



SHEET 1 OF 2

MACTEC PROJECT NO.: 6468-06-1472					COUNTY Louisa, VA					GEOLOGIST S. Nicely					
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)					
BORING NO. B-946			DRILL METHOD: Mud Rotary/Core			SAMPLE METHODS: SPT/CORE					0 HR. 25.0				
COLLAR ELEV. 333.4 ft (NAVD88)			NORTHING 3,908,787		US ft (NAD83)		EASTING 11,683,811		US ft (NAD83)		24 HR. ND				
TOTAL DEPTH 100.7 ft		DRILL MACHINE CME 550 ATV			DRILLER: G. Akins					HAMMER TYPE 140 lbs Auto					
DATE STARTED 10/23/06			COMPLETED 10/25/06			CORE BARREL TYPE: HQ 3 triple tube-wireline									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100	
333.4					Ground Surface								333.4 0.0		
331.8	1.6												Sandy SILT (ML) yellowish red (5YR 5/8), moist, very stiff to stiff, trace gravel (Fill)		
330.1	3.3	12	11	9						946-1					
		4	5	7						946-2			Sandy SILT (ML) strong brown (7.5YR 5/8), moist, stiff, trace gravel and mica (Residual Soil)		5.0
327.3	6.1	3	4	5						946-3					
324.9	8.5	4	5	7						946-4					
322.3	11.1	4	5	8						946-5					
319.2	14.2	3	4	4						946-6			Silty, fine to medium SAND (SM) strong brown (7.5YR 5/8), dark yellowish brown (10YR 4/6), and olive brown (2.5Y 4/3), moist to wet, loose to medium dense, micaceous (Residual Soil)		13.0
314.2	19.2	2	4	6						946-7					
309.2	24.2	3	5	8						946-8			Silty, fine to coarse SAND (SM) brownish yellow (10YR 6/6) and dark yellowish brown (10YR 4/4), moist, medium dense and very dense, micaceous (Residual Soil)		31.0
304.2	29.2	3	5	7						946-9					
299.2	34.2	19	41	38						946-10					
294.2	39.2	6	10	14						946-11					
291.6	41.8	50/0.1								946-12			Weathered Rock: BIOTITE-QUARTZ GNEISS Hard Rock: Light gray, gray, brown, and reddish brown, moderately severe to slightly weathered, very close to moderately close fracturing, soft to very hard, BIOTITE-QUARTZ GNEISS with severely weathered zones		41.0 41.9

NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL GDT 1/19/07



SHEET 2 OF 2

MACTEC PROJECT NO.: 6468-06-1472				COUNTY Louisa, VA				GEOLOGIST S. Nicely								
SITE DESCRIPTION NORTH ANNA COL								GROUND WATER (ft)								
BORING NO. B-946		DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 25.0						
COLLAR ELEV. 333.4 ft (NAVD88)		NORTHING 3,908,787		US ft (NAD83)		EASTING 11,683,811		US ft (NAD83)		24 HR. ND						
TOTAL DEPTH 100.7 ft		DRILL MACHINE CME 550 ATV				DRILLER: G. Akins				HAMMER TYPE 140 lbs Auto						
DATE STARTED 10/23/06		COMPLETED 10/25/06				CORE BARREL TYPE: HQ 3 triple tube-wireline										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100						
258.6					Continued from previous page											
														257.6	75.8	Hard Rock: Gray to light gray and reddish brown, moderately weathered to fresh, very close to moderately close fracturing, hard to very hard, BIOTITE-QUARTZ GNEISS



SHEET 1 OF 1

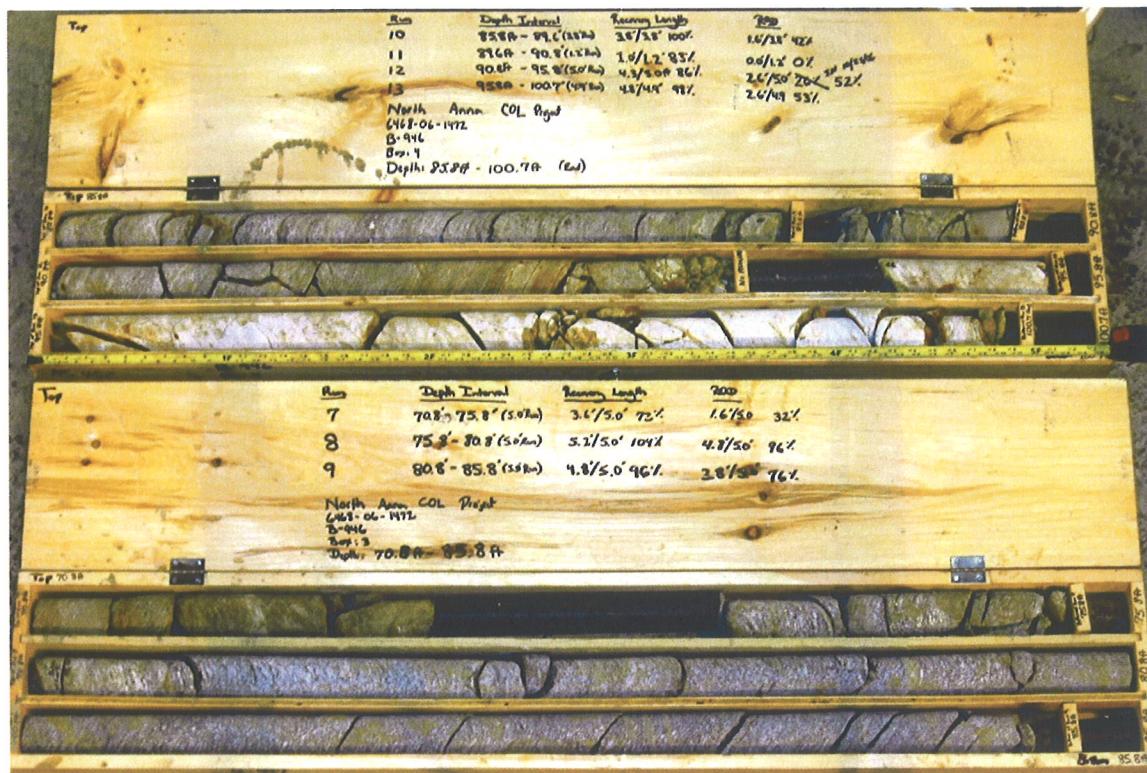
MACTEC PROJECT NO.: 6468-06-1472							COUNTY Louisa, VA			GEOLOGIST S. Nicely		
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)		
BORING NO. B-946			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE			0 HR. 25.0		
COLLAR ELEV. 333.4 ft (NAVD88)			NORTHING 3,908,787		US ft (NAD83)		EASTING 11,683,811		US ft (NAD83)		24 HR. ND	
TOTAL DEPTH 100.7 ft			DRILL MACHINE CME 550 ATV				DRILLER: G. Akins			HAMMER TYPE 140 lbs Auto		
DATE STARTED 10/23/06			COMPLETED 10/25/06				CORE BARREL TYPE: HQ 3 triple tube-wireline					
CORE SIZE HQ3			TOTAL RUN 58.8 ft									
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) % RQD (ft) %		SAMP. NO.	STRATA REC. (ft) % RQD (ft) %		L O G	DESCRIPTION AND REMARKS		
										Begin Coring @ 41.9 ft		
291.5	41.9	3.9	3:46 1:54 2:16 1:12/0.9	(3.1) 79%	(2.6) 67%	1				291.5	41.9	
287.6	45.8											
		4.9	1:29 1:32 2:16 2:20 1:31/0.9	(1.6) 33%	(1.3) 27%	2						
282.7	50.7											
		5.0	2:48 1:25 1:41 1:25 1:12	(4.2) 84%	(2.1) 42%	3						
277.7	55.7											
		5.0	1:05 1:26 1:31 1:49 1:42	(4.3) 86%	(3.5) 70%	4						
272.7	60.7											
		5.0	1:31 1:22 1:36 3:06 1:31	(4.9) 98%	(2.9) 58%	5						
267.7	65.7											
		5.1	2:05 2:09 1:10 1:15 1:09/1.1	(2.3) 45%	(1.9) 37%	6						
262.6	70.8											
		5.0	2:16 1:25 1:19 1:06 1:23	(3.6) 72%	(1.6) 32%	7						
257.6	75.8									257.6	75.8	
		5.0	1:16 1:26 1:20 1:20 1:10	(5.2) 104%	(4.8) 96%	8						
252.6	80.8											
		5.0	2:11 1:31 1:20 1:18 1:31	(4.8) 96%	(3.8) 76%	9						
247.6	85.8											
		3.8	1:31 1:47 2:08 3:16/0.8	(3.8) 100%	(1.6) 42%	10						
243.8	89.6											
242.6	90.8	1.2	5:15/1.2	(1.0) 83%	(0.0) 0%	11						
		5.0	2:18 2:24 4:15 2:23 3:17	(4.3) 86%	(2.6) 52%	12						
237.6	95.8											
		4.9	2:17 2:22 2:21 2:23 2:48/0.9	(4.8) 98%	(2.6) 53%	13						
232.7	100.7									232.7	100.7	
										Coring terminated at 100.7 ft in Hard Rock: Very hard, BIOTITE-QUARTZ GNEISS		

NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



B-946 - Box 1

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B-946 - Box 3

NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



MACTEC PROJECT NO.: 6468-06-1472				COUNTY Louisa, VA				GEOLOGIST S. Lehman										
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft) 0 HR. ND 24 HR. 19.5								
BORING NO. B-947		DRILL METHOD: Mud Rotary			SAMPLE METHODS: SPT													
COLLAR ELEV. 312.5 ft (NAVD88)		NORTHING 3,909,575		US ft (NAD83)		EASTING 11,686,367		US ft (NAD83)										
TOTAL DEPTH 88.8 ft		DRILL MACHINE CME 55LC Track			DRILLER: D. White				HAMMER TYPE 140 lbs Auto									
DATE STARTED 9/27/06			COMPLETED 9/28/06			CORE BARREL TYPE: NA												
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION					
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100								
237.7					Continued from previous page													
233.8	78.7										947-19		Weathered Rock: Light yellowish brown (2.5Y 6/4) and light brownish gray (2.5Y 6/2), moist, very dense, severely weathered, soft, QUARTZ GNEISS (continued)					
228.8	83.7										50/0.2							947-20
223.8	88.7										50/0.1							947-21
														88.8	Boring terminated at 88.8 ft in Weathered Rock: Very dense, severely weathered, soft, QUARTZ GNEISS			

NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL GDT 1/19/07

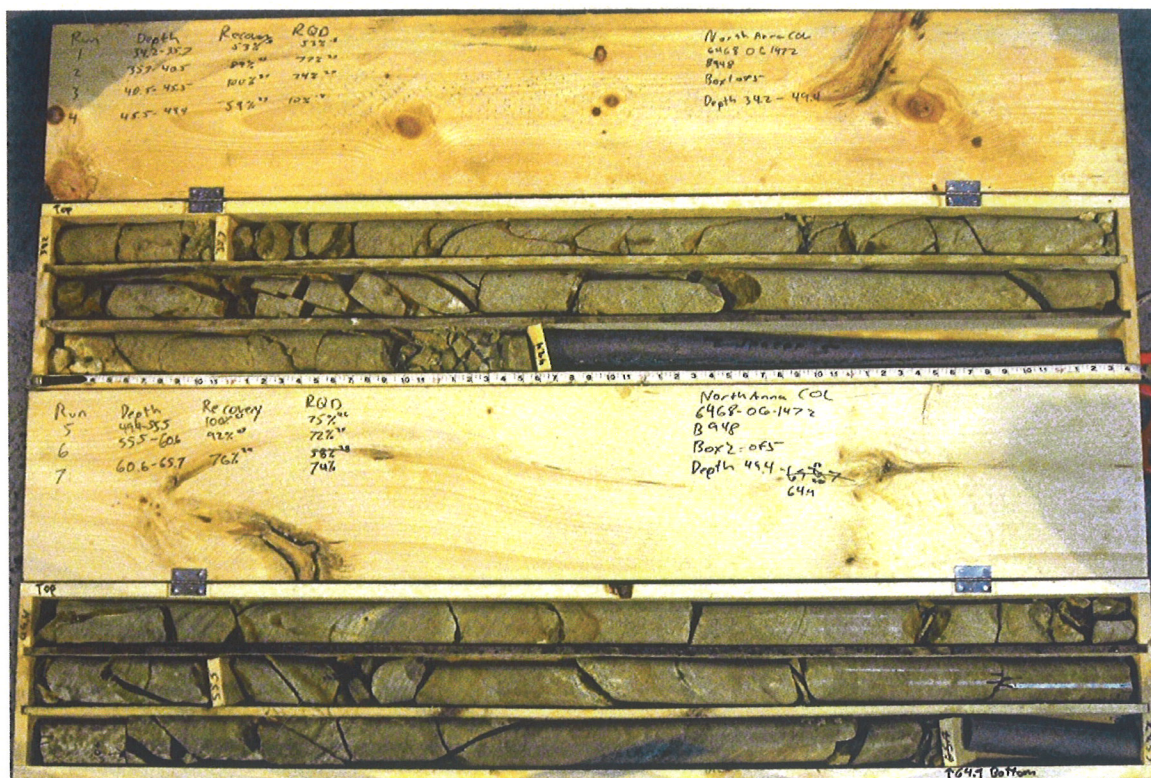
NORTH ANNA COL BURE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



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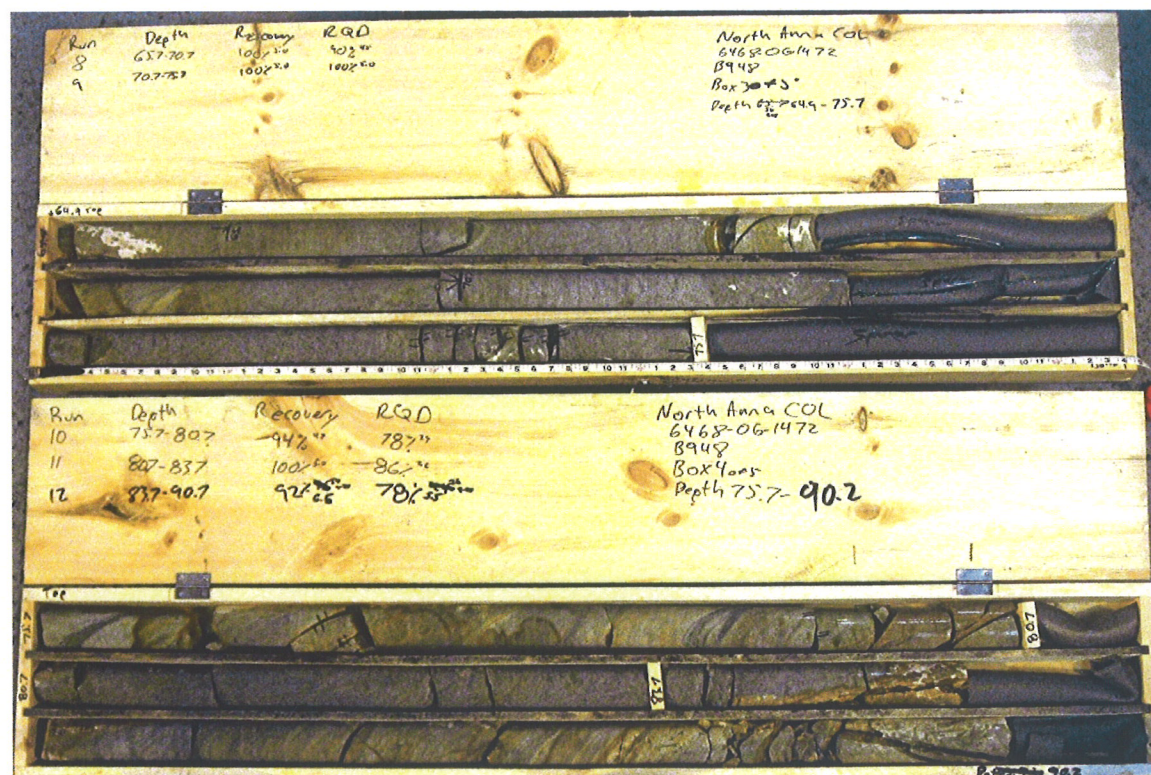
MACTEC PROJECT NO.: 6468-06-1472							COUNTY Louisa, VA			GEOLOGIST J. Howard		
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)		
BORING NO. B-948			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE			0 HR. 21.7		
COLLAR ELEV. 310.4 ft (NAVD88)			NORTHING 3,909,619		US ft (NAD83)		EASTING 11,685,566		US ft (NAD83)		24 HR. 21.7	
TOTAL DEPTH 100.6 ft			DRILL MACHINE CME 550 ATV				DRILLER: G. Akins			HAMMER TYPE 140 lbs Auto		
DATE STARTED 9/26/06			COMPLETED 9/28/06				CORE BARREL TYPE: HQ 3 triple tube-wireline					
CORE SIZE HQ3			TOTAL RUN 66.4 ft									
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %		RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %		RQD (ft) %	L O G	DESCRIPTION AND REMARKS
												Begin Coring @ 34.2 ft
276.2	34.2	1.5	1:30/1.5	(0.8)	(0.8)		1					Weathered Rock: Tan gray and brown tan, severely weathered, BIOTITE-QUARTZ GNEISS (continued) 36.2
274.7	35.7	4.8	1:15 1:30 1:30 1:15 1:30/0.8	53% (4.3) 90%	53% (3.7) 77%		2					Hard Rock: Tan brown, moderately severe to moderately weathered, close fracturing, medium hard, BIOTITE-QUARTZ GNEISS with severely weathered zones
269.9	40.5	5.0	2:15 1:00 1:15 1:30	(5.0) 100%	(3.7) 74%		3					(4 joints at 50°, 1 joint at 8°, 1 joint at 20°)
264.9	45.5	3.9	1:00 1:00 0:45 2:30/0.9	(2.3) 59%	(0.4) 10%		4					
261.0	49.4	6.1	1:30 1:45 1:45 1:00 1:30 1:30/1.1	(6.1) 100%	(4.6) 75%		5					Hard Rock: Orange tan and tan gray, moderately weathered to fresh, close to moderately close fracturing, medium hard to hard, BIOTITE-QUARTZ GNEISS (5 joints at 30°, 3 joints at 60-70°)
254.9	55.5	5.1	1:00 1:15 1:00 2:00 1:30/1.1	(4.7) 92%	(3.7) 73%	UC-56.8'						(3 joints at 40°, 1 joint at 10°)
249.8	60.6	5.1	1:30 1:30 1:30 1:15 2:15/1.1	(3.9) 76%	(3.8) 75%		7					
244.7	65.7	5.0	2:00 2:15 3:00 3:30 4:15	(5.0) 100%	(4.5) 90%		8					Hard Rock: Blue gray, slightly weathered to fresh, close to moderately close fracturing, hard, BIOTITE-QUARTZ GNEISS
239.7	70.7	5.0	3:15 1:45 1:45 2:30 3:15	(5.0) 100%	(5.0) 100%		9					(1 joint at 80°, 5 joints at 10°)
234.7	75.7	5.0	2:30 2:15 3:15 2:15 3:30	(4.7) 94%	(3.9) 78%	UC-76.1'						(2 joints at 30°, 3 joints at 50°)
229.7	80.7	3.0	5:30 8:45 10:45	(3.0) 100%	(2.6) 87%		11					(4 joints at 20-30°)
226.7	83.7	7.0	9:30 3:30 2:00 1:30 2:15 ND ND	(6.5) 93%	(5.5) 79%		12					
219.7	90.7	4.7	2:45 2:30 3:30 3:15 4:00/0.7	(4.7) 100%	(3.8) 81%		13					(2 joints at 70°, 3 joints at 10-20°, 2 joints at 40-50°)
215.0	95.4	5.2	4:15 4:00 4:00 3:30 3:33/1.2	(5.0) 96%	(4.6) 88%		14					(2 joints at 10°, 4 joints at 30-40°, 2 joints at 70°)
209.8	100.6											Coring terminated at 100.6 ft in Hard Rock: Hard, BIOTITE-QUARTZ GNEISS 100.6

NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL GDT 1/19/07



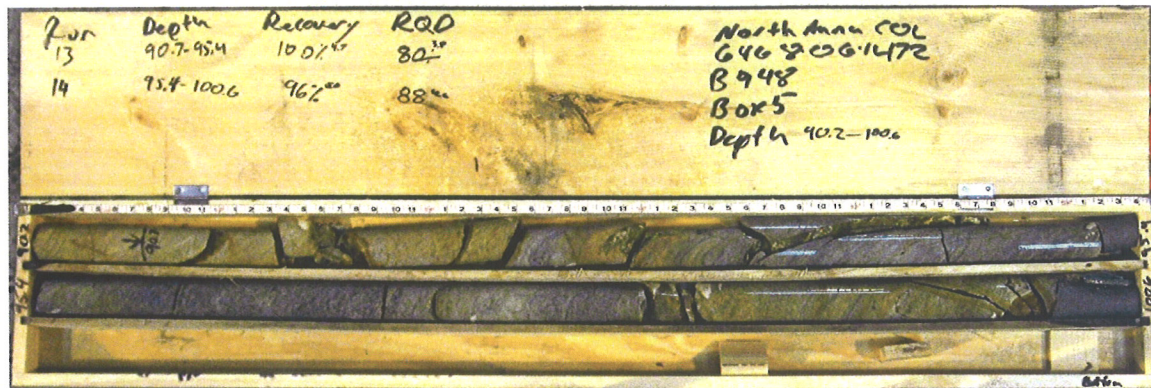
B-948 - Box 1

B-948 - Box 2



B-948 - Box 3

B-948 - Box 4



B-948 – Box 5



SHEET 2 OF 2

MACTEC PROJECT NO.: 6468-06-1472					COUNTY Louisa, VA					GEOLOGIST J. Lachewitz							
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)							
BORING NO. B-949			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 20.2						
COLLAR ELEV. 334.8 ft (NAVD88)			NORTHING 3,909,018		US ft (NAD83)		EASTING 11,685,157		US ft (NAD83)		24 HR. ND						
TOTAL DEPTH 106.4 ft			DRILL MACHINE CME 550 ATV				DRILLER: G. Akins				HAMMER TYPE 140 lbs Auto						
DATE STARTED 8/11/06			COMPLETED 8/15/06				CORE BARREL TYPE: HQ 3 triple tube-wireline										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION				
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100							
260.0					Continued from previous page												
													258.4 76.4 Hard Rock: Gray to white, moderately to slightly weathered, close to moderately close fracturing, medium hard to hard, QUARTZ-BIOTITE GNEISS with trace magnetite				
													228.4 106.4 Boring and coring terminated at 106.4 ft in Hard Rock: Moderately hard, QUARTZ-BIOTITE GNEISS				

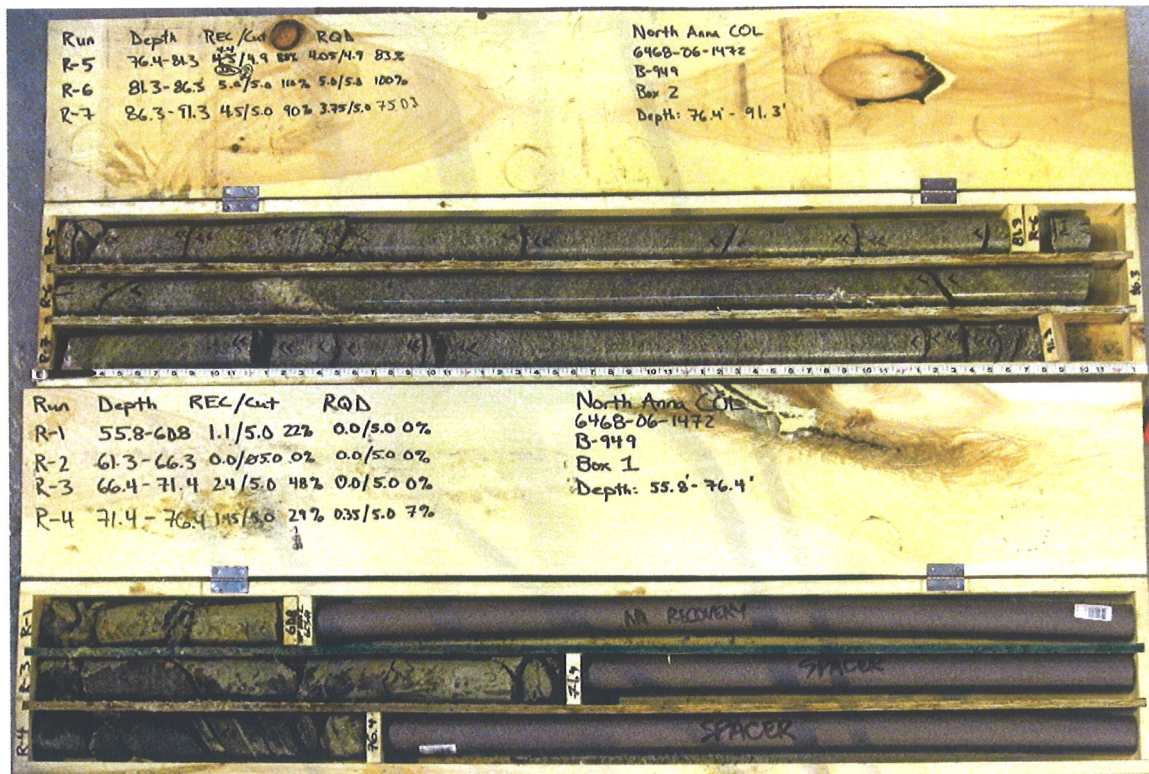
NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL GDT 1/19/07



SHEET 1 OF 1

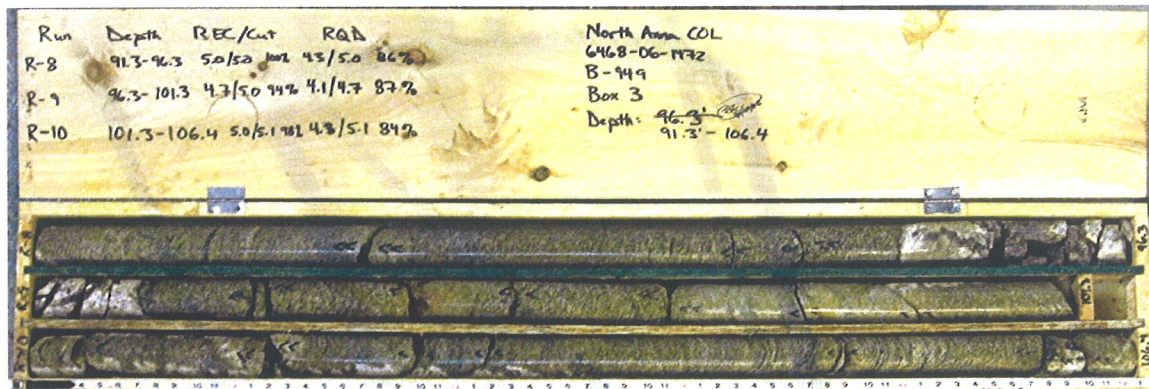
MACTEC PROJECT NO.: 6468-06-1472							COUNTY Louisa, VA			GEOLOGIST J. Lachewitz		
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)		
BORING NO. B-949		DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 20.2		
COLLAR ELEV. 334.8 ft (NAVD88)		NORTHING 3,909,018		US ft (NAD83)		EASTING 11,685,157		US ft (NAD83)		24 HR. ND		
TOTAL DEPTH 106.4 ft		DRILL MACHINE CME 550 ATV				DRILLER: G. Akins				HAMMER TYPE 140 lbs Auto		
DATE STARTED 8/11/06				COMPLETED 8/15/06				CORE BARREL TYPE: HQ 3 triple tube-wireline				
CORE SIZE HQ3				TOTAL RUN 50.0 ft								
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %	RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	RQD (ft) %	L O G	DESCRIPTION AND REMARKS		
										Begin Coring @ 56.1 ft		
278.7	56.1	4.7	0:57 2:22 1:17 1:50 1:02/0.7	(1.1) 23%	(0.0) 0%	1					Weathered Rock: Brown, black, and very dark gray, severely weathered, very close to close fracturing, very soft to soft, BIOTITE GNEISS (continued) -Poor Recovery	
274.0	60.8											
273.5	61.3	5.0	N=50/0.5 1:41 1:32 1:27 1:38 1:43	(0.0) 0%	(0.0) 0%	949-15 2					-No Recovery	
268.5	66.3											
268.3	66.5	4.9	N=50/0.2 4:49 2:58 5:50 3:01 2:43/0.9	(2.4) 49%	(0.0) 0%	949-16 3					-Poor Recovery	
263.4	71.4											
		5.0	3:33 3:34 2:46 1:27 2:20	(1.5) 30%	(0.0) 0%	4					-Poor Recovery	
258.4	76.4											
		4.9	1:35 1:39 1:46 1:33 2:09/0.9	(4.3) 88%	(4.1) 84%	5					Hard Rock: Gray to white, moderately to slightly weathered, close to moderately close fracturing, medium hard to hard, QUARTZ-BIOTITE GNEISS with trace magnetite (5 joints at 0-30° with Fe stain) (2 joints at 45-55° with Fe stain)	
253.5	81.3											
		5.0	1:35 2:22 2:24 2:31 4:10	(5.0) 100%	(5.0) 100%	6						
248.5	86.3											
		5.0	2:00 1:00 1:47 1:28 1:41	(4.5) 90%	(3.8) 76%	7					(4 joints at 10-40°)	
243.5	91.3											
		5.0	1:28 2:00 1:59 1:15 2:53	(5.0) 100%	(4.3) 86%	8					(5 joints at 5-45°)	
238.5	96.3											
		5.0	1:07 1:19 1:09 0:55 1:30	(4.7) 94%	(4.4) 88%	9					(Multiple joints at 0-75°)	
233.5	101.3											
		5.1	1:02 1:22 1:22 1:07 1:32/1.1	(5.0) 98%	(4.3) 84%	10					(Multiple joints at 0-75°)	
228.4	106.4										Coring terminated at 106.4 ft in Hard Rock: Moderately hard, QUARTZ-BIOTITE GNEISS	

NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



B-949 - Box 2

B-949 - Box 1



B-949 - Box 3



SHEET 1 OF 2

MACTEC PROJECT NO.: 6468-06-1472				COUNTY Louisa, VA				GEOLOGIST S. Nicely						
SITE DESCRIPTION NORTH ANNA COL								GROUND WATER (ft)						
BORING NO. B-950		DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 10.4				
COLLAR ELEV. 282.5 ft (NAVD88)		NORTHING 3,910,836		US ft (NAD83)		EASTING 11,686,282		US ft (NAD83)		24 HR. 41.1				
TOTAL DEPTH 100.8 ft		DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson				HAMMER TYPE 140 lbs Auto				
DATE STARTED 8/11/06		COMPLETED 8/15/06				CORE BARREL TYPE: HQ 3 triple tube-wireline								
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
282.5					Ground Surface							282.5	0.0	
281.0	1.5									950-1		Silty, fine to coarse SAND (SM) yellowish brown (10YR 5/4), moist, loose to very loose, trace gravel (Fill)		
279.0	3.5	3	5	5						950-2				
276.5	6.0	2	3	1						950-3				
274.0	8.5	WOH	WOH	2						950-4		275.2	7.3	Sandy SILT (ML) yellowish brown (10YR 5/6), moist, medium stiff, trace clay (Residual Soil)
271.4	11.1	4	4	4						950-5		272.0	10.5	
269.0	13.5	4	5	8						950-6		Silty, fine to coarse SAND (SM) yellowish brown (10YR 5/6) to dark yellowish brown (10YR 4/4&4/6), moist, medium dense to dense, trace gravel (Residual Soil)		
263.8	18.7	5	7	14										
258.8	23.7	11	17	19						950-7		Weathered Rock: Dark yellowish brown (10YR 4/6) and very dark greenish gray (GLY 1 3/1), moist to dry, very dense, severely weathered, BIOTITE GNEISS		
253.8	28.7	28	50/0.5							950-8			261.5	21.0
248.8	33.7	50/0.3								950-9				
243.8	38.7	50/0.2								950-10				
238.8	43.7	50/0.3								950-11				
233.8	48.7	50/0.3								950-12				
232.2	50.3	50/0.3								950-13		232.2	50.3	Hard Rock: Dark gray, slightly to very slightly weathered, very close to moderately close fracturing, hard, QUARTZ-BIOTITE GNEISS
		50/0.0								950-14				
												218.7	63.8	Hard Rock: Dark gray, very slightly weathered to fresh, very close to wide fracturing, hard to very hard, QUARTZ-BIOTITE GNEISS

NORTH ANNA COL. CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



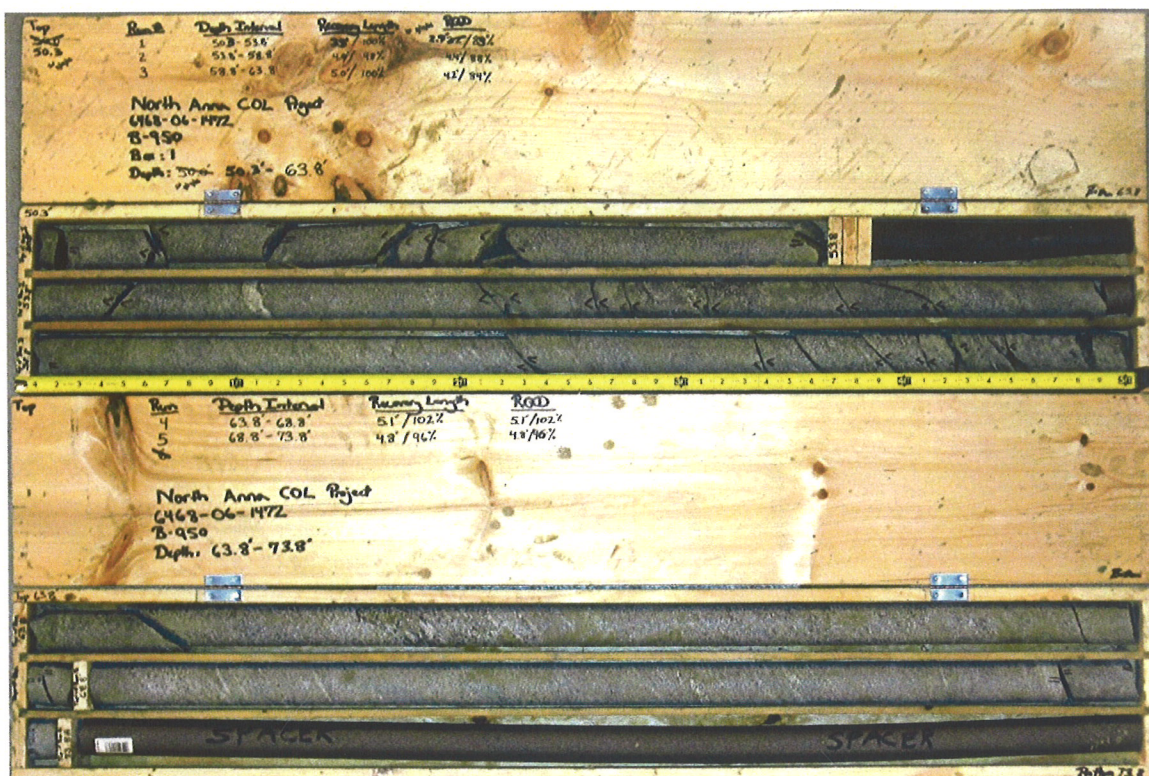
MACTEC PROJECT NO.: 6468-06-1472					COUNTY Louisa, VA					GEOLOGIST S. Nicely							
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)							
BORING NO. B-950			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE				0 HR. 10.4						
COLLAR ELEV. 282.5 ft (NAVD88)			NORTHING 3,910,836		US ft (NAD83)		EASTING 11,686,282		US ft (NAD83)		24 HR. 41.1						
TOTAL DEPTH 100.8 ft			DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson				HAMMER TYPE 140 lbs Auto						
DATE STARTED 8/11/06			COMPLETED 8/15/06				CORE BARREL TYPE: HQ 3 triple tube-wireline										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION				
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100							
207.7					Continued from previous page												
													Hard Rock: Dark gray, very slightly weathered to fresh, very close to wide fracturing, hard to very hard, QUARTZ-BIOTITE GNEISS (continued)				
													181.7	100.8	Boring and coring terminated at 100.8 ft in Hard Rock: Very hard, QUARTZ-BIOTITE GNEISS		



SHEET 1 OF 1

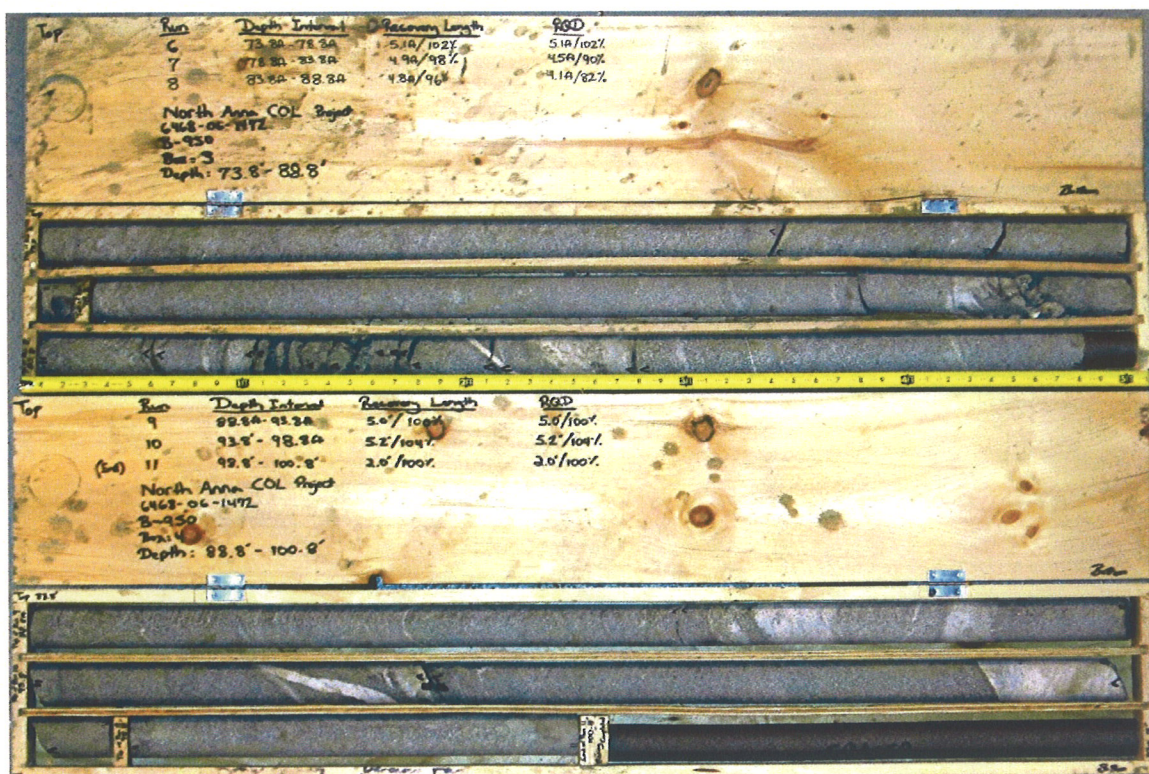
MACTEC PROJECT NO.: 6468-06-1472							COUNTY Louisa, VA			GEOLOGIST S. Nicely		
SITE DESCRIPTION NORTH ANNA COL										GROUND WATER (ft)		
BORING NO. B-950			DRILL METHOD: Mud Rotary/Core				SAMPLE METHODS: SPT/CORE			0 HR. 10.4		
COLLAR ELEV. 282.5 ft (NAVD88)			NORTHING 3,910,836		US ft (NAD83)		EASTING 11,686,282		US ft (NAD83)		24 HR. 41.1	
TOTAL DEPTH 100.8 ft			DRILL MACHINE CME 55 Truck				DRILLER: H. Meyerson			HAMMER TYPE 140 lbs Auto		
DATE STARTED 8/11/06				COMPLETED 8/15/06			CORE BARREL TYPE: HQ 3 triple tube-wireline					
CORE SIZE HQ3				TOTAL RUN 50.5 ft								
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC. (ft) %	RQD (ft) %	SAMP. NO.	REC. (ft) %	RQD (ft) %	L O G	DESCRIPTION AND REMARKS		
										Begin Coring @ 50.3 ft		
232.2	50.3	3.5	N=50/0.0 2:57/0.5	(3.5) 100%	(2.9) 83%	1				232.2	Hard Rock: Dark gray, slightly to very slightly weathered, very close to moderately close fracturing, hard, QUARTZ-BIOTITE GNEISS	
228.7	53.8		1:50								(2 joints at 40-50° with clay; 2 joints at 10-20°; 1 joint at 50-60°; severely weathered zone from 52.3-52.5 ft)	
		5.0	1:58			2					(1 joint at 70-80° with chlorite; 3 joints at 20-30° with clay; 3 joints at 30-40° with clay)	
			1:39	(4.9) 98%	(4.4) 88%							
			2:03									
223.7	58.8		2:14									
		5.0	2:08			3					(6 joints at 40-50° and 3 joints at 20-30° with moderate weathering)	
			2:35									
			2:34	(5.0) 100%	(4.2) 84%							
218.7	63.8		2:16							218.7	Hard Rock: Dark gray, very slightly weathered to fresh, very close to wide fracturing, hard to very hard, QUARTZ-BIOTITE GNEISS	
		5.0	2:10	(5.1) 102%	(5.1) 102%	4					(1 joint at 40-50°)	
			1:44									
213.7	68.8		1:34									
		5.0	2:25			5					-No Joints	
			1:44	(4.8) 96%	(4.8) 96%							
			1:51									
208.7	73.8		1:24									
		5.0	1:37			6					(1 joint at 20-30° with clay)	
			1:46	(5.1) 102%	(5.1) 102%							
			2:36									
203.7	78.8		2:31									
		5.0	1:30			7					(1 joint at 20-30°; Quartz vein from 83.0-83.4 ft)	
			1:42	(4.9) 98%	(4.5) 90%							
			1:23									
198.7	83.8		1:47									
		5.0	1:34			8					(2 joints at 10-20° with Fe stain; Quartz vein from 86.2-86.5 ft with small vugs and epidote mineralization; highly fractured, severely weathered zone from 84.8-85.5 ft)	
			1:47	(4.8) 96%	(4.1) 82%							
			2:01									
		5.0	1:46									
193.7	88.8		2:02									
			2:23			9					(1 joint at 10-20° with trace clay)	
		5.0	2:20	(5.0) 100%	(5.0) 100%							
			2:10									
			2:11									
			2:18									
188.7	93.8		3:17									
		5.0	2:00			10					(2 joints at 20-30°)	
			2:43	(5.2) 104%	(5.2) 104%							
			1:53									
			1:58									
183.7	98.8		1:54									
		2.0	3:34			11					-No Joints	
181.7	100.8		2:09	(2.0) 100%	(2.0) 100%					181.7	Coring terminated at 100.8 ft in Hard Rock: Very hard, QUARTZ-BIOTITE GNEISS	
			2:03									

NORTH ANNA COL CORE NORTH ANNA COL DATA REPORT REV0.GPJ NORTH ANNA COL.GDT 1/19/07



B-950 - Box 1

B-950 - Box 2



B-950 - Box 3

B-950 - Box 4