DATA REPORT Rev. 1 | Rev. 1
GEOTECHNICAL EXPLORATION AND TESTING

VIRGINIA ELECTRIC AND POWER COMPANY | Rev. 1
NORTH ANNA NUCLEAR POWER STATION
MINERAL, LOUISA COUNTY, VIRGINIA

September 28, 2007 | Rev. 1

VOLUME 4 - APPENDIX F

Prepared For:

Virginia Electric and Power Company | Rev. 1
Richmond, Virginia

Prepared By:

MACTEC Engineering and Consulting, Inc.
Raleigh, North Carolina

MACTEC Project No. 6468-06-1472

GEOTECHNICAL LABORATORY TEST ASSIGNMENT

Date Revised 11/22/2006 Job Name North Anna COL Job No. 25161 Requested By John Davie

	SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
									Grain Size Analysis																	
	Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
	B-901	Jar	3.5	2	x					x																
**	B-901	(T-22")	7.5	UD-1	x					x										x						
	B-901	(T-22")	9.5	UD-2	x					x						x		5,10,20 psi								
	B-901	Jar	11.5	4	x					x	x															
	B-901	(T-12")	13	UD-3																						
	B-901	Jar	22.2	6	x				x																	
	B-901	Jar	37.2	9	x			x		x																
	B-901	Core(1)	50	R-5		x															x					
	B-901	Core	60	R-7		x																x				
*	B-901	Core	80	R-11		x															x					
*	B-901	Core	85	R-12		x																x				
	B-901	Core	95	R-14		x															x					
*	B-901	Core	106.5	R-18		x															x					
*	B-901	Core	115	R-21		x																x				
	B-901	Core	127	R-25		x															x					
*	B-901	Core	140	R-28		x															x					
	B-901	Core	170	R-34		x																x				
	B-901	Core	200	R-41		x															x	deleted				
	B-901	Core	240	R-51		x															x					
	B-901	Core	280	R-59		x																x				

* CORE NOT SUITABLE FOR TESTING. DSC 1-22-07

** TEST RESULTS TO BE SUBMITTED IN A SUPPLEMENTAL REPORT. DSC 1-22-07

Contact John Davie of Bechtel if there are any questions: Phone (301) 228-7647; e-mail JDAVIE@BECHTEL.COM.

(1) For rock core testing, MACTEC will select suitable (and typical) section of the core run for testing, and note actual depth tested.

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-902	Jar	3.5	2	x				x		x															
B-902	Jar	8.5	4	x			x		x																
B-902	Jar	13.5	6	x				x																	
B-902	Core(1)	26.8	R-3		x																x				
B-902	Core	46.8	R-9		x															x					
B-902	Core	71.8	R-14		x															x					
B-902	Core	91.7	R-18		x																x				
* B-902	Core	116.7	R-23		x															x					
B-902	Core	141.7	R-28		x															x					
B-902	Core	183.1	R-38		x															x					

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B-907	Jar	3.5	2	x			x		x																
B-907	Jar	5.5	3	x				x		x															
B-907	Jar	11	5	x				x																	
B-907	Jar	17.5	7	x			x		x																
B-907	Jar	27.5	9					x																	
B-907	Jar	32.5	10					x																	
B-907	Core(1)	50.5	R-4		x															x					
B-907	Core	85.5	R-12		x																x				
B-907	Core	111.8	R-23		x															x					
B-907	Core	130.5	R-27		x															x					
B-907	Core	160.5	R-33		x																x				
B-907	Core	195.5	R-40		x															x					

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B-908	Jar	6	3	x		x			x																
B-908	Jar	13.5	6			x		x																	
B-908	Jar	23.7	8					x																	
B-908	Jar	48.6	13	x					x																
B-908	Core(1)	66.4	R-2		x															x					
B-908	Core	76.4	R-4		x																x				
B-908	Core	91.4	R-7		x															x					
B-908	Core	111.4	R-11		x															x					
B-908	Core	131.4	R-17		x																x				
B-908	Core	146.4	R-20		x															x					

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B-909	Jar	6	3	x			x		x																
B-909	Jar	11	5	x				x		x															
B-909	Jar	18.5	7	x			x		x																
B-909	Jar	23.5	8	x				x																	
B-909	Jar	41.9	12	x				x																	
B-909	Core(1)	76.9	R-10		x																x				
B-909	Core	91.9	R-14		x															x					
B-909	Core	106.9	R-17		x															x					
B-909	Core	126.9	R-21		x															x					
B-909	Core	151.9	R-26		x																x				
B-909	Core	186.9	R-33		x															x					

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B-910	Jar	3.5	2	x					x																
B-910	Jar	11	5	x			x			x															
B-910	Jar	18.5	7	x					x																
B-910	Jar	25.9	9	x				x		x															
B-910	Core(1)	50.4	R-5		x															x					
* B-910	Core	60.4	R-7		x															x					
B-910	Core	90.4	R-13		x																x				
B-910	Core	120.3	R-20		x															x					
B-910	Core	140.3	R-24		x															x					

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B-911	Jar	3.5	2	x				x																	
B-911	Jar	8	4	x					x																
B-911	Jar	11	5	x				x		x															
B-911	Jar	18.5	7	x				x																	
B-911	Core(1)	31.1	R-3		x																x				
B-911	Core	46	R-6		x															x					
B-911	Core	66	R-10		x															x					
B-911	Core	81	R-13		x																x				
B-911	Core	96	R-16		x															x					

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* B-911A	(T-20")	9.7	UD-1	x					x										x						
B-911A	(T-7")	14.7	UD-2																						
* B-911A	(T-10")	19.7	UD-3					x											x						

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B-912	Jar	9.1	1	x					x																
B-912	Jar	14.1	3	x				x																	
B-912	Jar	19.1	4	x				x																	
B-912	Core(1)	36.8	R-3		x																x				
B-912	Core	46.8	R-5		x															x					
B-912	Core	61.8	R-8		x															x					
B-912	Core	81.8	R-12		x															x					
B-912	Core	111.8	R-18		x																x				
B-912	Core	141.8	R-24		x															x					

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B-914	Jar	3.5	2	x			x		x																
B-914	Jar	6	3					x																	
B-914	Jar	11	5					x																	
B-914	Jar	19	7	x					x																
B-914	Jar	36.5	9					x		x															
B-914	Jar	40.6	10	x					x																
B-914	Core(1)	50.6	R-6		x															x					
B-914	Core	70.6	R-10		x															x					
B-914	Core	95.4	R-15		x																x				
B-914	Core	120.3	R-20		x															x					
B-914	Core	150.6	R-26		x																x				
B-914	Core	190.5	R-34		x															x					

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B-918	Jar	3.2	2	x		x			x																
B-918	Jar	5.1	3	x				x		x															
B-918	Jar	9.3	4	x					x																
B-918	Jar	13.2	6	x				x																	
B-918	Jar	22.4	8	x				x																	
B-918	Core(1)	26.3	R-1		x															x					
B-918	Core	35.1	R-4		x																x				
B-918	Core	45.2	R-6		x															x					
B-918	Core	60.2	R-9		x															x					
B-918	Core	90.1	R-16		x																x				
B-918	Core	120.1	R-22		x															x					

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B-919	Jar	1.5	1	x			x																		
B-919	Jar	5.9	3	x				x																	
B-919	Jar	11	5	x				x																	
B-919	Jar	18.9	7	x				x	x																
B-919	Jar	51.3	13	x					x																

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-920	Jar	2	1	x																					
B-920	Jar	6	3	x				x																	
B-920	Jar	13.8	6	x						x															
B-920	Jar	18.8	7	x					x																
B-920	Jar	28.8	9	x				x																	
B-920	Jar	43.5	12	x						x															
* B-920	Core(1)	75.8	R-5		x															x					
B-920	Core	86.1	R-7		x															x					
B-920	Core	100.7	R-10		x																x				
B-920	Core	120.7	R-14		x															x					
B-920	Core	140.7	R-18		x																x				

* CORE NOT SUITABLE FOR TESTING. DSC 1-22-07

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GEOTECHNICAL LABORATORY TEST ASSIGNMENT

Date Revised 11/22/2006 Job Name North Anna COL Job No. 25161 Requested By John Davie

SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
								Grain Size Analysis																	
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-921	Jar	1.5	1	x				x																	
B-921	Jar	6	3	x			x		x																
B-921	Jar	8.5	4	x					x	x															
B-921	Jar	13.5	6	x					x																
B-921	Jar	23.8	8	x			x																		
B-921	Jar	33.8	10	x				x																	
B-921	Jar	38.8	11	x				x																	
B-921	Jar	63.8	16	x					x																

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Date: Revised 11/22/2006 Job Name: North Anna COL Job No.: 25161 Requested By: John Davie

	SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
									Grain Size Analysis																	
	Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
*	B-921A	(T-10")	10	UD-1	x			x		x										x						
	B-921A	(T-20")	14.5	UD-2	x					x						x		6,12,24 psi								
*	B-921A	(T-21")	19.5	UD-3	x			x		x										x						
*	B-921A	(T-21")	24.5	UD-4	x			x		x										x						
	B-921A	(T-6")	35	PB-1																						

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-923	Jar	3.3	2	x			x		x																
* B-923	Core(1)	5.4	R-2		x															x					
B-923	Core	15.4	R-5		x																x				
B-923	Core	30.4	R-9		x															x					
B-923	Core	50.4	R-13		x															x					
B-923	Core	70.4	R-18		x																x				

* CORE NOT SUITABLE FOR TESTING. DSC 1-22-07

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SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-924	Jar	3.5	2	x					x																
B-924	Jar	6	3	x				x																	
B-924	Core(1)	18.6	R-1		x															x					
B-924	Core	28.6	R-3		x															x					
B-924	Core	43.6	R-6		x																x				
B-924	Core	73.6	R-12		x															x					

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SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
								Grain Size Analysis																	
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-927	Jar	1.5	1	x			x		x																
B-927	Jar	3.5	2	x				x																	
B-927	Jar	6	3	x			x		x																
B-927	Jar	8.5	4	x				x		x															
B-927	Jar	13.5	6	x				x																	
B-927	Jar	18.5	7	x				x																	
B-927	Jar	23.5	8	x				x		x															
B-927	Core(1)	39.7	R-2		x															x					
B-927	Core	51.2	R-6		x																x				
B-927	Core	74.6	R-13		x															x					
B-927	Core	96	R-18		x															x					

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SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
								Grain Size Analysis																	
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-928	Jar	3.5	2	x				x																	
B-928	Jar	8.3	4	x				x		x															
B-928	Jar	14	6	x					x																
B-928	Jar	22.1	8	x				x																	
B-928	Jar	27.1	9	x					x																
B-928	Core(1)	52.1	R-2		x															x					
B-928	Core	65.2	R-5		x																x				

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	SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
	Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Grain Size Analysis: Sieve Only	Grain Size Analysis: Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
*	B-928A	(T-21")	15	UD-2					x											x						
	B-928A	(T-22")	20	UD-3												x		8,16,32 psi								
	B-928A	(T-8")	25	PB-1																						
	B-928A	(T-8")	27.3	PB-2																						
*	B-928A	(T-8")	35	PB-3					x											x						

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								Grain Size Analysis																	
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-929	Jar	1.5	1	x			x		x																
B-929	Jar	3.5	2	x			x																		
B-929	Jar	8.7	4	x				x		x															
* B-929	(T-24")	10.2	UD-1	x					x										x						
B-929	Jar	13.5	5	x				x																	
B-929	Jar	23	7	x					x																
B-929	Jar	33	9	x				x																	
B-929	Jar	43	11	x				x																	
B-929	Jar	53	13	x				x																	

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-929A	(T-21")	15	UD-1	x					x						x		6,12,24 psi								
B-929A	(T-13")	25	UD-3																						
B-929A	(T-16")	30	UD-4	x					x						x		12,24,48 psi								
* B-929A	(T-19")	35	UD-5	x					x										x						
B-929A	(T-19")	40	UD-6	x					x						x		15,30,45 psi								
B-929A	(T-8")	45	PB-1																						
B-929A	(T-9")	50	PB-2																						

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-933	Jar	6	3	x					x																
B-933	Jar	11.2	5	x				x		x															
B-933	Jar	19.5	7	x				x																	
B-933	Jar	24.5	8	x				x																	
B-933	Core(1)	46.5	R-3		x															x					
B-933	Core	66.2	R-7		x																x				
B-933	Core	86.1	R-11		x															x					

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* B-933A	(T-15")	10	UD-1	x					x										x						
B-933A	(T-15")	15	UD-2	x					x						x		6,12,24 psi								
B-933A	(T-10")	20	UD-3																						
* B-933A	(T-19")	25	PB-1					x											x						

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-945	Jar	1.5	1	x				x																	
B-945	Jar	6.2	3	x					x																
B-945	Jar	11.3	5	x				x		x															
B-945	Jar	19.4	7	x		x		x																	
B-945	Jar	29.4	9	x					x																
B-945	Jar	39.4	11	x				x																	
B-945	Jar	49.4	13	x				x																	

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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B-947	Jar	1.5	1	x		x	x																		
B-947	Jar	6	3	x			x		x																
B-947	Jar	8.5	4	x			x	x																	
B-947	Jar	11	5	x		x			x																
B-947	Jar	13.5	6	x				x																	
B-947	Jar	18.7	7	x				x		x															
B-947	Jar	23.7	8	x			x		x																
B-947	Jar	28.7	9	x			x	x																	
B-947	Jar	33.7	10	x				x																	
B-947	Jar	38.7	11	x				x																	
B-947	Jar	43.7	12	x					x																

Contact John Davie of Bechtel if there are any questions: Phone (301) 228-7647; e-mail JDAVIE@BECHTEL.COM.

(1) For rock core testing, MACTEC will select suitable (and typical) section of the core run for testing, and note actual depth tested.

GEOTECHNICAL LABORATORY TEST ASSIGNMENT

Date Revised 11/22/2006 Job Name North Anna COL Job No. 25161 Requested By John Davie

SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
								Grain Size Analysis																	
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
B948	Jar	1.5	1	x				x																	
B-948	Jar	6	3	x				x		x															
B-948	Jar	11	5	x					x																
B-948	Jar	18.5	7	x				x																	
B-948	Jar	23.5	8	x				x																	
* B-948	Core(1)	35.7	R-2		x															x					
B-948	Core	55.5	R-6		x															x					
B-948	Core	75.7	R-10		x															x					

* CORE NOT SUITABLE FOR TESTING. DSC 1-22-07

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Date Revised 11/22/2006 Job Name North Anna COL Job No. 25161 Requested By John Davie

SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION			CONSOLIDATION
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Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Sieve Only	Sieve + Hydrometer	Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	TSRC (Assume K_0 = 0.5)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.
TP-1	bulk	0-1.5	Bkt-1																				x	deleted	
TP-1	bulk	1.5-4	Bkt-2																				x	x	
TP-2	bulk	0-3.75	Bkt-1																				x	x	
TP-3	bulk	1.9-2.6	Bkt-1																				x	deleted	
TP-3	bulk	2.6-4.6	Bkt-2																				x	x	
TP-4	bulk	2.3-3.1	Bkt-1																				x	deleted	
TP-4	bulk	3.1-4.4	Bkt-2																				x	x	
TP-5	bulk	0-2.3	Bkt-1																				x	deleted	
TP-6	bulk	0-4.3	Bkt-1																				x	x	

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