

TABLE 4.3
SUMMARY OF SOIL INDEX TEST RESULTS
FOR UNDISTURBED SAMPLES
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7/10/08
 Checked By: KAW Date: 7-10-08

Boring Number	Sample Number	Sample Depth (ft)	USCS Symbol	Gravel (%)	Sand (%)	Fines (%)	Silt (%)	0.005 mm Clay (%)	Natural Moisture (%)	LL (%)	PL (%)	PI (%)	G _s	Organic Content (%)	Dry Unit Weight ² (pcf)	Moisture Content (%)
B-2269UD	UD-5	50-51.7	CH	0.0	11.8	88.2	18.1	70.1	21.5	59	23	36	2.70			
B-2269UD	UD-7	70-71.7	CH	0.0	3.8	96.2	22.3	73.9	28.3	74	30	44	2.72	1.2		
B-2269UD	UD-8	73-74.7	CH	5.0	4.9	90.1	22.7	67.4	22.4	65	25	40	2.67			
B-2269UD	UD-9	120-121.7	MH	0.0	7.2	92.8	12.2	80.6	34.9	83	42	41	2.77		86.5	34.9
B-2269UD	UD-10	123-123.8	CH	0.3	11.8	87.9	28.8	59.1	17.4	69	26	43	2.68			
B-2269UD	UD-11	150-151.7	CH	0.0	12.1	87.9	37.2	50.7	21.8	50	22	28	2.70			
B-2269UD	UD-15	216.2-218.1	SC	0.0	59.9	40.1	21.8	18.3	16.6	26	14	12	2.66			
B-2269UD	UD-16	280-281.2	SC	0.0	78.3	21.7	7.3	14.4	18.6	26	17	9	2.69			
B-2269UD	UD-18	375-376.6	CL	0.0	28.9	71.1	25.3	45.8	22.3	46	14	32	2.78			
B-2269UD	UD-19	380-382.5	CH	0.0	5.2	94.8	12.9	81.9	28.5	88	31	57	2.69			
B-2269UD	UD-20	400-402.1	CH	0.0	8.2	91.8	26.1	65.7	24.1	63	20	43	2.77			
B-2274UD	UD-1	10.2-11.9	CL	0.0	10.1	89.9	46.3	43.6	16.4	33	15	18	2.75			
B-2274UD	UD-3	64.9-66.4	CH	0.5	25.4	74.1	16.2	57.9	ND	73	24	49	2.72			
B-2274UD	UD-4	67.0-68.7	CH	0.0	3.2	96.8	13.6	83.2	32.6	79	33	46	2.76			
B-2274UD	UD-5	89.8-90.8	CL	9.4	15.7	74.9	35.0	39.9	17.7	38	17	21	2.72			
B-2274UD	UD-8	120-122	CH	0.0	5.9	94.1	22.5	71.6	34.4	93	29	64	2.72			
B-2274UD	UD-12	221.1-223.6	SC	25.5	55.3	19.2			10.6				2.66			
B-2274UD	UD-13	240-242.5	CL	0.0	35.1	64.9	32.6	32.3	17.1	32	15	17	2.70		113.2	17.0
															115.3	14.9
															113.7	14.8
B-2274UD	UD-14	265-267.5	SC ¹	0.0	88.0	12.0							2.65			
B-2274UD	UD-16	300-301.8	CH	0.0	10.6	89.4	18.4	71.0	26.8	58	27	31	2.76			
B-2274UD	UD-17	320-322.5	MH	0.4	12.4	87.2	16.6	70.6	27.7	72	35	37	2.72			
B-2274UD	UD-18	330.1-332.6	SM	8.8	59.7	31.5			14				2.71			
B-2274UD	UD-19	350.1-352.6	SM	0.0	76.1	23.9			20.5				2.69			
B-2274UD	UD-20	380-381.8	MH	0.0	5.9	94.1	14.6	79.5	34.9	70	35	35	2.76			
B-2274UD	UD-21	390-391.8	CH	0.0	5.1	94.9	10.6	84.3	36.7	73	34	39	2.75			
B-2274UD	UD-22	400-401.3	CH	0.0	6.7	93.3	27.9	65.4	26.3	56	25	31	2.72			
B-2274UD	UD-23	420-422.5	CL	0.0	41.7	58.3	31.4	26.9	13.9	36	15	21	2.68			
B-2274UD	UD-24	480-482.5	CH	0.0	3.9	96.1	17.9	78.2	25.7	69	27	42	2.71			
B-2274UD	UD-26	580-582.5	CL	1.5	39.6	58.9	23.3	35.6	17.8	37	15	22	2.70			
1	Classification is based on quantitative and qualitative (visual inspection) information.										LL= Liquid Limit			NV= No Value		
2	Refer to Table 4.4 through Table 4.7 for unit weights not shown										PL= Plastic Limit			NP= Non-Plastic		
#	Underlined Values: Test not assigned but testing completed										PI = Plasticity Index					
	Information not available or test not assigned										G _s = Specific Gravity					

TABLE 4.4
SUMMARY OF UNCONSOLIDATED UNDRAINED
TRIAXIAL TEST RESULTS
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7/10/08
 Checked By: KAW Date: 7-10-08

Boring No.	Sample No.	Sample Depth (ft)	USCS Symbol	Initial Dry Unit Weight (pcf)	Void Ratio	Specific Gravity	Initial Moisture Content (%)	Confining Stress (tsf)	Undrained Shear Strength (tsf)
B-2174UDR	UD-26	445-446	CH	98.7	0.76	2.78	26.2	15.48	3.04
B-2182UD	UD-1	10-11.7	CL	113.0	0.53	2.76	14.0	0.72	1.96
B-2182UD	UD-5	33-34.7	CH	97.2	0.78	2.77	29.6	2.16	1.43
B-2182UD	UD-6	37-38.5	CL			2.75	16.1		
B-2182UD	UD-7	65-66.7	SC			2.74	25.0	3.60	1.55
B-2182UD	UD-11	90.5-93.0	CL	125.6	0.38	2.77	12.3	4.32	3.94
B-2182UD	UD-13	120-121.7	SC	111.0	0.52	2.71	18.7	5.04	3.01
B-2182UD	UD-15	145-147.5	ML	102.5	0.65	2.70	25.3	5.76	1.45
B-2182UD	UD-25	303-304.2	CH	95.7	0.82	2.79	25.1	10.80	2.36
B-2182UD	UD-26	320-321.5	CL	114.5	0.49	2.73	15.5	11.52	4.73
B-2182UD	UD-28	330-332	CH	97.3	0.76	2.74	28.0	11.88	2.92
B-2182UD	UD-30	340-341.1	CL	117.6	0.45	2.73	15.0	12.24	5.28
B-2182UD	UD-31	343-344	CL	115.9	0.48	2.74	15.8	12.24	6.73
B-2182UD	UD-33	380-381.7	CH	86.6	1.00	2.78	32.2	13.32	3.90
B-2182UD	UD-37	400-402.5	CL	103.1	0.67	2.76	23.6	14.04	2.53
B-2269UD	UD-1	10-12	CL	114.4	0.46	2.67	17.6	0.72	1.94
B-2269UD	UD-2	13-15	CH	104.9	0.58	2.66	23.0	0.72	1.23
B-2269UD	UD-3	30-32	CL	116.6	0.42	2.66	15.8	1.80	2.40
B-2269UD	UD-4	33-34.8	CL	116.7	0.47	2.74	15.0	1.80	1.96
B-2269UD	UD-5	50-51.7	CH	103.0	0.64	2.70	21.8	2.88	1.53
B-2269UD	UD-7	70-71.7	CH	95.5	0.78	2.72	28.3	3.60	1.18
B-2269UD	UD-8	73-74.7	CH	100.6	0.66	2.67	22.4	3.60	2.17
B-2269UD	UD-10	123-123.8	CH	115.1	0.45	2.68	17.4	5.40	2.06
B-2269UD	UD-11	150-151.7	CH	105.0	0.60	2.70	21.8	6.12	2.95
B-2269UD	UD-18	375-376.6	CL	104.1	0.67	2.78	22.3	13.32	1.90
B-2269UD	UD-20	400-402.1	CH	102.7	0.69	2.77	24.1	14.04	2.13
B-2274UD	UD-1	10.2-11.9	CL	109.2	0.57	2.75	19.3	0.72	1.37
B-2274UD	UD-4	67-68.7	CH	93.6	0.84	2.76	28.1	3.60	1.42
B-2274UD	UD-16	300-301.8	CH	95.4	0.81	2.76	25.0	10.80	3.90
B-2274UD	UD-17	320-322.5	MH	99.2	0.71	2.72	24.3	11.52	2.87
B-2274UD	UD-20	380-381.8	MH	89.6	0.92	2.76	31.0	13.32	3.27
B-2274UD	UD-22	400-401.3	CH	96.7	0.76	2.72	25.6	14.04	3.20

Notes:  Sample is not testable

TABLE 4.5
SUMMARY OF CONSOLIDATED
UNDRAINED TRIAXIAL TEST RESULTS
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7/10/08
 Checked By: LAW Date: 7-10-08

Borehole	Sample No.	Sample Depth (ft)	USCS Symbol	Initial Dry Unit Weight (pcf)	Initial Moisture Content (%)	Initial Void Ratio	Triaxial Test Data			
							c (tsf)	ϕ (°)	c' (tsf)	ϕ' (°)
B-2174UD	UD 1	10-11.7	CL	97.1	26.1	0.72	0.20	22.5	0.02	33.5
				114.8	16.7	0.45				
				116.3	15.7	0.43				
B-2174UD	UD 3	75-76.7	CL	117.1	15.8	0.47	-	-	-	-
B-2174UD	UD 4	90-90.9	CL	118.1	15.6	0.44	-	-	-	-

Notes:

- ϕ = Total stress internal friction angle
- c = Total stress cohesion intercept
- ϕ' = Effective stress internal friction angle
- c' = Effective stress cohesion intercept
- Not possible to determine shear strength parameters from a one point test

TABLE 4.6
SUMMARY OF DIRECT SHEAR TEST RESULTS
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7-10-08
 Checked By: KAW Date: 7-11-08

Boring No.	Sample No.	Sample Depth (ft)	USCS Symbol ⁽²⁾	Specific Gravity	Initial Dry Unit Weight (pcf)	Initial Void Ratio	Initial Moisture Content (%)	Normal Stress (tsf)	Shear Strength	
									c' (tsf)	φ' (°)
B-2174UD	UD 8	145-147	SM ⁽¹⁾	2.68	99.3	0.68	19.2	6.2	0.24	34.1
					102.8	0.63	15.7	12.4		
B-2174UD	UD 10	183-185	SM ⁽¹⁾	2.72	110.1	0.54	17.6	3.6	0.29	35.4
					109.5	0.55	13.8	14.5		
B-2174UD	UD 15	265-267	SC ⁽¹⁾	2.65	101.5	0.62	23.0	4.8	0.00	33.7
					109.3	0.51	18.2	9.8		
					114.9	0.44	16.7	14.5		
B-2182UD	UD 12B	95-97.5	SP-SM ⁽¹⁾	2.72	102.3	0.66	17.7	2.2	0.05	35.9
					101.1	0.68	18.7	4.3		
					107.1	0.59	16.7	8.8		
B-2182UD	UD 16	180-182.5	SM ⁽¹⁾	2.68	102.9	0.63	14.4	3.6	0.44	36.0
					105.2	0.59	15.9	7.3		
					113.0	0.48	14.9	14.5		
B-2269UD	UD 16	280-281.2	SC	2.69	107.6	0.56	18.9	3.6	0.20	34.0
					108.4	0.55	17.8	7.3		
					106.5	0.58	19.0	14.5		
B-2274UD	UD 12	221.1-223.6	SC ⁽¹⁾	2.66	111.9	0.48	10.1	4.0	0.80	31.9
					119.4	0.39	9.9	8.3		
					112.9	0.47	11.8	14.6		
B-2274UD	UD 18	330.1-332.6	SM ⁽¹⁾	2.71	116.3	0.46	13.4	5.5	1.30	30.8
					111.6	0.52	14.4	11.0		
					104.0	0.63	14.1	14.5		
B-2274UD	UD 19	350.1-352.6	SM ⁽¹⁾	2.69	106.5	0.58	18.9	5.4	0.00	36.0
					104.1	0.61	20.7	10.8		
					103.4	0.62	22.0	14.4		

Notes: (1) Classifications are based on available quantitative and qualitative (visual inspection) information
 (2) USCS Symbol and Atterberg Limits also presented in Table 4.3
 φ' = Effective internal friction angle
 c' = Effective cohesion intercept

TABLE 4.7
SUMMARY OF CONSOLIDATION TEST RESULTS
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU 7/10/08
 Checked By: KAW 7.10.08

Boring Number	Sample No.	Sample Depth (ft)	USCS Symbol ⁽¹⁾	Specific Gravity ⁽¹⁾	$\sigma_v^{(3)}$ (psf)	Dry Unit Weight ⁽²⁾ (pcf)	Moisture Content ⁽²⁾ (%)	Consolidation Test Results		
								$p_c^{(3)}$ (psf)	$C_c^{(3)}$	$C_r^{(3)}$
B-2174UDR	UD-26	445-446	CH	2.78	31000	96.2	27.6	50000	0.233	0.038
B-2174UDR	UD-27	490-492.5	CH	2.73	33900	109.6	20.2	41100	0.149	0.037
B-2182UD	UD-6	37-38.5	CL	2.75	4700	111.0	16.1	8600	0.143	0.022
B-2182UD	UD-7	65-66.7	SC	2.74	7300	95.4	20.9	11500	0.156	0.047
B-2182UD	UD-11	90.5-93	CL	2.77	8900	114.3	15.8	15100	0.136	0.017
B-2182UD	UD-12T	95-97.5	CL	2.73	9100	117.4	15.4	21700	0.070	0.017
B-2182UD	UD-13	120-121.7	SC	2.71	10700	104.6	20.4	21000	0.196	0.027
B-2182UD	UD-15	145-147.5	ML	2.70	12300	95.4	26.8	18400	0.156	0.032
B-2182UD	UD-17	215-217.5	CL	2.72	16700	101.7	22.8	26900	0.199	0.030
B-2182UD	UD-25	303-304.2	CH	2.79	22100	91.3	26.5	22100	0.209	0.032
B-2182UD	UD-26	320-321.5	CL	2.73	23200	115.5	14.9	35700	0.149	0.015
B-2182UD	UD-29	333-334.7	CH	2.72	24000	96.9	24.7	38300	0.276	0.037
B-2182UD	UD-30	340-341.1	CL	2.73	24400	116.9	15.5	38100	0.140	0.028
B-2182UD	UD-33	380-381.7	CH	2.78	27000	84.9	33.8	43300	0.455	0.028
B-2182UD	UD-37	400-402.5	CL	2.76	28200	91.4	29.3	29100	0.252	0.030
B-2269UD	UD-1	10-12	CL	2.67	1400	109.7	17.8	17200	0.126	0.012
B-2269UD	UD-3	30-32	CL	2.66	3900	110.7	15.4	9000	0.136	0.003
B-2269UD	UD-5	50-51.7	CH	2.70	6300	104.9	21.5	13700	0.159	0.060
B-2269UD	UD-7	70-71.7	CH	2.72	7600	84.4	36.6	22200	0.362	0.050
B-2269UD	UD-11	150-151.7	CH	2.70	12600	103.7	21.8	23200	0.193	0.063
B-2269UD	UD-20	400-402.1	CH	2.77	28200	85.7	32.9	28200	0.289	0.056
B-2274UD	UD-1	10.2-11.9	CL	2.75	1400	113.8	16.4	5800	0.110	0.013
B-2274UD	UD-4	67-68.7	CH	2.76	7400	89.24	32.6	17100	0.252	0.039
B-2274UD	UD-13	240-242.5	CL	2.70	18200	112.9	17.1	40800	0.126	0.014
B-2274UD	UD-16	300-301.8	CH	2.76	22000	90.9	26.8	43000	0.309	0.037
B-2274UD	UD-20	380-381.8	MH	2.76	27000	86.0	34.9	48100	0.409	0.050
B-2274UD	UD-21	390-391.8	CH	2.75	27600	83.6	36.7	47900	0.402	0.047
B-2274UD	UD-22	400-401.3	CH	2.72	28200	98.2	26.3	49600	0.252	0.020
B-2274UD	UD-26	580-582.5	CL	2.70	39500	111.0	17.8	50700	0.126	0.020
σ_v' = Overburden Pressure; p_c = Preconsolidation Pressure; C_c = Coefficient of Consolidation C_r = Coefficient of Recompression										
Notes: (1) USCS Symbol and Specific Gravity values are also presented in Table 4.3. (2) Dry unit weight and moisture content values shown were determined prior to beginning test procedure.										

TABLE 4.8
SUMMARY OF SOIL
CHEMICAL TEST RESULTS
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7-11-08
 Checked By: ivsb Date: 7-11-08

Sample Identification			Natural Moisture (%)	pH SW 846 9045D	Chloride (mg/kg) SW 846 9056 ⁽⁴⁾	Sulfate (mg/kg) SW 846 8056 ⁽⁵⁾
Boring No.	Sample Number	Depth (feet)				
B-2151	SS-1	0-1.5	14.5	8.0	108 J	49.1
B-2151	SS-3	6-7.5	14.8	8.1	541 J	39.7
B-2151	SS-5	11-12.5	12.1	8.3	293 J	1420
B-2151	SS-7	19.5-21	16.2	8.0	683 J	613
B-2151	SS-9	29.5-31	18.3	8.2	630 J	477
B-2151	SS-11	39.5-41	22.8	8.1	573 J	573
B-2151	SS-13	49.5-51	15.5	8.7	58.1 J	63.4
B-2151	SS-15	59.5-61	14.5	8.9	21.6 J	43.8
B-2151	SS-17	69.5-71.1	21.0	8.5	43.2 J	121
B-2151	SS-19	79.5-81	12.7	8.5	66.6 J	55.2
B-2151	SS-21	89.5-91	12.0	8.5	56.9 J	37.4
B-2151	SS-23	99.5-101	9.6	8.4	74.7 J	108
B-2151	SS-25	119.5-121	16.8	8.3	77.7 J	24.0
B-2151	SS-26	128.5-130	17.5	8.5	80.3	36.5
B-2151	SS-28	149.6-151.1	12.7	8.6	93.4	22.9
B-2160	SS-2	3.5-5	21.6	8.7	18.0	69.2
B-2160	SS-4	8.5-10	11.2	7.7	196 J	452
B-2160	SS-6	13.5-15	14.9	7.7	141 J	4290
B-2160	SS-8	23.5-25	18.2	8.0	282 J	724
B-2160	SS-11	38.5-40	21.8	8.1	280.0	556
B-2160	SS-12	43.5-45	16.1	8.5	157 J	382
B-2160	SS-14	53.5-55	12.1	8.5	50.3 J	184
B-2160	SS-15	58.5-60	16.3	9.0	36.4	117
B-2160	SS-18	73.5-75	16.4	8.5	61.4 J	135
B-2160	SS-19	78.5-80	16.0	8.5	30.1	42.5
B-2160	SS-20	83.5-85	19.2	8.6	34.0	78.0
B-2160	SS-22	93.5-95	15.4	8.8	28.3	47.2
B-2160	SS-24	108.5-110	22.2	8.3	36.2	44.0
B-2160	SS-26	128.5-130	13.1	8.8	38.1	22.1
B-2160	SS-28	148.5-150	12.5	8.6	14.6	11.9
B-2160	SS-29	158.5-160	12.8	8.7	25.7	24.2
B-2251	SS-1	0-1.5	14.8	7.2	15.6	96.3
B-2251	SS-3	6-7.5	14.2	8.2	321.0	196
B-2251	SS-5	11-12.5	15.6	8.5	198.0	35.5
B-2251	SS-7	18.5-20	21.9	8.3	241.0	250
B-2251	SS-9	28.5-30.0	14.9	8.5	173.0	220
B-2251	SS-11	38.5-40	12.3	9.0	32.7	59.2
B-2251	SS-13	48.5-50	16.4	9.0	39.0	15.8
B-2251	SS-15	58.5-60	12.4	8.5	223.0	22.0
B-2251	SS-17	68.5-70	23.2	8.4	50.1	124
B-2251	SS-19	78.5-80	14.5	8.7	30.8	29.9

TABLE 4.8
SUMMARY OF SOIL
CHEMICAL TEST RESULTS
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7-11-08
 Checked By: WLB Date: 7-11-08

Sample Identification			Natural Moisture (%)	pH	Chloride (mg/kg) SW 846 9056 ⁽⁴⁾	Sulfate (mg/kg) SW 846 8056 ⁽⁵⁾
Boring No.	Sample Number	Depth (feet)				
B-2251	SS-21	88.5-90	12.6	8.8	97.1	23.2
B-2251	SS-23	98.5-100	21.8	8.0	455.0	25.2
B-2251	SS-25	118.5-120	19.0	8.6	42.0	29.6
B-2251	SS-27	138.5-140	12.0	8.8	42.3	17.0
B-2251	SS-28	148.5-150	16.0	8.6	59.2	17.2
B-2265	SS-2	3.5-5	14.6	8.4	14.0	7.4
B-2265	SS-4	8.5-10	13.1	8.4	4.4	4.5 B
B-2265	SS-6	13.5-15	17.3	8.2	5.5	5.8 B
B-2265	SS-8	23.5-25	11.3	8.6	5.1	3.9 B
B-2265	SS-10	32.5-35	10.4	8.3	5.4 J	3.8 B
B-2265	SS-12	43.5-45	13.8	8.8	8.1	3.6 B
B-2265	SS-14	53.5-55	9.4	8.9	21.7	54.8
B-2265	SS-16	63.5-65	11.3	8.7	7.0	19.7
B-2265	SS-18	73.5-75	10.6	8.6	17.1	44.2
B-2265	SS-21	88.5-90	16.5	8.1	16.6	19.5
B-2265	SS-22	93.5-95	14.0	8.8	40.7	22.5
B-2265	SS-23B	98.9-100	8.5	8.8	18.6	18.7
B-2265	SS-26	128.5-130	13.1	8.6	34.7	23.8
TP-2102	Bulk	8	12.4	8.0	670.0	1380.0
TP-2103	Bulk	8	12.0	8.6	325.0	55.7
TP-2104	Bulk	8	11.30	8.60	501.0	59.0
TP-2201	Bulk	5	13.0	9.0	3.9	11.8
TP-2202	Bulk	5-10	16.7	8.3	547.0	43.7
TP-2203	Bulk	8	14.0	8.5	399.0	176.0
TP-2204	Bulk	5-10	12.6	9.0	9.50	15.0

NOTES:

- (1) Tests performed by TEST AMERICA - St. Louis, MO
- (2) J indicates method blank contamination. The associated method blank contains the target analyte at a reportable level.
- (3) B indicates an estimated result. The results is less than the reporting limit.
- (4) SW 846 9056/EPA Method 300.0 (EPA-600 / 4-79-020)
- (5) SW 846 8056/EPA Method 300.0 (EPA-600 / 4-79-020)

TABLE 4.9
SUMMARY OF SOIL INDEX TEST RESULTS FOR BORROW SOILS
EXELON (Victoria) COL PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7/10/08
 Checked By: FAW Date: 7-10-08

Borrow Soil Identification	Sample Type	USCS Symbol	Particle Size Analysis			Specific Gravity		Natural Moisture (%)	Moisture/Density ⁽¹⁾		Direct Shear Tests			
			Gravel (%)	Sand (%)	Fines (%)	G _s (Bulk)	Absorption (%)		Max. Dry Density (pcf)	Optimum Moisture (%)	Dry Unit Weight (pcf)	Moisture Content (%)	c' (tsf)	φ' (°)
Fordyce Murphy Pit C-33	Bulk	SP	0	99	1	2.607 ⁽²⁾	0.73	4.2	112.5	3.0	107.0 107.0 107.0	3.1 3.0 3.0	0	37
Fordyce Murphy Pit C-144	Bulk	SP	0	98	2	2.611 ⁽²⁾	0.72	5.1	105.5	8.0	99.7 99.8 100.1	8.2 8.1 7.8	0	36
Fordyce Briggs Pit	Bulk	SW	42	55	3	2.7 ⁽³⁾		7.1	127.0	8.5				
	Seived ⁽⁴⁾								120.5	12.5	114.3 114.3 114.2	12.4 12.4 12.5	0	40
CW&A Texas DOT Grade 4	Bulk	GW-GC	50	43	7	2.67 ⁽³⁾		3.4	138.0	5.5				
	Seived ⁽⁴⁾								136.5	6.0	130.6 130.7 130.7	5.8 5.7 5.7	0	42
CW&A Texas DOT Grade 6	Bulk	GP-GC	47	43	10	2.659 ⁽³⁾		4.6	137.0	6.0				
	Seived ⁽⁴⁾								133.0	6.5	126.7 126.7 126.5	6.1 6.1 6.4	0	39

(1) Moisture/density testing performed in accordance with ASTM D 1557-02 (Modified Proctor).

(2) Specific Gravity determined by ASTM C 128-07

(3) Specific Gravity determined by ASTM D 854-06 (Method B)

(4) Bulk sample was passed through 3/8 inch sieve prior to testing

 Information not available or test not assigned

φ' = Effective stress internal friction angle
 c' = Effective stress cohesion intercept

TABLE 4.10
SUMMARY OF SOIL CHEMICAL
TEST RESULTS FOR BORROW SOILS
EXELON TEXAS COL (Victoria) PROJECT
MACTEC PROJECT NO. 6468-07-1777
POWER BLOCK

Prepared By: ZHU Date: 7/10/08
 Checked By: KAW Date: 7-10-08

Sample Identification	Moisture (%)	pH	Chloride (mg/kg)	Sulfate (mg/kg)
		SW 846 9045D	SW 846 9056 ⁽²⁾	SW 846 8056 ⁽³⁾
Murphy Pit C-33	3.8	9.3	0.84 A	5.6
Murphy Pit C-144	4.4	9.4	4.4	4.7 A
Briggs Raw Material	5.7	9.4	7.9	10.2
CW&A Texas DOT Grade 4	3.4	5.7	1.4 A	5.6
CW&A Texas DOT Grade 6	4.5	8.1	2.3	11.8

NOTES:

- (1) Tests performed by TEST AMERICA - St. Louis, MO
 - (2) SW 846 9056/EPA Method 300.0 (EPA-600 / 4-79-020)
 - (3) SW 846 8056/EPA Method 300.0 (EPA-600 / 4-79-020)
- A = Estimated Result is less than Reporting Limits