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
-33.0					Continued from previous page				
-34.3	113.5								
		6	7	10	17	SS-25			-34.3 / 113.5 FAT CLAY (CH), light gray (10YR7/2), mottled brownish yellow (10YR6/6), very stiff, moist, fine to medium grained sand, weak HCl reaction, organics, trace carbonate nodules
-44.3	123.5								
		7	9	10	19	SS-26			-44.3 / 123.5 FAT CLAY with sand (CH), light gray (10YR7/2), very stiff, moist, fine to medium grained sand, carbonate nodules, weak HCl reaction, ferrous staining
-54.3	133.5								
		9	9	13	22	SS-27			-54.3 / 133.5 FAT CLAY (CH), very pale brown (10YR8/2), very stiff, moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction
-64.3	143.5								
		6	12	11	23	SS-28			
-74.3	153.5								
		7	21	40	61	SS-29			-74.3 / 153.5 POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR7/3), very dense, wet, fine to medium grained, strong HCl reaction (visual)
-84.3	163.5								
		30	36	44	80	SS-30			163.5: light gray (2.5Y7/2) (visual)

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
-89.1					Continued from previous page				
-94.3	173.5								POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR7/3), very dense, wet, fine to medium grained, strong HCl reaction (visual) *(continued)*
		40	41	45	86	SS-31			Clayey SAND (SC), light gray (2.5Y7/2), very dense, wet, fine to medium grained, strong HCl reaction (visual)
-104.3	183.5								
		34	46	50/0.3	96/0.3	SS-32			183.5ft: carbonate nodules
-114.3	193.5								
		32	44	37	81	SS-33			193.5ft: fine to coarse grained
-123.8	203.0								FAT CLAY with sand (CH), light gray (10YR7/2), very stiff, moist, fine to medium grained sand, no HCl reaction, ferrous staining, trace organics
-129.3	208.5								
		15	17	10	27	SS-34			

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
-145.2					Continued from previous page				
									FAT CLAY with sand (CH), light gray (10YR7/2), very stiff, moist, fine to medium grained sand, no HCl reaction, ferrous staining, trace organics *(continued)*
-149.3	228.5								
		11	14	18	32	SS-35			228.5ft: hard, strong HCl reaction, trace carbonate nodules
-169.3	248.5								-169.3 — 248.5
		22	28	30	58	SS-36			LEAN CLAY with sand (CL), light greenish gray (10Y8/1), hard, moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction, ferrous stains, organics
-189.3	268.5								-189.3 — 268.5
		14	40	50/0.3	90/0.8	SS-37			Sandy LEAN CLAY (CL), light gray (10YR7/2), hard, moist, fine to medium grained sand, ferrous staining, organics, no HCl reaction, 0.3'-thick sand lense

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
-201.3					Continued from previous page				
									Sandy LEAN CLAY (CL), light gray (10YR7/2), hard, moist, fine to medium grained sand, ferrous staining, organics, no HCl reaction, 0.3'-thick sand lense *(continued)*
-209.3	288.5								-209.3 288.5
		14	20	27	47	SS-38			FAT CLAY (CH), very pale brown (10YR8/2), hard, moist, fine to medium grained sand, trace carbonate nodules, strong HCl reaction, ferrous staining
-219.3	298.5								
		17	24	26	50	SS-39			298.5ft: very pale brown (10YR7/3)
									-220.8 300.0
									Boring Terminated at Elevation -220.8 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPH Date 6-12-08
Checked By KAW Date 7-10-08

SHEET 1 OF 2

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-2171	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,488 US ft (NAD83)	EASTING 2,600,093 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 81.5 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/17/07	COMPLETED 12/18/07	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
80.0					Ground Surface				80.0 / 0.0
80.0	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-2171R. Strata depicted on this boring adapted from B-2171R. FAT CLAY (CH), black (2.5/N), moist, trace sand, carbonate nodules, no HCl reaction
76.5	3.5					SS-2			3.5ft: greenish gray (10Y6/1 and 10Y5/1)
74.0	6.0					SS-3			6.0ft: yellowish brown stains, strong HCl reaction
71.5	8.5					SS-4			
69.0	11.0					SS-5			
66.5	13.5					SS-6			13.5ft: no HCl reaction
61.5	18.5					SS-7			18.5ft: light greenish gray (10YR7/1), weak HCl reaction
56.5	23.5					SS-8			23.5ft: yellowish brown (10YR5/6), mottled light greenish gray (10YR7/1), no HCl reaction
51.5	28.5					SS-9			
46.5	33.5					SS-10			
41.5	38.5					SS-11			38.5ft: greenish gray (10YR6/1), mottled yellowish brown (10YR5/6), strong HCl reaction
36.5	43.5					SS-12			36.5 / 43.5: Silty SAND (SM), greenish gray (10Y6/1), mottled light yellowish brown (10YR6/4), moist, little fines, strong HCl reaction
35.5	44.5								FAT CLAY (CH), greenish gray (10Y6/1), mottled light yellowish brown (10YR6/4), moist, few sand, trace carbonate nodules, weak HCl reaction
31.5	48.5					SS-13			30.8 / 49.2: POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), mottled greenish gray (10Y6/1), moist, few fines, trace carbonate nodules, strong HCl reaction
26.5	53.5					SS-14			26.0 / 54.0: FAT CLAY with sand (CH), greenish gray (10Y6/1), moist, little sand, carbonate nodules, yellow brown stains, 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-2171	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,488 US ft (NAD83)	EASTING 2,600,093 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 81.5 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/17/07	COMPLETED 12/18/07	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
23.9					Continued from previous page				
21.5	58.5					SS-15			FAT CLAY with sand (CH), greenish gray (10Y6/1), moist, little sand, carbonate nodules, yellow brown stains, no HCl reaction *(continued)*
16.5	63.5					SS-16			63.5ft: brown (10YR5/3), mottled greenish gray (10Y6/1), trace sand
11.5	68.5					SS-17			68.5ft: grayish brown (10YR5/2)
6.0	74.0					SS-18			
3.0	77.0					SS-19			77.0ft: light gray (10YR7/1)
1.5	78.5								Clayey SAND (SC), greenish gray (10Y6/1), moist, little fines, trace yellowish brown nodules and carbonate nodules, no HCl reaction
0.0	80.0					SS20			
-1.5	81.5								Boring Terminated at Elevation -1.5 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JDH Date 6.12-08

Checked By ILAW Date 7.10.08

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST A. Osorio/J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2171R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,480 US ft (NAD83)	EASTING 2,600,074 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: Nalls/Turner/Bray/Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/19/07	COMPLETED 1/4/08	CASING DEPTH: 7.7 ft	BITS USED: 4" Roller Cone

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
80.0					Ground Surface				80.0 / 0.0
80.0	0.0	2	3	3	6	SS-1			FAT CLAY (CH), black (2.5/N), firm, moist, few sand, no HCl reaction, grass and roots
76.5	3.5	2	6	8	14	SS-2			3.5ft: dark gray (4/N), stiff, trace carbonate nodules
74.0	6.0	3	10	13	23	SS-3			6.0ft: greenish gray (10Y6/1), very stiff, yellowish brown staining
71.5	8.5	12	20	30	50	SS-4			8.5ft: hard, weak HCl reaction
69.0	11.0	10	13	16	29	SS-5			11.0ft: gray (10YR6/1), very stiff, strong HCl reaction, trace black nodules
66.5	13.5	5	9	10	19	SS-6			13.5ft: greenish gray (10Y6/1), no HCl reaction, black and yellowish brown stains
61.5	18.5	5	6	8	14	SS-7			18.5ft: stiff
56.5	23.5	4	6	8	14	SS-8			23.5ft: yellowish brown (10YR5/6), mottled greenish gray (10Y6/1)
51.5	28.5	6	5	9	14	SS-9			28.5ft: black stains
46.5	33.5	5	8	11	19	SS-10			33.5ft: very stiff
41.5	38.5	5	7	11	18	SS-11			38.5ft: greenish gray (10Y6/1), mottled light yellowish brown (10YR6/4), weak HCl reaction
36.5	43.5	7	12	17	29	SS-12A/B			36.5 / 43.5; 35.5 / 44.5: Silty SAND (SM), greenish gray (10Y6/1), mottled light yellowish brown (10YR6/4), very firm, moist, little fines, strong HCl reaction; FAT CLAY (CH), greenish gray (10Y6/1), mottled light yellowish brown (10YR6/4), very stiff, moist, few sand, trace carbonate nodules, weak HCl reaction
31.5	48.5	9	13	21	34	SS-13A/B			30.8 / 49.2: POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), mottled greenish gray (10Y6/1), dense, moist, few fines, trace carbonate nodules, strong HCl reaction
26.5	53.5	18	17	18	35	SS-14A/B			26.0 / 54.0: FAT CLAY (CH), light yellowish brown (10YR6/4), hard, moist, few 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. Osorio/J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2171R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,480 US ft (NAD83)	EASTING 2,600,074 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: Nalls/Turner/Bray/Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/19/07	COMPLETED 1/4/08	CASING DEPTH: 7.7 ft	BITS USED: 4" Roller Cone

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
23.9					Continued from previous page				
21.5	58.5								FAT CLAY (CH), light yellowish brown (10YR6/4), hard, moist, few sand, strong HCl reaction *(continued)*
16.5	63.5	8	13	19	32	SS-15			58.5ft: gray (10YR6/1), trace carbonate nodules, black stains, no HCl reaction
11.5	68.5	8	10	13	23	SS-16			63.5ft: gray (10YR6/1), mottled light yellowish brown (10YR6/4), very stiff
6.5	73.5	5	9	13	22	SS-17			68.5ft: yellowish brown stains
1.5	78.5	7	9	14	23	SS-18			73.5ft: greenish gray (10Y6/1)
-3.5	83.5	8	9	12	21	SS-19			1.5 — 78.5: Clayey SAND (SC), greenish gray (10Y6/1), very firm, moist, little fines, trace yellowish brown nodules and carbonate nodules, no HCl reaction
-8.5	88.5	16	21	22	43	SS-20			-3.5 — 83.5: POORLY GRADED SAND with clay (SP-SC), greenish gray (10Y6/1), dense, moist, few fines, strong HCl reaction
-13.5	93.5	11	27	30	57	SS-21			-8.5 — 88.5: POORLY GRADED SAND (SP), greenish gray (10Y6/1), very dense, moist, few fines, trace carbonate nodules, no HCl reaction, trace yellowish brown stains
-18.5	98.5	23	47	50/0.2	97/0.7	SS-22			93.5ft: gray (10YR6/1), strong HCl reaction
-28.5	108.5	200/0.5			200/0.5	SS-23			98.5ft: light gray (10YR7/1), coarse grained, SPT overdriven to collect sample
		19	48	34	82	SS-24			108.5ft: gray (10YR6/1), medium to coarse grained

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio/J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2171R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,480 US ft (NAD83)	EASTING 2,600,074 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: Nalls/Turner/Bray/Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/19/07	COMPLETED 1/4/08	CASING DEPTH: 7.7 ft	BITS USED: 4" Roller Cone

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
-32.2					Continued from previous page				
									POORLY GRADED SAND (SP), greenish gray (10Y6/1), very dense, moist, few fines, trace carbonate nodules, no HCl reaction, trace yellowish brown stains *(continued)*
-38.5	118.5								-38.0 — 118.0
		6	7	14	21	SS-25			FAT CLAY (CH), light greenish gray (10Y7/1), very stiff, moist, few sand, trace carbonate nodules, black nodules, black stains, no HCl reaction
-48.5	128.5								
		7	11	14	25	SS-26			128.5ft: gray (10YR6/1), mottled yellowish brown (10YR5/6), trace carbonate nodules, weak HCl reaction
-58.5	138.5								
		6	8	12	20	SS-27			
									-65.0 — 145.0
									POORLY GRADED SAND (SP), gray (10YR6/1), dense, moist, few fines, fine to medium grained, trace carbonate nodules, strong HCl reaction
-68.5	148.5								
		31	26	17	43	SS-28A/B			-69.1 — 149.1
									FAT CLAY (CH), gray (10YR6/1), slightly mottled yellowish brown (10YR5/6), hard, moist, few sand, trace carbonate nodules, weak HCl reaction
-78.5	158.5								
		26	27	25	52	SS-29			158.5ft: greenish gray (10Y6/1), mottled yellowish brown (10YR5/8), black stains
									-86.0 — 166.0
									POORLY GRADED SAND (SP), light gray (10YR7/2), very dense, moist, medium grained, few fines, strong HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio/J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2171R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,480 US ft (NAD83)	EASTING 2,600,074 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: Nalls/Turner/Bray/Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/19/07	COMPLETED 1/4/08	CASING DEPTH: 7.7 ft	BITS USED: 4" Roller Cone

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
-88.3					Continued from previous page				
-88.5	168.5	25	30	50	80	SS-30			POORLY GRADED SAND (SP), light gray (10YR7/2), very dense, moist, medium grained, few fines, strong HCl reaction *(continued)*
-98.5	178.5	32	40	37	77	SS-31			178.5ft: yellow (10YR7/6), wet, trace fines
-108.5	188.5	38	50/0.4		88/0.3	SS-32			188.5ft: no recovery
-114.2	194.2	37	40	41	81	SS-33			194.2ft: pale brown (10YR6/3), fine grained
-119.2	199.2	23	28	27	55	SS-34			199.2ft: light gray (2.5Y7/2), few fines, some carbonate nodules
-139.2	219.2	3	9	14	23	SS-35			-139.2 219.2 FAT CLAY with sand (CH), light gray (2.5Y7/1), very stiff, moist, few 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/J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2171R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,480 US ft (NAD83)	EASTING 2,600,074 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: Nalls/Turner/Bray/Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/19/07	COMPLETED 1/4/08	CASING DEPTH: 7.7 ft	BITS USED: 4" Roller Cone

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
-144.4					Continued from previous page				
									FAT CLAY with sand (CH), light gray (2.5Y7/1), very stiff, moist, few sand, no HCl reaction *(continued)*
-159.2	239.2								
		19	26	37	63	SS-36			239.2ft: light gray (2.5Y7/1), and light yellowish brown (10YR6/4), hard, strong HCl reaction
									-175.0 — 255.0 POORLY GRADED SAND (SP), light gray (10YR7/1), very dense, moist, few fines, no HCl reaction
-178.5	258.5								
		29	38	42	80	SS-37			
									-190.0 — 270.0 FAT CLAY with sand (CH), light gray (10YR7/2), hard, moist, little sand, weak HCl reaction
-198.5	278.5								
		10	21	28	49	SS-38A/B			-198.9 — 278.9 Clayey SAND (SC), light gray (10YR7/2), dense, moist, little fines, weak HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio/J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2171R	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.0 ft (NAVD88)	NORTHING 13,412,480 US ft (NAD83)	EASTING 2,600,074 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: Nalls/Turner/Bray/Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/19/07	COMPLETED 1/4/08	CASING DEPTH: 7.7 ft	BITS USED: 4" Roller Cone

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
-200.5					Continued from previous page				
									Clayey SAND (SC), light gray (10YR7/2), dense, moist, little fines, weak HCl reaction *(continued)*
									-205.0 — 285.0
									FAT CLAY (CH), light greenish gray (10Y7/1), hard, moist, few sand, trace to few black and yellowish brown stains, strong HCl reaction
-218.5	298.5	10	17	23	●40	SS-39			-220.0 — 300.0
									Boring Terminated at Elevation -220.0 ft

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

MACTEC

GEOTECHNICAL BORING LOG

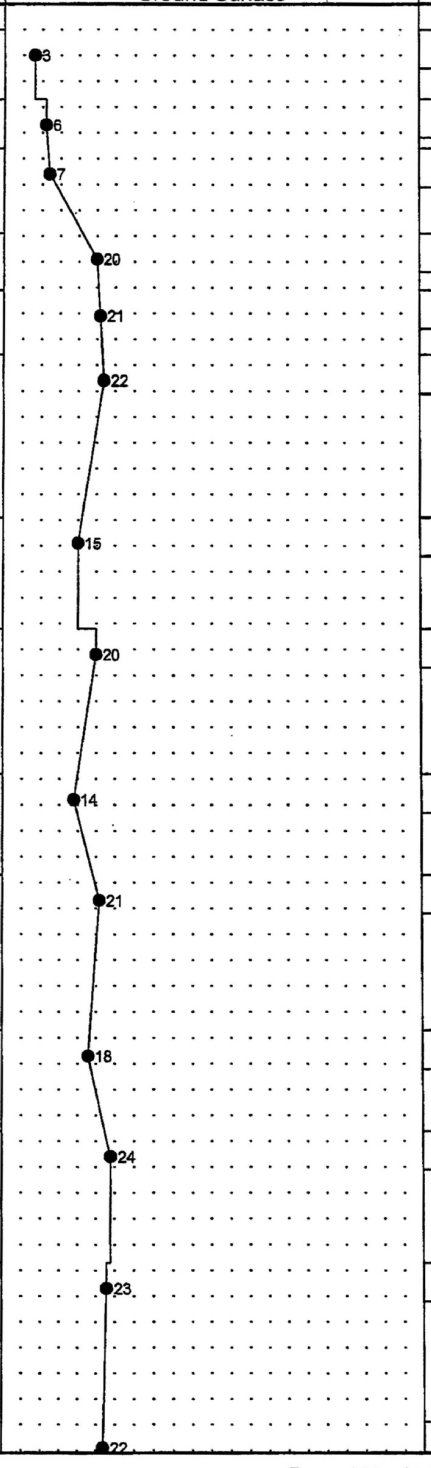
Prepared By WBO Date 6/16/08

Checked By KAW Date 7·10·08

SHEET 1 OF 2

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-2172	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,096 US ft (NAD83)	EASTING 2,599,830 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 100.0 ft	DRILL MACHINE CME-45	DRILLER: J. Warren/J. Alexander	HAMMER (ID) 140 lb. Auto (MEC 12)
DATE STARTED 11/15/07	COMPLETED 11/16/07	CASING DEPTH: N/A	BITS USED: 2 15/16" Roller Cone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	SAMP. NO.	SOIL AND ROCK DESCRIPTION
80.1						Ground Surface
79.1	1.0					80.1 — 0.0
		1	1	2	SS-1	FAT CLAY (CH), dark gray (10YR4/1), soft, moist, few to little sand, no HCl reaction
76.4	3.7					76.4 — 3.7
		1	2	4	SS-2	FAT CLAY with sand (CH), gray (5YR5/1), firm, moist, little sand, carbonate horizon at 4.9' to 5.4'
74.5	5.6					
		2	3	4	SS-3	5.6ft: gray (7.5YR5/1), mottled brown (7.5YR4/2), stiff, carbonate nodules, manganese stains
71.2	8.9					
		5	9	11	SS-4	8.9ft: light gray (10YR7/2), very stiff, ferrous nodules, black stains, strong HCl reaction
69.0	11.1					
		7	9	12	SS-5	11.1ft: light brownish gray (10YR6/2)
66.5	13.6					
		7	10	12	SS-6	13.6ft: light gray (10YR7/2), few sand
60.2	19.9					
		3	6	9	SS-7	19.4ft: stiff, little sand
55.9	24.2					55.9 — 24.2
		6	9	11	SS-8	FAT CLAY (CH), light gray (10YR7/2), mottled brownish yellow (10YR6/6), very stiff, moist, few to little sand, strong HCl reaction, carbonate and manganese nodules, ferrous staining
50.3	29.8					
		4	6	8	SS-9	29.8ft: light brown (7.5YR6/3), stiff
46.4	33.7					
		7	10	11	SS-10	33.7ft: light gray (10YR7/2), very stiff, few sand
40.4	39.7					
		7	7	11	SS-11	39.7ft: yellowish brown (10YR6/6), mottled light gray (10YR7/2)
36.5	43.6					
		6	10	14	SS-12	43.6ft: weak HCl reaction
31.4	48.7					31.4 — 48.7
		7	9	14	SS-13	FAT CLAY with sand (CH), light brown (7.5YR6/3), mottled yellowish brown (10YR5/6), very stiff, moist, little sand, weak HCl reaction, manganese and ferrous staining
25.2	54.9					
		9	11	11	SS-14	54.9ft: light reddish brown (5YR6/3), mottled reddish



EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/16/08

MACTEC

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-2172	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,096 US ft (NAD83)	EASTING 2,599,830 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 100.0 ft	DRILL MACHINE CME-45	DRILLER: J. Warren/J. Alexander	HAMMER (ID) 140 lb. Auto (MEC 12)
DATE STARTED 11/15/07	COMPLETED 11/16/07	CASING DEPTH: N/A	BITS USED: 2 15/16" Roller Cone

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				
21.5	58.6	7	8	13	21	SS-15			yellow (5YR6/6), few to little sand, no HCl reaction, carbonate nodules FAT CLAY with sand (CH), light brown (7.5YR6/3), mottled yellowish brown (10YR5/6), very stiff, moist, little sand, weak HCl reaction, manganese and ferrous staining *(continued)* 58.6ft: light brown (7.5YR6/3), mottled reddish yellow (5YR6/6), weak HCl reaction
16.5	63.6	7	10	10	20	SS-16			63.6ft: little sand, strong HCl reaction
11.4	68.7	7	10	10	20	SS-17			11.4 — 68.7 POORLY GRADED SAND (SP), gray (7.5YR6/1), firm, moist, trace fines, weak HCl reaction, carbonate horizon from 69.4-69.6ft
6.4	73.7	19	30	33	63	SS-18			73.7ft: pinkish gray (5YR6/2), very dense, wet, carbonate horizon from 74.6-74.8ft, strong HCl reaction
1.5	78.6	8	9	17	26	SS-19			78.6ft: light gray (10YR7/1), very firm, few fines, weak HCl reaction
-3.6	83.7	18	15	14	29	SS-20			Field reports do not indicate that SS-20 was split into separate jars -4.4 — 84.5 FAT CLAY with sand (CH), light gray (10YR7/1), very stiff, wet, little sand, ferrous staining, carbonate particles through out, strong HCl reaction
-7.6	87.7	18	36	50/0.3	86/0.8	SS-21A/B			-8.6 — 88.7 POORLY GRADED SAND (SP), pinkish gray (7.5YR7/2), very dense, wet, trace fines, carbonate deposit at 89.5ft, strong HCl reaction
-13.6	93.7	50/0.2			50/0.2	SS-22			-13.6 — 93.7 FAT CLAY (CH), light gray (10YR7/1), hard, moist, few to little sand, ferrous staining, carbonate deposits though out
-18.6	98.7	50/0.5			50/0.5	SS-23			-18.6 — 98.7 -19.9 — 100.0 WELL-GRADED SAND (SW), light brown (7.5YR6/3), very dense, wet, trace fines, ferrous staining, strong HCl reaction Boring Terminated at Elevation -19.9 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/16/08

MACTEC

GEOTECHNICAL BORING LOG

Prepared By [illegible] 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-2173	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,225 US ft (NAD83)	EASTING 2,599,945 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 12/11/07	COMPLETED 12/18/07	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
79.6					Ground Surface				79.6 / 0.0
79.6	0.0	3	4	5	9	SS-1			FAT CLAY with sand (CH), dark gray (2.5Y4/1), stiff, moist, little sand, no HCl reaction, organics, thinly laminated
76.1	3.5	7	5	7	12	SS-2			3.5ft: grayish brown (10YR5/2), strong HCl reaction, carbonate nodules, ferrous stains
73.6	6.0	6	7	9	16	SS-3			73.6 / 6.0 — LEAN CLAY with sand (CL), very pale brown (10YR7/3), very stiff, moist, little sand, strong HCl reaction, carbonate nodules, organics, ferrous staining
71.1	8.5	5	5	5	10	SS-4			8.5ft: light gray (10YR7/2), stiff
68.6	11.0	5	8	8	16	SS-5			11.5ft: very pale brown (10YR7/3), very stiff, weak HCl reaction
66.1	13.5	6	7	9	16	SS-6			61.1 / 18.5
61.1	18.5	5	6	8	14	SS-7			FAT CLAY (CH), yellow (10YR7/8), mottled light greenish gray (10Y8/1), stiff, moist, few to little sand, strong HCl reaction, organics, trace carbonate nodules
56.1	23.5	5	6	8	14	SS-8			
51.1	28.5	4	6	8	14	SS-9			
46.1	33.5	6	6	9	15	SS-10			41.1 / 38.5
41.1	38.5	19	15	19	34	SS-11			Clayey SAND (SC), light gray (10YR7/2), dense to very firm, moist, fine grained, some fines, strong HCl reaction, ferrous staining, carbonate nodules
36.1	43.5	8	12	11	23	SS-12			43.5ft: brownish yellow (10YR6/6), mottled very pale brown (10YR/3), wet
31.1	48.5	14	19	22	41	SS-13			48.5ft: yellow (10YR7/8), interbedded clay-rich seams
26.1	53.5	12	12	20	32	SS-14			53.5ft: very pale brown (10YR7/3), and brownish yellow (10YR6/8), 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-2173	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,225 US ft (NAD83)	EASTING 2,599,945 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 12/11/07	COMPLETED 12/18/07	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
23.5					Continued from previous page				
21.1	58.5								Clayey SAND (SC), light gray (10YR7/2), dense to very firm, moist, fine grained, some fines, strong HCl reaction, ferrous staining, carbonate nodules *(continued)* 58.5ft: brownish yellow (10YR6/6), mottled light gray (10YR7/2), firm, strong HCl reaction
		11	9	11	20	SS-15			
16.1	63.5								17.6 — 62.0 Sandy FAT CLAY (CH), brownish gray (10YR6/6), and very pale brown (10YR7/4), very stiff, some sand, no to strong HCl reaction, carbonate nodules, 0.4'-thick clay seam
		5	7	11	18	SS-16			
11.1	68.5								
		8	23	43	66	SS-17A/B			10.1 — 69.5 Clayey SAND (SC), reddish yellow (7.5YR6/6), very dense, wet, fine to coarse grained, little fines, strong HCl reaction, carbonate nodules
6.1	73.5								
		12	15	21	36	SS-18			73.5ft: very pale brown (10YR7/3), dense, some fines, no HCl reaction
1.1	78.5								
		6	11	15	26	SS-19			78.5ft: very firm
-3.9	83.5								-3.9 — 83.5 FAT CLAY with sand (CH), yellow (10YR7/8), mottled light greenish gray (10Y8/1), hard, moist, little sand, weak HCl reaction, carbonate nodules
		26	24	17	41	SS-20			
-8.9	88.5								
		40	50/0.3		90/0.8	SS-21			88.5ft: very pale brown (10YR8/2), strong HCl reaction, ferrous staining, trace organics
-13.9	93.5								-13.9 — 93.5 Clayey SAND (SC), light gray (10YR7/2), to very pale brown (10YR7/4), very dense, wet, fine grained, little fines, no HCl reaction, 0.3'-thick carbonate seam
		18	40	45	85	SS-22			-15.9 — 95.5 POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR8/4), very dense, wet, medium to coarse grained, few fines, strong HCl reaction
-18.9	98.5								
		50/0.5			50/0.5	SS-23			
-28.9	108.5								-25.4 — 105.0 FAT CLAY with sand (CH), brownish yellow (10YR6/6), mottled light greenish gray (10Y8/1), very stiff, moist, little sand, strong to weak HCl reaction, organics, carbonate nodules
		8	10	14	24	SS-24			

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-2173	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,225 US ft (NAD83)	EASTING 2,599,945 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 12/11/07	COMPLETED 12/18/07	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
-32.6					Continued from previous page				
									FAT CLAY with sand (CH), brownish yellow (10YR6/6), mottled light greenish gray (10Y8/1), very stiff, moist, little sand, strong to weak HCl reaction, organics, carbonate nodules *(continued)*
-38.9	118.5								
		4	9	12	21	SS-25			118.5ft: light gray (10YR7/2), trace ferrous staining
-48.9	128.5								-48.9 — 128.5
		16	17	20	37	SS-26			Sandy FAT CLAY (CH), very pale brown (10YR8/2), hard, moist, little to some sand, strong to weak HCl reaction, carbonate nodules, ferrous staining
-58.9	138.5								
		16	16	14	30	SS-27			138.5ft: very stiff
-68.9	148.5								148.5ft: light gray (10YR7/2), mottled brownish yellow (10YR6/8), interbedded clay seams
		5	7	9	16	SS-28			
-78.9	158.5								-78.9 — 158.5
		12	21	27	48	SS-29			Clayey SAND (SC), very pale brown (10YR7/3), mottled brownish gray (10YR6/6), dense, moist, fine grained, strong 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-2173	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,225 US ft (NAD83)	EASTING 2,599,945 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 12/11/07	COMPLETED 12/18/07	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
-88.7					Continued from previous page				
-88.9	168.5	28	21	24	45	SS-30			Clayey SAND (SC), very pale brown (10YR7/3), mottled brownish gray (10YR6/6), dense, moist, fine grained, strong HCl reaction *(continued)* 168.5ft: medium to coarse grained, carbonate nodules
-98.9	178.5	44	50/0.3		94/0.8	SS-31			178.5ft: very dense, little fines, little gravel
-103.9									POORLY GRADED SAND (SP), very pale brown (10YR7/3), very dense, wet, fine grained, few fines, strong HCl reaction (183.5)
-108.9	188.5	50/0.3			50/0.3	SS-32			
-115.4									Clayey SAND (SC), brownish yellow (10YR6/6), dense, moist, fine grained, little to some fines, strong HCl reaction (195.0)
-118.9	198.5	20	18	16	34	SS-33			
-128.9	208.5	16	18	24	42	SS-34			208.5ft: light gray (10YR7/2), mottled brownish yellow (10YR6/8), trace organics, interbedded clay layers

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-2173	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,225 US ft (NAD83)	EASTING 2,599,945 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 12/11/07	COMPLETED 12/18/07	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
-144.8					Continued from previous page				
-148.9	228.5								Clayey SAND (SC), brownish yellow (10YR6/6), dense, moist, fine grained, little to some fines, strong HCl reaction *(continued)*
		12	15	21	36	SS-35			-148.9 228.5 FAT CLAY (CH), very pale brown (10YR8/2), mottled yellow (10YR7/8), hard, moist, few sand, strong HCl reaction, carbonate nodules, organics
-168.9	248.5								
		11	17	27	44	SS-36			248.5ft: light gray (10YR7/2), mottled brownish yellow (10YR6/8), trace sand
									-177.4 257.0 Clayey SAND (SC), light gray (10YR7/2), very dense, wet, fine grained, little fines, no HCl reaction, organics
-188.9	268.5								
		47	48	49	97	SS-37			

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-2173	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,225 US ft (NAD83)	EASTING 2,599,945 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 12/11/07	COMPLETED 12/18/07	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
-200.9					Continued from previous page				
									Clayey SAND (SC), light gray (10YR7/2), very dense, wet, fine grained, little fines, no HCl reaction, organics *(continued)*
									-207.4 287.0
-208.9	288.5								FAT CLAY (CH), very pale brown (10YR8/2), mottled brownish yellow (10YR6/6), hard, moist, few sand, strong HCl reaction, organics, trace carbonate nodules
		12	17	24	41	SS-38			
-218.9	298.5								
		15	20	26	46	SS-39			298.5ft: weak HCl reaction, ferrous staining
									-220.4 300.0
									Boring Terminated at Elevation -220.4 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 11

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST H. Lyatuu
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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
80.1					Ground Surface				80.1 — 0.0
80.1	0.0	1	2	5	7	SS-1			FAT CLAY with sand (CH), dark gray (5YR4/1), firm, moist, little fine sand, no HCl reaction, trace organics
77.1	3.0	2	2	2	4	SS-2			3.0ft: dark gray (10YR4/1), soft
74.1	6.0	1	4	5	9	SS-3			6.0ft: pale brown (10YR6/3), stiff, trace carbonate nodules, strong HCl reaction
71.6	8.5	3	4	6	10	SS-4			71.6 — 8.5: Sandy LEAN CLAY (CL) pinkish gray (5YR6/2), stiff, moist, strong HCl reaction, trace carbonate nodules trace black and brown grains
69.1	11.0	7	8	9	17	SS-5			11.0ft: pinkish gray (7.5YR6/2), very stiff
66.6	13.5	6	10	11	21	SS-6			
61.4	18.7	5	7	10	17	SS-7			18.5ft: mottled yellowish brown (10YR5/6)
56.5	23.6	5	8	12	20	SS-8			23.6ft: light gray (10YR7/2), mottled light reddish brown (5YR6/4)
51.4	28.7	5	7	11	18	SS-9			51.4 — 28.7: FAT CLAY (CH), light yellowish brown (10YR6/4), mottled light gray (10YR7/2), very stiff, moist, strong HCl reaction, trace carbonate grains
46.4	33.7	6	7	10	17	SS-10			33.7ft: light gray (10YR7/2), mottled yellowish brown (10YR5/6), few sand, trace carbonate nodules
41.4	38.7	12	17	23	40	SS-11			38.7ft: brownish yellow (10YR6/6), to light gray (10YR7/2), hard, few to little sand
39.1									39.1 — 41.0: Clayey SAND (SC), brownish yellow (10YR6/6), mottled light gray (7.5YR7/1), dense, moist, some fines, trace carbonate nodules, strong HCl reaction
36.4	43.7	12	16	23	39	SS-12			48.7ft: pinkish gray (7.5YR7/2), mottled brownish yellow (10YR6/6)
31.4	48.7	17	16	16	32	SS-13			
29.1									29.1 — 51.0: POORLY GRADED SAND (SP), very pale brown (10YR7/3), firm, moist, traces fines, no HCl reaction, traces of yellowish red stains
26.4	53.7	6	8	12	20	SS-14			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatuu	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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				
21.4	58.7	13	13	14	27	SS-15			22.6 — 57.5: Sandy FAT CLAY (CH), light brownish gray (10YR6/2), very stiff, moist, some sand, trace carbonate grains and nodules, trace brown stains, strong HCl reaction
16.4	63.7	7	8	17	25	SS-16A/B			63.7ft: pinkish gray (5YR7/2), mottled light brown (7.5YR6/4), few to little sand; 15.4 — 64.7: Clayey SAND (SC), very pale brown (10YR7/3), very firm, moist, some fines, fine grained, no HCl reaction
11.4	68.7	11	13	20	33	SS-17A/B			68.7ft: light brown (7.5YR6/3), dense; 10.7 — 69.4: 69.4ft: Sandy LEAN CLAY (CL), light brown (7.5YR6/4), hard, moist, trace to few sand, trace carbonate nodules, trace dark brown staining, strong HCl reaction
6.4	73.7	9	9	14	23	SS-18			73.7ft: pinkish gray (7.5YR6/2), very stiff
1.4	78.7	11	13	16	29	SS-19			78.7ft: light gray (10YR 7/2), some sand
-3.6	83.7	50/0.3			50/0.3	SS-20			83.7ft: hard, trace sand
-8.6	88.7	7	8	16	24	SS-21			88.7ft: pinkish gray (7.5YR 7/2), very stiff, few sand
-13.6	93.7	5	17	18	35	SS-22			-13.6 — 93.7: POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/1), dense, moist, fine sand, trace fines, no HCl reaction
-18.6	98.7	50/0.3			50/0.3	SS-23			-18.6 — 98.7: Silty SAND (SM) very pale brown (10YR7/3), very dense, fine to medium grained, trace dark brown grains, strong HCl reaction
-28.7	108.8	6	8	13	21	SS-24			-22.4 — 102.5: FAT CLAY (CH), light gray (5Y7/1), mottled brownish yellow (10YR6/6), very stiff, moist, few sand, trace carbonate nodules, trace black and brown nodules and stains, strong HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatuu	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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
-32.1					Continued from previous page				
									FAT CLAY (CH), light gray (5Y7/1), mottled brownish yellow (10YR6/6), very stiff, moist, few sand, trace carbonate nodules, trace black and brown nodules and stains, strong HCl reaction *(continued)*
-38.6	118.7	7	11	14	25	SS-25			118.7ft: pinkish gray (7.5YR6/2), trace sand
-48.6	128.7	10	28	31	59	SS-26			128.7ft: light gray (10YR7/2), hard, some sand
									-54.9 — 135.0 Silty SAND (SM), light gray (10YR7/1), very dense, moist, fine grained, trace fines, strong HCl reaction
-58.6	138.7	14	40	35	75	SS-27			
-68.6	148.7	9	16	23	39	SS-28			148.7ft: very pale brown (10YR7/2), dense, no HCl reaction
									-74.9 — 155.0 POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), mottled strong brown (7.5YR5/8), dense, moist, fine grained, few fines, trace brownish grains, strong HCl reaction
-78.6	158.7	13	15	28	43	SS-29			
									-84.9 — 165.0 Silty SAND (SM), light gray (10YR7/1), to very pale brown (10YR7/1), very dense, moist, fine to medium grained, trace fines, no HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST H. Lyatuu
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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				
-88.6	168.7	37	50/0.3		87/0.8	SS-30			Silty SAND (SM), light gray (10YR7/1), to very pale brown (10YR7/1), very dense, moist, fine to medium grained, trace fines, no HCl reaction *(continued)*
-98.6	178.7	18	33	50/0.2	83/0.7	SS-31			178.7ft: light gray (5Y7/2), to very pale brown (10YR7/4), trace carbonate nodules, trace olive yellow stains, strong HCl reaction
-108.6	188.7	50/0.08			50/0.08	SS-32			188.7ft: light gray (10YR7/2), fine sand, trace black grains, trace yellowish brown stains, weak HCl reaction
-118.6	198.7	22	37	41	78	SS-33			198.7ft: pinkish gray (7.5YR7/2), medium sand
									-131.9 — 212.0 FAT CLAY (CH), pinkish gray (7.5YR7/2), hard, moist, few sand, trace carbonate nodules, trace strong brown nodules, trace black organics, strong HCl reaction
-138.6	218.7	38	50/0.4		88/0.9	SS-34A/B			-139.1 — 219.2 POORLY GRADED SAND (SP), light gray (10YR7/1), to very pale brown (10YR7/1), very dense, moist, fine grained, trace fines, no HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatuu	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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
-144.3					Continued from previous page				
									POORLY GRADED SAND (SP), light gray (10YR7/1), to very pale brown (10YR7/1), very dense, moist, fine grained, trace fines, no HCl reaction *(continued)*
									-148.9 — 229.0 FAT CLAY (CH), light gray (7.5YR7/1), mottled light brown (7.5YR6/4), hard, moist, trace sand, trace carbonate nodules, strong HCl reaction
-158.6	238.7	19	22	28	50	SS-35			
									-169.9 — 250.0 POORLY GRADED SAND (SP), light gray (10YR7/1), very dense, moist, fine grained, trace fines, no HCl reaction
-178.6	258.7	29	35	45	80	SS-36			
									-184.9 — 265.0 Clayey SAND (SC), greenish gray (10YR6/1), moist, weak HCl reaction
									-189.9 — 270.0 FAT CLAY with sand (CH), light gray (10YR7/1), hard, moist, some fine sand, no HCl reaction
-198.6	278.7	12	40	50	90	SS-37A/B			-199.1 — 279.2

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatuu	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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
-200.4					Continued from previous page				
									POORLY GRADED SAND (SP), light gray (10YR7/1), very dense, moist, fine grained, few fines, no HCl reaction *(continued)*
									-209.9 — 290.0
									FAT CLAY (CH), light gray (2.5YR7/2), hard, moist, trace fine sand, trace carbonate grains, strong HCl reaction
-218.6	298.7								
		14	21	25	46	SS-38			
-238.8	318.9								
		8	12	19	31	SS-39			318.9ft: pinkish gray (7.5YR6/2), few sand, trace black organics
									-241.7 — 321.8
									POORLY GRADED SAND (SP), light gray (2.5Y7/2), and yellowish brown (2.5Y6/3), wet, fine grained sand, strong HCl reaction
									-254.8 — 334.9

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatuu	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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
-256.5					Continued from previous page				
-258.7	338.8								FAT CLAY (CH) very pale brown (10YR7/3), mottled light brown (7.5YR6/4), very stiff, moist, trace sand, trace brownish stains *(continued)*
		8	11	17	28	SS-40			
-278.7	358.8								
		10	12	20	32	SS-41			358.8ft: pale brown (10YR6/3), hard
-298.7	378.8								
		9	12	17	29	SS-42			378.8ft: very stiff, no sand, weak HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatuu	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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
-312.6					Continued from previous page				
									FAT CLAY (CH) very pale brown (10YR7/3), mottled light brown (7.5YR6/4), very stiff, moist, trace sand, trace brownish stains *(continued)*
-318.7	398.8	10	12	20	32	SS-43			398.8ft: very pale brown (10YR7/3), hard, trace sand, strong HCl reaction
-338.7	418.8	30	50/0.3		80/0.8	SS-44			-338.7 418.8 LEAN CLAY (CL), light gray (10YR7/1), mottled strong brown (7.5YR5/6), hard, moist, strong HCl reaction
-358.7	438.8	15	20	26	46	SS-45			-358.7 438.8 FAT CLAY (CH), pale brown (10YR6/3), mottled light brown (7.5YR6/4), hard, moist, strong HCl reaction,

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatuu	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,412,299 US ft (NAD83)	EASTING 2,600,001 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 601.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skoglund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 12/11/07	COMPLETED 1/6/08	CASING DEPTH: N/A	BITS USED: 3 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
-368.7					Continued from previous page				
									FAT CLAY (CH), pale brown (10YR6/3), mottled light brown (7.5YR6/4), hard, moist, strong HCl reaction, *(continued)*
-378.7	458.8	9	16	21	37	SS-46			458.8ft: light gray (10YR7/2)
-398.7	478.8	11	15	18	33	SS-47			-398.7 — 478.8: SILT with sand (ML), light gray (2.5YR7/1), hard, moist, little sand, trace dark brown grains, strong HCl reaction
-409.9									490.0: FAT CLAY (CH), light yellowish brown (10YR6/4), mottled light gray (2.5Y7/2), hard, moist, trace sand, strong HCl reaction
-418.5	498.6	38	36	50	86	SS-48			

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