

GEOTECHNICAL BORING LOG

Prepared By J.P. 24 Date 8-19-08

Checked By 552 Date 8/19/08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: R. Clark				
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-750 (Miller)			DRILLER: G.Bilbrey/P.McKorkle/J.Tucker			GROUND WATER (ft)				
BORING NO.: B-620(DH)			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -1.5 ft (NAVD88)			NORTHING: 397,395 US ft (NAD83/90)			EASTING: 876,648 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 215.0 ft		BORING DIAMETER: 4" to 215.0'				CASING DEPTH: 4" to 105.5'				HAMMER (ID): 140 lb. Auto (07)			
DATE STARTED: 3/18/08		COMPLETED: 3/23/08		CORE SIZE: HQ3		BITS USED: 3 7/8" Tricone							
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
-1.5					Ground Surface								
-1.5	0.0	WOH	WOH	WOH	0							-1.5	MUCK, light gray (2.5Y7/2), to grayish brown (2.5Y5/2), very soft, wet, strong HCl reaction, mostly organics
-4.0	2.5											-4.5	
-6.5	5.0	3	9	12									LIMESTONE, boundstone, pale yellow (5Y8/2), soft, wet, friable, strong HCl reaction, oolitic (Miami Formation)
-9.0	7.5	10	9	8									5.0ft: very soft, fossiliferous
-11.5	10.0	8	6	5									
-13.9	12.4	7	11	21									10.0ft: medium hard, moderately indurated
-16.4	14.9	17	20	10									12.4ft: soft
-21.0	19.5	14	16	31									14.9ft: moderately hard
-26.0	24.5	13	7	7									19.5ft: very soft
-27.0	25.5	50/0.4										-25.5	LIMESTONE, boundstone, pale yellow (5Y8/2), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)
-32.0	30.5												25.5ft: Switch sampling method to coring
-37.0	35.5												25.5ft: white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones
-42.0	40.5												26.0ft: loss of circulation
-47.0	45.5												30.5ft: medium hard, moderately indurated, recrystallized calcite, few vugs
-52.0	50.5												35.5ft: moderately hard, coralline
-57.0	55.5												40.5ft: hard, indurated
-62.0	60.5												45.5 to 47.7ft: light bluish gray (5PB7/1), locally interconnected vugs and filled with recrystallized calcite, horizontal bedding plane at 47.7ft
-67.0	65.5												LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, few gastropod shell molds and casts, vertical fractures filled with calcite and cemented sand, strong HCl reaction, horizontal bedding planes at 48.7ft and 49.0ft (Lower Fort Thompson Formation)
-72.0	70.5												50.5ft: trace vugs, porous
													55.5ft: trace sand, bedding planes at 56.1ft and 57.7ft
													65.5ft: soft to moderately hard, friable to indurated
													65.7 to 83.0ft: thin sand interbeds



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: R. Clark						
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-750 (Miller)				DRILLER: G.Bilbrey/P.McKorkle/J.Tucker				GROUND WATER (ft)				
BORING NO.: B-620(DH)				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA				
GROUND ELEV.: -1.5 ft (NAVD88)				NORTHING: 397,395 US ft (NAD83/90)				EASTING: 876,648 US ft (NAD83/90)				24 HR. NA				
TOTAL DEPTH: 215.0 ft				BORING DIAMETER: 4" to 215.0'				CASING DEPTH: 4" to 105.5'				HAMMER (ID): 140 lb. Auto (07)				
DATE STARTED: 3/18/08				COMPLETED: 3/23/08				CORE SIZE: HQ3				BITS USED: 3 7/8" Tricone				
ELEV.	DEPTH	BLOW COUNT			BLOWS PER FOOT						SAMP.	LOG	SOIL AND ROCK DESCRIPTION			
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20	40	60	80	100	NO.			MOI		
-76.3					Continued from previous page											
-77.0	75.5															LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, few gastropod shell molds and casts, vertical fractures filled with calcite and cemented sand, strong HCl reaction, horizontal bedding planes at 48.7ft and 49.0ft (Lower Fort Thompson Formation) (continued)
-82.0	80.5															75.5ft: hard, indurated
-87.0	85.5															80.5ft: soft to hard, friable to indurated
-92.0	90.5															Silty SAND (SM), white (5Y8/1), wet, fine grained sand, strong HCl reaction
-97.0	95.5															LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones, few vugs
-102.0	100.5															90.5ft: medium hard to hard, friable to indurated
-107.0	105.5															95.5ft: hard, indurated
-112.0	110.5															100.5ft: little vugs
-117.0	115.5															110.5ft: hard to soft, indurated to friable
-122.0	120.5	15	15	36												GRAVEL with sand (GM), pale yellow (5Y8/3), very dense, wet, fine to coarse grained sand, fine to coarse gravel, strong HCl reaction, trace shell fragments, cemented sand fragments (Tamiami Formation)
																120.5ft: switch sampling method to SPT
-131.5	130.0	3	5	6												Silty SAND (SM), light greenish gray (10Y7/1), medium dense, wet, strong HCl reaction, fine grained sand
-140.0	138.5	5	3	6												138.5ft: loose
-150.0	148.5	5	8	12												148.5ft: light olive gray (5Y6/2), medium dense

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/19/08



SHEET 3 OF 3

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: R. Clark													
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-750 (Miller)		DRILLER: G.Bilbrey/P.McKorkle/J.Tucker		GROUND WATER (ft)													
BORING NO.: B-620(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA													
GROUND ELEV.: -1.5 ft (NAVD88)		NORTHING: 397,395 US ft (NAD83/90)		EASTING: 876,648 US ft (NAD83/90)		24 HR. NA													
TOTAL DEPTH: 215.0 ft		BORING DIAMETER: 4" to 215.0'		CASING DEPTH: 4" to 105.5'		HAMMER (ID): 140 lb. Auto (07)													
DATE STARTED: 3/18/08		COMPLETED: 3/23/08		CORE SIZE: HQ3		BITS USED: 3 7/8" Tricone													
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									
-151.1					Continued from previous page														
-160.0	158.5	3	4	8											620(DH)-14		Silty SAND (SM), light greenish gray (10Y7/1), medium dense, wet, strong HCl reaction, fine grained sand (continued)		
-170.0	168.5	7	8	10											620(DH)-15		158.5ft: olive gray (5Y5/2)		
-180.0	178.5	3	4	6											620(DH)-16		178.5ft: loose		
-190.0	188.5	4	3	9											620(DH)-17		188.5ft: medium dense		
-200.0	198.5	5	6	9											620(DH)-18		198.5ft: trace limestone fragments		
-215.0	213.5	4	5	8											620(DH)-19				
																	-216.5	215.0	Boring Terminated at Elevation -216.5 ft

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/19/08



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: R. Clark			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-750 (Miller)				DRILLER: G.Bilbrey/P.McKorkle/J.Tucker				GROUND WATER (ft)	
BORING NO.: B-620(DH)				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)				NORTHING: 397,395 US ft (NAD83/90)				EASTING: 876,648 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 215.0 ft				CASING DEPTH: 4" to 105.5'						HAMMER (ID): 140 lb. Auto (07)			
DATE STARTED: 3/18/08		COMPLETED: 3/23/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)							
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 @ 25.5 ft	
-27.0	25.5	5.0	1:38 2:55 3:04 4:12 4:33	(5.0) 100%	(4.5) 90%		RUN-1	(20.7) 93%	(18.2) 82%			LIMESTONE, boundstone, pale yellow (5Y8/2), hard, wet, strong HCl reaction (Upper Fort Thompson Formation) (continued) 25.5ft: white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones	
-32.0	30.5	5.0	2:25 2:01 1:55 1:38 1:23	(3.7) 74%	(1.7) 34%		RUN-2					26.0ft: loss of circulation 30.5ft: medium hard, moderately indurated, recrystallized calcite, few vugs	
-37.0	35.5	5.0	1:49 2:18 1:53 2:21 2:22	(4.8) 96%	(4.8) 96%		RUN-3					35.5ft: moderately hard, coralline	
-42.0	40.5	5.0	2:57 2:55 2:59 3:43 3:30	(5.0) 100%	(5.0) 100%		RUN-4 620DH- CS-02					40.5ft: hard, indurated	
-47.0	45.5	5.0	2:25 2:33 2:25 2:31 2:02	(5.0) 100%	(5.0) 100%		RUN-5					45.5 to 47.7ft: light bluish gray (5PB7/1), locally interconnected vugs and filled with recrystallized calcite, horizontal bedding plane at 47.7ft	
-52.0	50.5	5.0	1:57 2:55 0:55 0:22 0:25	(4.5) 90%	(3.6) 72%		RUN-6 620DH- CS-03	(28.7) 81%	(19.5) 55%			LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, few gastropod shell molds and casts, vertical fractures filled with calcite and cemented sand, strong HCl reaction, horizontal bedding planes at 48.7ft and 49.0ft (Lower Fort Thompson Formation) 50.5ft: trace vugs, porous	
-57.0	55.5	5.0	0:20 0:40 0:44 0:44 0:45	(3.6) 72%	(2.5) 50%		RUN-7					55.5ft: trace sand, bedding planes at 56.1ft and 57.7ft	
-62.0	60.5	5.0	1:45 1:48 1:32 0:58 1:22	(4.1) 82%	(3.4) 68%		RUN-8 620DH- CS-04						
-67.0	65.5	5.0	2:30 2:22 2:41 2:23 2:01	(3.4) 68%	(2.0) 40%		RUN-9					65.5ft: soft to moderately hard, friable to indurated 65.7 to 83.0ft: thin sand interbeds	
-72.0	70.5	5.0	1:53 1:35 1:50 1:05 1:33	(3.1) 62%	(0.6) 12%		RUN-10						
-77.0	75.5	5.0	0:55 2:01 2:12 1:55 2:23	(4.7) 94%	(2.9) 58%		RUN-11					75.5ft: hard, indurated 80.5ft: soft to hard, friable to indurated	
-82.0	80.5	5.0	2:01 1:12 1:28 2:48 2:06	(3.3) 66%	(1.7) 34%		RUN-12						
-87.0	85.5	5.0	0:41 1:14 1:52 1:47 1:49	(5.0) 100%	(4.0) 80%		RUN-13	(2.8) 62%	(NA)			Silty SAND (SM), white (5Y8/1), wet, fine grained sand, strong HCl reaction	
-92.0	90.5	5.0	0:30 1:39 2:01 1:08 1:21	(4.1) 82%	(2.7) 54%		RUN-14	(21.3) 76%	(15.7) 56%			LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones, few vugs 90.5ft: medium hard to hard, friable to indurated	
-97.0	95.5	5.0	0:37 0:20 0:31 0:56 1:03	(2.7) 54%	(1.2) 24%		RUN-15					95.5ft: hard, indurated	
-102.0	100.5												

TURKEY POINT COL CORE TURKEY POINT GJT TURKEY POINT COL GDT 8/19/08

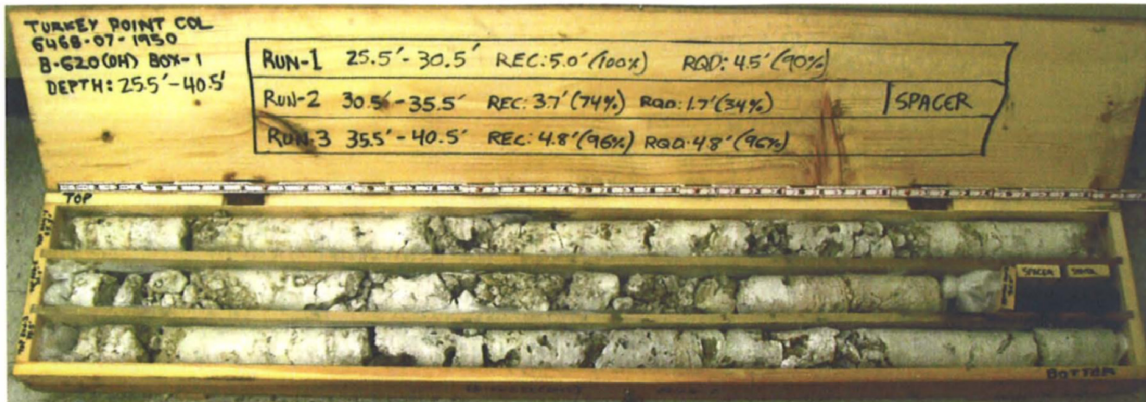


SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: R. Clark
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-750 (Miller)	DRILLER: G.Billbrey/P.McKorkle/J.Tucker	GROUND WATER (ft)
BORING NO.: B-620(DH)	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,395 US ft (NAD83/90)	EASTING: 876,648 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 215.0 ft	CASING DEPTH: 4" to 105.5'	HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 3/18/08	COMPLETED: 3/23/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Continued from previous page
-107.0	105.5	5.0	0:36 0:49 0:38 0:44 0:45	(4.0) 80%	(3.3) 66%	RUN-16				LIMESTONE, boundstone, white (5Y8/1), hard, indurated, fossiliferous, strong HCl reaction, sandy zones, few vugs (<i>continued</i>) 100.5ft: little vugs
-112.0	110.5	5.0	1:06 0:59 0:36 1:08 0:43	(4.7) 94%	(3.8) 76%	RUN-17				
-117.0	115.5	5.0	0:40 0:05 1:57 1:10 1:23	(2.8) 56%	(1.7) 34%	RUN-18				110.5ft: hard to soft, indurated to friable
-122.0	120.5	5.0	0:33 0:53 0:45 0:42 1:14	(1.5) 30%	(0.0) 0%	RUN-19				GRAVEL with sand (GM), pale yellow (5Y8/3), very dense, wet, fine to coarse grained sand, fine to coarse gravel, strong HCl reaction, trace shell fragments, cemented sand fragments (Tamiami Formation)
										Coring Terminated at Elevation -122.0

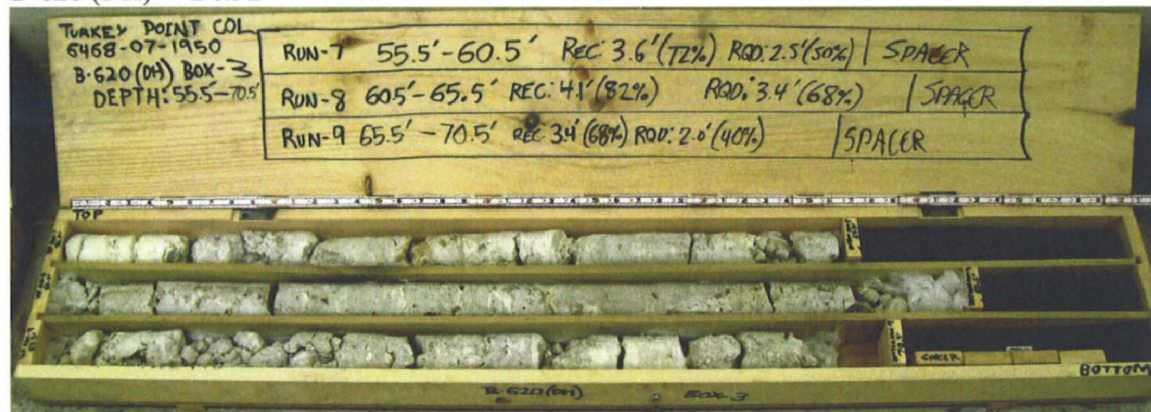
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/19/08



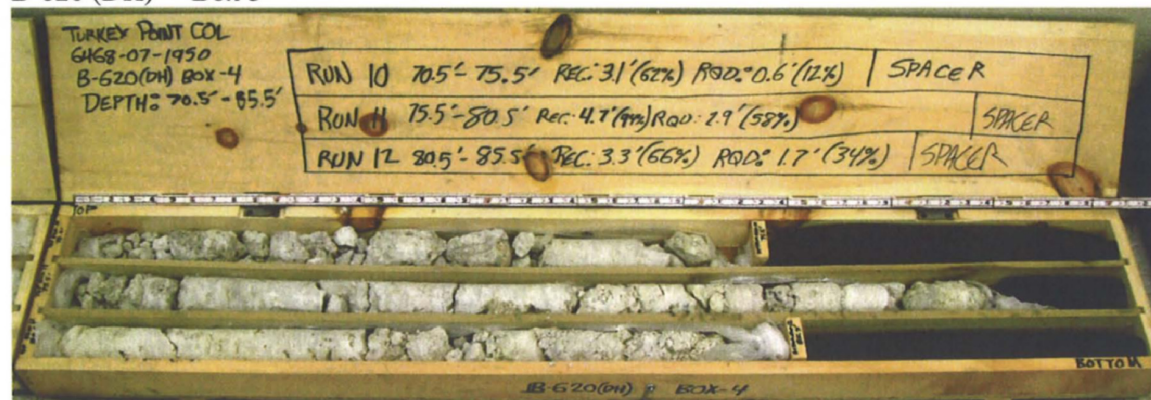
B-620 (DH) – Box 1



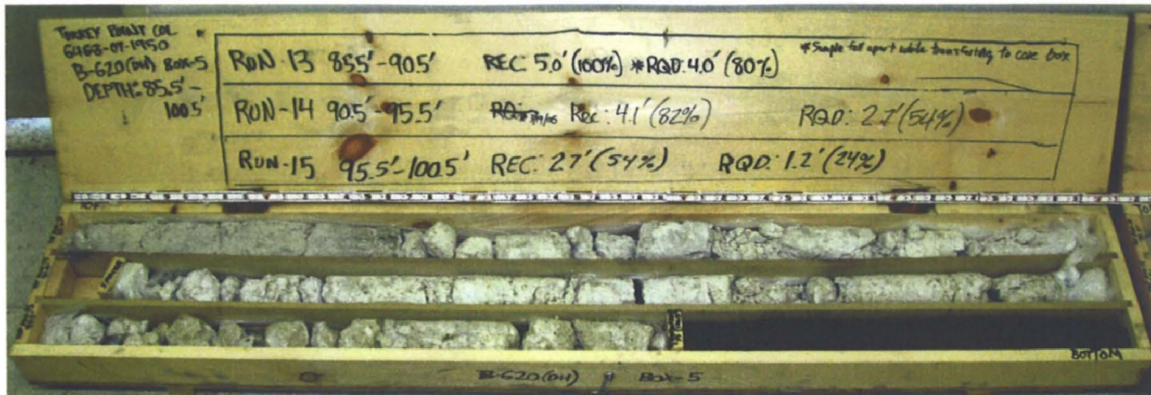
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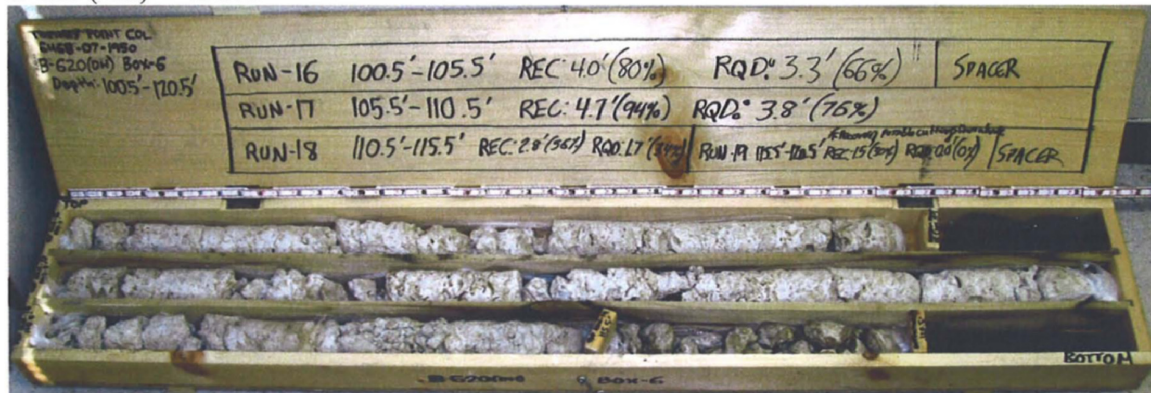
B-620 (DH) – Box 3



B-620 (DH) – Box 4



B-620 (DH) - Box 5



B-620 (DH) - Box 6



GEOTECHNICAL BORING LOG

Prepared By 2274 Date 5-30-08
Checked By PM Date 5-30-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: G. Pillappa				
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-55 LC (RAL)			DRILLER: R. Banks/ J. Rosser			GROUND WATER (ft)				
BORING NO.: B-621			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: 0.2 ft (NAVD88)			NORTHING: 397,368 US ft (NAD83/90)			EASTING: 876,949 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 126.5 ft			BORING DIAMETER: 4" to 27.9', 3" to 126.5'			CASING DEPTH: 4" to 27.9', 3" to 115.3'			HAMMER (ID): 140 lb. Auto (MEC-02)				
DATE STARTED: 4/3/08			COMPLETED: 4/4/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Tricone				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
0.2					Ground Surface							0.2	0.0
0.2	0.0	1	1	WOH	1						621-1		MUCK, very dark gray (10Yr3/1), very soft, dry, mostly organic, strong HCl reaction
-2.6	2.8	1	WOH	WOH	1						621-2		
-4.9	5.1	1	2	9	1						621-3		Field notes do not indicate that sample 621-3 was split into separate jars
-7.3	7.5	5	5	6	1						621-4		LIMESTONE, boundstone, white (10YR8/1), very soft, wet, strong HCl reaction, oolitic (Miami Formation)
-9.6	9.8	11	12	7							621-5		
-11.8	12.0	11	16	17							621-6		12.0ft: medium hard
-14.3	14.5	6	9	13							621-7		14.5ft: soft, fossiliferous
-18.3	18.5	7	6	3							621-8		18.5ft: very soft
-23.3	23.5	3	4	2							621-9		
-28.3	28.5										621-10		LIMESTONE, boundstone, white (10YR8/1), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)
-28.8	29.0	50/0.5									RUN-1		29.0ft: Switch sampling method to coring
-30.1	30.3										RUN-2		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs
-35.1	35.3										RUN-3		30.3ft: coralline
-40.1	40.3										RUN-4		
-45.1	45.3										621-CS-01		45.3 to 48.3ft: light gray (10YR7/1), trace recrystallized calcite
-50.1	50.3										RUN-5		
-55.1	55.3										RUN-6		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation)
-60.1	60.3										RUN-7		50.3ft: trace shell molds, trace fine sand
-65.1	65.3										RUN-8		60.3ft: trace to few shell molds
-70.1	70.3										RUN-9		65.3ft: sandy
											RUN-10		70.3ft: few to little shell molds and casts

TURKEY POINT COL BORE TURKEY POINT GP TURKEY POINT COL GDT 5/30/08



SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-55 LC (RAL)		DRILLER: R. Banks/ J. Rosser		GROUND WATER (ft)	
BORING NO.: B-621		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: 0.2 ft (NAVD88)		NORTHING: 397,368 US ft (NAD83/90)		EASTING: 876,949 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 126.5 ft		BORING DIAMETER: 4" to 27.9', 3" to 126.5'		CASING DEPTH: 4" to 27.9', 3" to 115.3'		HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 4/3/08		COMPLETED: 4/4/08		CORE SIZE: HQ3		BITS USED: 2 7/8" Tricone	

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					
-74.6					Continued from previous page										
-75.1	75.3														LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-80.1	80.3														75.3 to 80.3ft: possible thin interbeds of sand and friable limestone
-85.1	85.3														80.3ft: trace to few shell molds and casts, few vugs
-90.1	90.3														
-95.1	95.3														95.3ft: moderately hard to hard, moderately indurated to indurated, sandy
-100.1	100.3														
-105.1	105.3														105.3ft: hard, indurated
-110.1	110.3														110.3ft: pale yellow (5Y8/2), to greenish gray (5GY6/1)
-115.1	115.3	3	5	12											POORLY GRADED SAND with silt (SP-SM), greenish gray (5GY6/1), medium dense, moist, fine to medium grained sand, strong HCl reaction, trace shell fragments, little fines (Tamiami Formation)
															115.3ft: Switch sampling method to SPT
-124.8	125.0	7	14	11											Silty SAND (SM), greenish gray (5GY6/1), medium dense, moist, fine to medium grained sand, strong HCl reaction, trace shell fragments, little fines
															Boring Terminated at Elevation -126.3 ft

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa		
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-55 LC (RAL)				DRILLER: R. Banks/ J. Rosser			GROUND WATER (ft) 0 HR. NA 24 HR. NA	
BORING NO.: B-621				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				
GROUND ELEV.: 0.2 ft		(NAVD88)		NORTHING: 397,368 US ft (NAD83/90)				EASTING: 876,949 US ft (NAD83/90)				
TOTAL DEPTH: 126.5 ft				CASING DEPTH: 4" to 27.9', 3" to 115.3'						HAMMER (ID): 140 lb. Auto (MEC-02)		
DATE STARTED: 4/3/08		COMPLETED: 4/4/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)						
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 @ 29.0 ft
-28.8	29.0	1.3	0.45	(1.2)	(0.6)		RUN-1	(19.1)	(13.5)			LIMESTONE, boundstone, white (10YR8/1), hard, wet, strong HCl reaction (Upper Fort Thompson Formation) (continued) LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few vugs 30.3ft: coralline
-30.1	30.3	5.0	0.18/0.3	92%	46%		RUN-2	99%	70%			
			0.39	(4.9)	(3.2)							
			0.34	98%	64%							
			0.26									
-35.1	35.3	5.0	0.26									
			0.29	(5.0)	(3.3)		RUN-3					
			0.20	100%	66%							
			0.23									
			0.22									
			0.20									
-40.1	40.3	5.0	0.25	(5.0)	(4.2)		RUN-4					
			0.23	100%	84%							
			0.26									
			0.22									
-45.1	45.3	5.0	0.28				621-CS-01					
			0.39	(4.5)	(3.7)		RUN-5					45.3 to 48.3ft: light gray (10YR7/1), trace recrystallized calcite
			0.43	90%	74%							
			0.41									
-50.1	50.3	5.0	0.41	(4.3)	(4.0)		RUN-6	(40.6)	(23.7)			LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation)
			0.39	86%	80%			61%	36%			50.3ft: trace shell molds, trace fine sand
			1.01									
			0.59	(0.5)	(0.0)		RUN-7					
			0.43	10%	0%							
			0.35									
-55.1	55.3	5.0	0.40	(4.1)	(1.6)		RUN-8					60.3ft: trace to few shell molds
			1.01	82%	32%							
			0.40									
			1.12									
			1.25									
-60.1	60.3	5.0	0.44	(1.3)	(0.0)		RUN-9					65.3ft: sandy
			0.38	26%	0%							
			0.36									
			0.30									
			0.27									
-65.1	65.3	5.0	0.28	(2.6)	(1.6)		RUN-10					70.3ft: few to little shell molds and casts
			0.24	52%	32%							
			0.39									
			0.24									
			0.37	(0.5)	(0.0)		RUN-11					75.3 to 80.3ft: possible thin interbeds of sand and friable limestone
			0.32	10%	0%							
			0.22									
			0.11									
			0.13									
-80.1	80.3	5.0	0.37	(3.1)	(1.7)		RUN-12					80.3ft: trace to few shell molds and casts, few vugs
			0.24	62%	34%							
			0.18									
			0.11									
			0.22									
-85.1	85.3	5.0	0.23	(4.6)	(2.2)		RUN-13					
			0.24	92%	44%							
			0.38									
			0.36									
			0.40									
			0.37									
-90.1	90.3	5.0	0.48	(4.1)	(1.9)		RUN-14					
			0.38	82%	38%							
			0.19									
			0.25									
			0.34									
-95.1	95.3	5.0	0.41	(2.9)	(2.1)		RUN-15					95.3ft: moderately hard to hard, moderately indurated to indurated, sandy
			0.30	58%	42%							
			0.24									
			0.21									
			0.18									
-100.1	100.3	5.0	0.19	(2.2)	(0.0)		RUN-16					
			0.24	44%	0%							
			0.26									

TURKEY POINT COL CORE TURKEY POINT COL GPI TURKEY POINT COL CDT 5.30.08

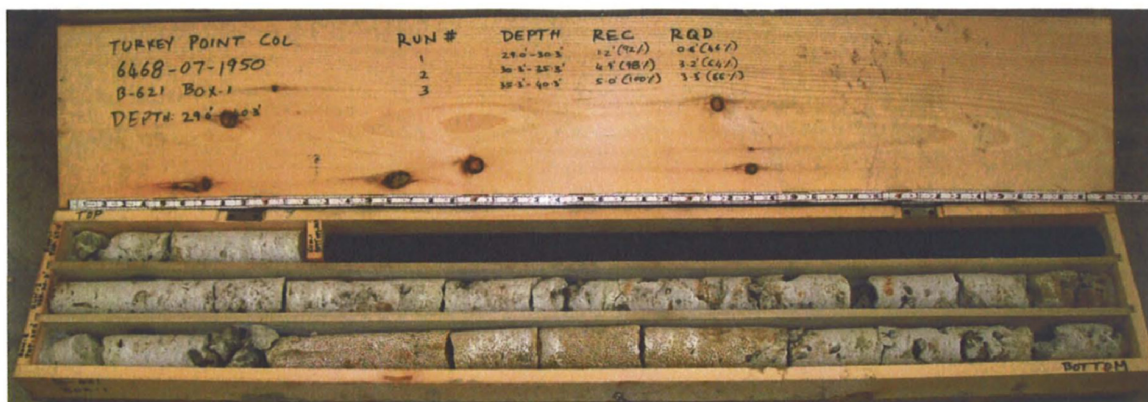


SHEET 2 OF 2

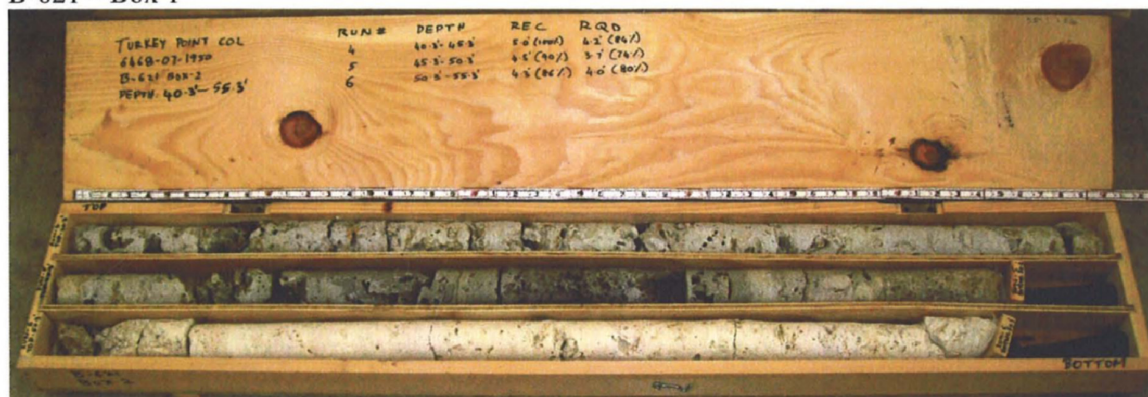
BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa		
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-55 LC (RAL)				DRILLER: R. Banks/ J. Rosser				GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-621				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				
GROUND ELEV.: 0.2 ft (NAVD88)		NORTHING: 397,368 US ft (NAD83/90)		EASTING: 876,949 US ft (NAD83/90)								
TOTAL DEPTH: 126.5 ft				CASING DEPTH: 4" to 27.9', 3" to 115.3'						HAMMER (ID): 140 lb. Auto (MEC-02)		
DATE STARTED: 4/3/08		COMPLETED: 4/4/08		CORE SIZE: HQ3		CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)						

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS
				REC. (ft) %	ROD (ft) %		REC. (ft) %	ROD (ft) %		
										Continued from previous page
-105.1	105.3	5.0	0:34 0:31 0:25 0:24 0:21 0:20 0:19	(4.9) 98%	(4.6) 92%	RUN-17 621-CS-04				LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, trace shells, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued) 105.3ft. hard, indurated
-110.1	110.3	5.0	0:26 0:23 0:29 0:19 0:21	(4.0) 80%	(2.5) 50%	RUN-18				110.3ft. pale yellow (5Y8/2), to greenish gray (5GY6/1)
-115.1	115.3						(0.0) 0%	(NA)		POORLY GRADED SAND with silt (SP-SM), greenish gray (5GY6/1), medium dense, moist, fine to medium grained sand, strong HCl reaction, trace shell fragments, little fines (Tamiami Formation) Coring Terminated at Elevation -115.5

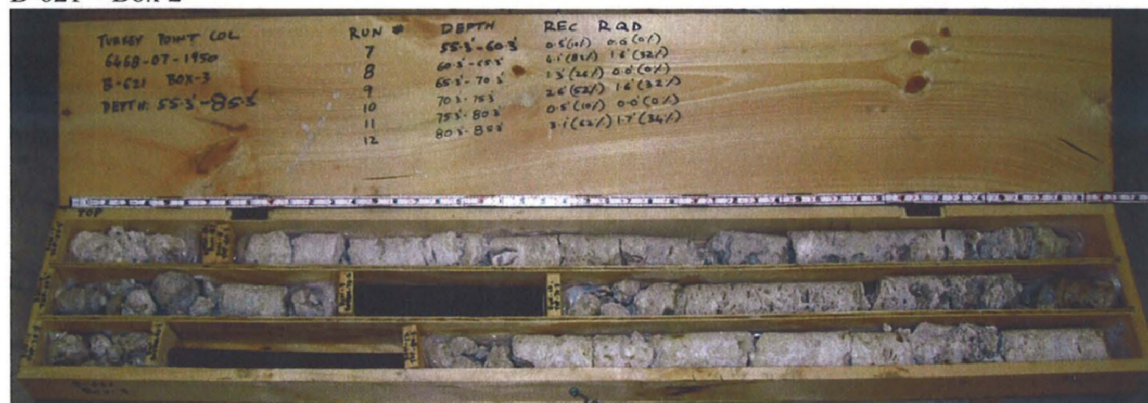
TURKEY POINT COL CORE, TURKEY POINT GPJ, TURKEY POINT COL GDI 5/30/08



B-621 - Box 1



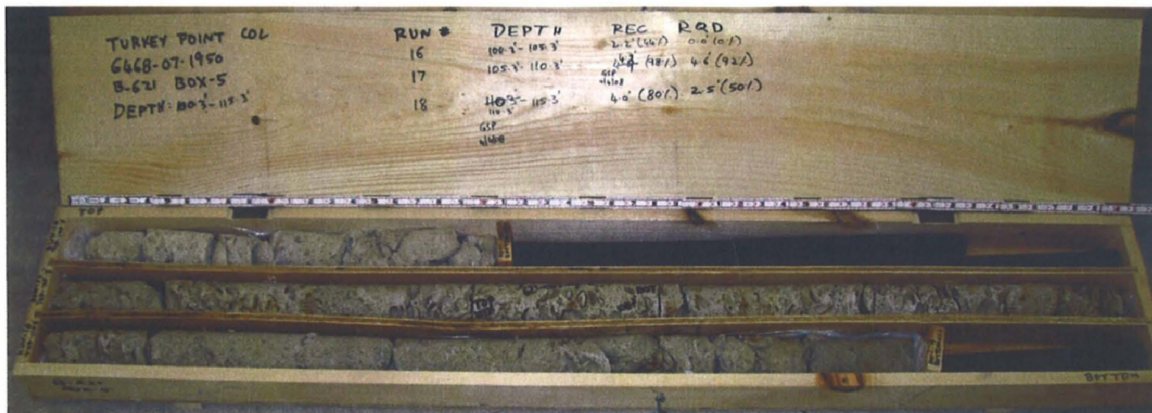
B-621 - Box 2



B-621 - Box 3



B-621 - Box 4



B-621 - Box 5

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa			
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-55 LC (RAL)					DRILLER: R. Banks/ J. Rosser				GROUND WATER (ft)	
BORING NO.: B-622					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: 0.2 ft (NAVD88)					NORTHING: 397,421 US ft (NAD83/90)					EASTING: 876,811 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 100.2 ft			BORING DIAMETER: 4" to 28.9', 3" to 100.2'					CASING DEPTH: 4" to 28.9'				HAMMER (ID): 140 lb. Auto (MEC-02)			
DATE STARTED: 4/4/08			COMPLETED: 4/6/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Tricone						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT						SAMP. NO.	▼ MOI	L O G	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100					
0.2					Ground Surface										
0.2	0.0	WOH	1	WOH	●1						622-1		0.2	0.0	
-2.3	2.5	WOH	WOH	WOH	WOH						622-2				
-4.9	5.1				●0						622-3		-5.4	5.6	
-7.1	7.3	3	12	18							622-4				
-9.8	10.0	7	7	9	●16						622-5				
-12.3	12.5	5	7	8	●15						622-6				
-14.5	14.7	22	21	18						●39	622-7				
		7	12	16						●28					
-18.3	18.5									●55	622-8				
		3	12	43											
-23.3	23.5										622-9				
		3	13	20						●33					
-28.3	28.5												-25.8	26.0	
-29.0	29.2										622-10				
-30.0	30.2	7	50/0.1							57/0.6	RUN-1				
											RUN-2				
-35.0	35.2														
											RUN-3				
-40.0	40.2														
											RUN-4				
-45.0	45.2														
											RUN-5				
-50.0	50.2												-47.6	47.8	
											RUN-6				
-55.0	55.2														
											RUN-7				
-60.0	60.2														
											RUN-8				
-65.0	65.2														
											RUN-9				
-70.0	70.2														
											RUN-10				

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: G. Pillappa			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-55 LC (RAL)				DRILLER: R. Banks/ J. Rosser				GROUND WATER (ft)	
BORING NO.: B-622				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: 0.2 ft (NAVD88)				NORTHING: 397,421 US ft (NAD83/90)				EASTING: 876,811 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 100.2 ft				BORING DIAMETER: 4" to 28.9', 3" to 100.2'				CASING DEPTH: 4" to 28.9'				HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 4/4/08				COMPLETED: 4/6/08				CORE SIZE: HQ3				BITS USED: 2 7/8" Tricone	
ELEV.	DEPTH	BLOW COUNT			BLOWS PER FOOT						SAMP.	LOG	SOIL AND ROCK DESCRIPTION
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20	40	60	80	100	NO.		
-74.6					Continued from previous page								
-75.0	75.2										RUN-11		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, trace vugs, trace to few gastropod shell molds and casts, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-80.0	80.2										RUN-12		75.2ft: moderately hard to hard, moderately indurated
-85.0	85.2										RUN-13		80.2ft: moderately hard, moderately indurated
-90.0	90.2										RUN-14		85.2ft: trace fine grained sand
-95.0	95.2										RUN-15		90.2ft: hard, indurated, few to little shell molds and casts
													95.2ft: moderately hard to hard, moderately indurated, trace shell molds and casts
													-100.0
													100.2
													Boring Terminated at Elevation -100.0 ft

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8:14:08