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
-424.8					Continued from previous page				
									FAT CLAY (CH), light yellowish brown (10YR6/4), mottled light gray (2.5Y7/2), hard, moist, trace sand, strong HCl reaction *(continued)*
-436.9									517.0
-438.6	518.7								FAT CLAY with sand (CH), brownish yellow (10YR6/3), trace carbonate nodules 519.7ft: split sample: SS-49A from 518.7-519.7ft and SS-49B from 519.7-520.2ft
		25	24	41	65	SS-49A/B			
-439.6									519.7
									POORLY GRADED SAND (SP), light olive brown (2.5Y5/6), very dense, moist, fine sand, trace fines, no HCl reaction
-449.9									530.0
									FAT CLAY (CH), brown (7.5YR5/4), mottled light gray (5Y7/1), hard, moist, trace sand, trace carbonate nodules, strong HCl reaction
-458.6	538.7								
		18	23	29	52	SS-50			538.7ft: no recovery
-463.6	543.7								
		17	23	35	58	SS-51			
-471.9									552.0
									Silty SAND (SM), light gray (10YR7/1), very dense, moist, fine grained sand, trace fines, strong HCl reaction
-477.9	558.0								
		50/0.4			50/0.4	SS-52			

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
-480.9					Continued from previous page				
									-481.9 562.0 Sandy LEAN CLAY (CL), pinkish gray (5YR7/2), hard, moist, few sand, trace carbonate nodules, trace brown stains, strong HCl reaction
-498.6	578.7	13	14	32	46	SS-53			578.7ft: pale yellow (5Y8/2), moist, weak HCl reaction
-520.6	600.7	50/0.3			50/0.3	SS-54			-520.9 600.7ft: light yellowish brown (2.5Y6/4), few sand 601.0
									Note: Strata adapted from B-2174UD and B-2174UDR Boring Terminated at Elevation -520.9 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 6

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-2174UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,277 US ft (NAD83)	EASTING 2,600,006 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 305.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) NA
DATE STARTED 1/16/08	COMPLETED 1/31/08	CASING DEPTH: N/A	BITS USED: 6" 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
79.6					Ground Surface				79.6 / 0.0
69.6	10.0					UD-1			10.0ft: Sandy LEAN CLAY (CL), light greenish gray (10Y7/1), moist, carbonate nodules, black and yellow staining, strong HCl reaction - 1.6ft recovery
49.6	30.0					UD-2			30.0ft: FAT CLAY (CH), light greenish gray (10YR7/1), mottled yellowish brown (10YR5/8), moist, carbonate nodules, strong HCl reaction - 1.7ft recovery

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-2174UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,277 US ft (NAD83)	EASTING 2,600,006 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 305.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) NA
DATE STARTED 1/16/08	COMPLETED 1/31/08	CASING DEPTH: N/A	BITS USED: 6" 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
23.5					Continued from previous page				
4.6	75.0					UD-3			75.0ft: Sandy LEAN CLAY (CL), light greenish gray (10YR7/1), moist, carbonate nodules, yellowish brown staining, weak HCl reaction - 1.3ft recovery
-10.4	90.0					UD-4			90.0ft: Sandy LEAN CLAY (CL), light greenish gray (10YR7/1), mottled yellowish brown (10YR5/8), moist, weak HCl reaction - 0.8ft recovery
-12.4	92.0					UD-5			92.0ft: Sandy LEAN CLAY (CL), light greenish gray (10YR7/1), moist, carbonate nodules, black staining, strong HCl reaction - 1.4ft recovery
-15.4	95.0					UD-6			95.0ft: POORLY GRADED SAND with clay (SP-SC), light greenish gray (10YR7/1), to light brownish gray (10YR6/2), moist, carbonate nodules, black staining, strong to no HCl reaction - 1.2ft recovery

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-2174UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,277 US ft (NAD83)	EASTING 2,600,006 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 305.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) NA
DATE STARTED 1/16/08	COMPLETED 1/31/08	CASING DEPTH: N/A	BITS USED: 6" 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
-32.6					Continued from previous page				
-35.4	115.0					UD-7			115.0ft: FAT CLAY with sand (CH), light greenish gray (10YR6/1), moist, trace sand, carbonate nodules, yellowish brown staining, no HCl reaction - 1.4ft recovery
-65.4	145.0					UD-8			145.0ft: Silty SAND (SM), light yellowish brown (10YR6/4), moist, fine grained sand, little fines, strong HCl reaction - 0.7ft recovery

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-2174UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,277 US ft (NAD83)	EASTING 2,600,006 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 305.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) NA
DATE STARTED 1/16/08	COMPLETED 1/31/08	CASING DEPTH: N/A	BITS USED: 6" 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
-88.7					Continued from previous page				
-100.4	180.0					UD-9			180.0ft: Silty SAND (SM), light brownish gray (10YR6/2), moist, fine grained sand, trace fines, carbonate nodules, strong HCl reaction - 0.4ft recovery
-103.4	183.0					UD-10			183.0ft: Silty SAND (SM), light gray (10YR7/1), moist, medium grained sand, trace fines, carbonate nodules, strong HCl reaction
-126.4	206.0					UD-11			206.0ft: Silty SAND (SM), very pale brown (10YR7/3), moist, fine grained sand, trace fines, strong HCl reaction - 0.3ft recovery
-130.4	210.0					UD-12			210.0ft: Silty SAND (SM), light gray (10YR7/1), moist, fine grained sand, trace fines, strong HCl reaction - 0.2ft recovery

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-2174UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,277 US ft (NAD83)	EASTING 2,600,006 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 305.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) NA
DATE STARTED 1/16/08	COMPLETED 1/31/08	CASING DEPTH: N/A	BITS USED: 6" 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
-144.8					Continued from previous page				
-165.4	245.0								
-166.2	245.8					UD-13			245.0ft: FAT CLAY (CH), white (10YR8/1), moist, no sand, carbonate nodules, strong HCl reaction - 0.6ft recovery
						UD-14			245.6ft: few sand 245.8ft: FAT CLAY (CH), white (10YR8/1), moist, no sand, carbonate nodules, strong HCl reaction - 0.4ft recovery 248.3ft: FAT CLAY with sand (CH), white (10YR8/1), moist, little sand, weak HCl reaction
-185.4	265.0					UD-15			265.0ft: Clayey SAND (SC), greenish gray (10YR6/1), moist, some fines, weak HCl reaction - 1.8ft recovery

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-2174UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,277 US ft (NAD83)	EASTING 2,600,006 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 305.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) NA
DATE STARTED 1/16/08	COMPLETED 1/31/08	CASING DEPTH: N/A	BITS USED: 6" 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
-200.9					Continued from previous page				
-220.4	300.0					UD-16			300.0ft: FAT CLAY (CH), pale brown (10YR6/3), moist, trace sand, carbonate nodules, black staining, strong HCl reaction - 1.4ft recovery 305ft: Bit lost in hole and grouted in place on 1-31-08. Sampling resumed at 320ft in offset boring location, B-2174UDR
-225.4	305.0								Boring Terminated at Elevation -225.4 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 J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
79.0					Ground Surface				79.0 0.0
									Drilled down to 319.3ft and resumed sampling. Refer to B-2174UD for sample information from 0-300ft.

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
22.9					Continued from previous page				

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-33.2					Continued from previous page				

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-89.3					Continued from previous page				

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-145.4					Continued from previous page				

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-201.5					Continued from previous page				
-240.3	319.3					UD-17			319.3ft: FAT CLAY (CH), light yellowish brown (2.5Y6/3), moist, trace sand, carbonate nodules, strong HCl reaction - 1.0ft recovery
									321.8ft: POORLY GRADED SAND (SP), light gray (2.5Y7/2), wet, few fines, fine grained sand, strong HCl reaction
-245.8	324.8					UD-18			324.8ft: POORLY GRADED SAND (SP), light yellowish brown (2.5Y6/3), wet, fine grained sand, strong HCl reaction - 0.3ft recovery
-255.9	334.9					UD-19			334.9ft: FAT CLAY (CH), light yellowish brown (10YR6/4), moist, strong HCl reaction, carbonate

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-257.6					Continued from previous page				
									nodules - 1.8ft recovery
-280.1	359.1					UD-20			359.1ft: Sandy FAT CLAY (CH), light yellowish brown (10YR6/4), moist, some sand, carbonate nodules, strong HCl reaction - 1.6ft recovery

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-313.7					Continued from previous page				
-318.7	397.7					UD-21			397.7ft: FAT CLAY (CH), light yellowish brown (10YR6/4), moist, trace sand, strong HCl reaction - 1.6ft recovery
-330.6	409.6					UD-22			409.6ft: FAT CLAY (CH), light gray (2.5Y7/2), moist, few sand, carbonate nodules, strong HCl reaction - 1.4ft recovery
-340.5	419.5					UD-23			419.5ft: LEAN CLAY (CL), light gray (2.5Y7/2), moist, fine grained sand, strong HCl reaction - 0.6ft recovery
-346.0	425.0					UD-24			425.0ft: no recovery
-363.0	442.0					UD-25			442.0ft: no recovery
-366.0	445.0					UD-26			445.0ft: FAT CLAY (CH), mottled pale yellow (2.5Y8/2), and light gray (2.5Y7/1), moist, no sand, strong HCl reaction - 1.0ft recovery

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-369.8					Continued from previous page				
-411.0	490.0					UD-27			490.0ft: FAT CLAY (CH), mottled pale yellow (2.5Y8/2), and light gray (2.5Y7/1), moist, no sand, weak HCl reaction - 2.5ft recovery

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-425.9					Continued from previous page				
-446.0	525.0					UD-28			525.0ft: Clayey SAND (SC), light olive brown (2.5Y5/6), moist, little fines, fine grained sand, weak HCl reaction - 2.5ft recovery 527.0ft: Silty SAND (SM), light olive brown (2.5Y5/6), moist, some fines, fine grained sand, weak HCl reaction
-471.0	550.0					UD-29			550.0ft: FAT CLAY (CH), mottled pale yellow (2.5Y8/3), and light gray (2.5Y7/1), moist, trace sand, weak HCl reaction - 1.5ft recovery

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2174UDR	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.0 ft (NAVD88)	NORTHING 13,412,303 US ft (NAD83)	EASTING 2,600,012 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 593.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) NA
DATE STARTED 2/1/08	COMPLETED 2/16/08	CASING DEPTH: N/A	BITS USED: 5 7/8" Tricone

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
-482.0					Continued from previous page				
-491.0	570.0					UD-30			570.0ft: Sandy FAT CLAY (CH), pale yellow (5Y8/2), mottled light gray (5Y7/2), and yellowish brown (10YR5/6), moist, trace sand, weak to strong HCl reaction - 1.5ft recovery
-511.5	590.5					UD-31			590.5ft: Sandy LEAN CLAY (CL), pale yellow (5Y8/2), moist, weak HCl reaction - 2.3ft recovery
									-514.0 593.0ft: Silty SAND (SM), white (2.5Y8/1), moist, some fines, weak HCl reaction 593.0
									Boring Terminated at Elevation -514.0 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

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 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	4	8	9	17	SS-1			FAT CLAY with sand (CH), dark gray (10YR4/1), very stiff, moist, little sand, trace roots, no HCl reaction
76.6	3.5	9	9	10	19	SS-2			3.5ft: very dark gray (2.5Y3/1), weak HCl reaction
74.1	6.0	5	8	10	18	SS-3			6.0ft: light brownish gray (10YR6/2), mottled black, trace carbonate nodules, trace ferrous staining, strong HCl reaction
71.6	8.5	7	9	10	19	SS-4			8.5ft: very pale brown (10YR7/4)
69.1	11.0	8	10	12	22	SS-5			
66.6	13.5	7	8	7	15	SS-6			13.5ft: light gray (10YR7/2), stiff, few sand, trace organics
61.6	18.5	6	6	8	14	SS-7			18.5ft: very pale brown (10YR7/3), little sand
56.6	23.5	5	6	9	15	SS-8			23.5ft: yellow (10YR7/8, mottled white (10Y8/1), few sand
51.6	28.5	5	4	6	10	SS-9			
46.6	33.5	6	7	9	16	SS-10			33.5ft: very stiff
41.6	38.5	9	15	17	32	SS-11			38.5ft: very pale brown (10YR7/3), hard, little carbonate nodules
36.6	43.5	7	7	12	19	SS-12			37.1 / 43.0 Clayey SAND (SC), yellow (10YR7/6, 10YR7/8), firm to dense, moist to wet, little to some fines, trace carbonate nodules, no to strong HCl reaction
31.6	48.5	6	13	20	33	SS-13			
26.6	53.5	12	12	12	24	SS-14			27.1 / 53.0 POORLY GRADED SAND (SP), brownish yellow (10YR6/8) and reddish yellow (7.5YR6/8), very firm, wet, few fines, 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-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 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				
21.6	58.5								POORLY GRADED SAND (SP), brownish yellow (10YR6/8) and reddish yellow (7.5YR6/8), very firm, wet, few fines, no HCl reaction *(continued)* — 21.6 / 58.5
16.6	63.5	8	11	12	23	SS-15			Sandy FAT CLAY (CH), very pale brown (10YR8/3), very stiff, moist, some sand, trace carbonate nodules, weak HCl reaction
11.6	68.5	6	7	11	18	SS-16			63.5ft: mottled light yellowish brown (10YR6/4), few sand, trace organics, strong HCl reaction — 12.1 / 68.0
6.6	73.5	5	7	12	19	SS-17			Clayey SAND (SC), very pale brown (10YR8/2, 10YR7/3), firm, moist to wet, some fines, trace carbonate nodules, trace organics, trace ferrous staining, strong HCl reaction
1.6	78.5	5	6	12	18	SS-18A/B			5.8 / 74.3 — FAT CLAY with sand (CH), very pale brown (10YR7/4), mottled brownish yellow (10YR6/8), very stiff, moist, little sand, trace carbonate nodules, trace organics, ferrous staining, strong HCl reaction
-3.4	83.5	6	8	11	19	SS-19			1.6 / 78.5 — Clayey SAND (SC), very pale brown (10YR7/3), firm, wet, some fines, trace carbonate nodules, ferrous staining, no HCl reaction
-8.4	88.5	10	9	10	19	SS-20			-2.4 / 82.5 — FAT CLAY with sand (CH), very pale brown (10YR8/2), very stiff, moist, little sand, trace carbonate nodules, few organics, trace ferrous staining, weak to strong HCl reaction
-13.4	93.5	11	50/0.5		61/1.0	SS-21			88.5ft: hard
-14.9	95.0	50/0.2			50/0.2	SS-22			-11.9 / 92.0 — Clayey SAND (SC), very pale brown (10YR7/3), very dense, wet, medium to coarse grained sand, little fines, trace carbonate nodules, trace organics, weak HCl reaction
-18.4	98.5	50/0.2			50/0.2	SS-23			
-28.4	108.5	50/0.2			50/0.2	SS-24			-23.9 / 104.0 — 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
		7	8	11	19	SS-25			

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-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 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), very pale brown (10YR7/3), mottled brownish yellow (10YR6/8), very stiff, moist, few sand, trace carbonate nodules, trace organics, weak HCl reaction *(continued)*
-38.4	118.5								-38.4 — 118.5
		7	9	12	21	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
-48.4	128.5								
		12	11	16	27	SS-27			128.5ft: very pale brown (10YR7/3), strong HCl reaction
-58.4	138.5								
		8	8	10	18	SS-28			138.5ft: very pale brown (10YR8/2), few sand
-68.4	148.5								
		6	7	9	16	SS-29			148.5ft: mottled yellow (10YR7/8), little sand
-78.4	158.5								-78.4 — 158.5
		29	14	17	31	SS-30			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

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-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 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				
-88.4	168.5	29	39	45	84	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	56	SS-32			
-108.4	188.5	50/0.4			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	58	SS-34			
-119.9	200.0								Boring Terminated at Elevation -119.9 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 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 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
79.8					Ground Surface				79.8 / 0.0
79.8	0.0	2	3	5	8	SS-1			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	10	SS-2			3.5ft: gray (10YR5/1), stiff
73.8	6.0	6	7	10	17	SS-3			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	21	SS-4			
68.8	11.0	9	10	12	22	SS-5			
66.3	13.5	7	6	7	13	SS-6			13.5ft: stiff
61.3	18.5	5	6	8	14	SS-7			18.5ft: few sand, weak HCl reaction, some organics and ferrous staining
56.3	23.5	5	4	5	9	SS-8			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	13	SS-9			28.5ft: yellow (10YR7/8), mottled very pale brown (10YR7/3)
46.3	33.5	5	5	6	11	SS-10			33.5ft: brownish yellow (10YR6/6), mottled light greenish gray (10YR8/1)
41.3	38.5	5	5	10	15	SS-11			38.5ft: light gray (10YR7/2), mottled, brownish yellow (10YR6/6), little sand, weak HCl reaction
36.3	43.5	9	12	15	27	SS-12			43.5ft: yellow (10YR7/8), very stiff, strong HCl reaction
31.3	48.5	6	7	10	17	SS-13			48.5ft: light yellowish brown (10YR6/4), mottled light greenish gray (10Y8/1), few sand
26.3	53.5	6	10	11	21	SS-14			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