), very pale brown (10YR7/4), very dense, wet, fine to medium grained, strong HCl reaction (visual)
-14.3	93.5								
		50/0.1			50/0.1	SS-22			
-19.3	98.5								
		50/0.5			50/0.5	SS-23			
-24.3	103.5								Silty SAND (SM), very pale brown (10YR7/4), very dense, moist to wet, fine to coarse grained, fine gravel, strong HCl reaction
		30	41	37	78	SS-24			

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