



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: H. Lyatuu/G. Pillappa			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (CLT)				DRILLER: Warren/Banks/Sloan/Rosser			GROUND WATER (ft)		
BORING NO.: B-611				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core			0 HR. NA		
GROUND ELEV.: -1.5 ft (NAVD88)				NORTHING: 397,087 US ft (NAD83/90)				EASTING: 876,735 US ft (NAD83/90)			24 HR. NA		
TOTAL DEPTH: 151.5 ft				CASING DEPTH: 4" to 25.0', 3" to 120.1'						HAMMER (ID): 140 lb. Auto (MEC-04)			
DATE STARTED: 2/26/08		COMPLETED: 3/24/08		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 @ 25.9 ft			
-27.4	25.9	5.0	1.37 2.11 1.48 2.10 4.14	(4.7) 94%	(4.0) 80%	RUN-1 611-CS-01	(20.6) 94%	(18.5) 84%		LIMESTONE, boundstone, white (7.5YR8/1), hard, wet, strong HCl reaction, trace shells (Upper Fort Thompson Formation) (continued) 25.9ft: white (10YR8/1), hard, indurated, fossiliferous, coralline, strong HCl reaction, little vugs			
-32.4	30.9	5.0	1.31 1.11 1.10 1.40 1.25	(5.0) 100%	(5.0) 100%	RUN-2							
-37.4	35.9	3.7	1.34 1.11 1.34	(3.7) 100%	(3.7) 100%	RUN-3 611-CS-02				35.9ft: few vugs			
-41.1	39.6		2.14/0.7										
-42.4	40.9	1.3	5.16/1.3	(1.3) 100%	(0.7) 54%	RUN-4				40.9 to 41.5ft: Drilled out/washed out due to rig change and tool change			
-43.0	41.5	3.6	0.32 0.49 0.39 0.21/0.6	(3.3) 92%	(3.0) 83%	RUN-5 611-CS-03							
-46.6	45.1	5.0	0.49 0.41 0.40 0.30 0.41	(4.8) 96%	(4.3) 86%	RUN-6				45.1ft: gray (5Y6/1) to 47.9ft			
-51.6	50.1						(37.5) 74%	(21.1) 42%	-49.4	LIMESTONE, boundstone, white (10YR8/1), to white (5YR8/1), hard, indurated, strong HCl reaction, trace shells, few vugs (Lower Fort Thompson Formation) 50.1ft: white (5YR8/1)			
-56.6	55.1	5.0	0.52 0.46 0.28 0.27 0.18	(4.9) 98%	(3.0) 60%	RUN-7							
-61.6	60.1	5.0	0.26 0.17 0.24 0.23 0.30	(4.6) 92%	(4.0) 80%	RUN-8							
-66.6	65.1	5.0	0.37 0.28 0.26 0.32 0.34	(2.1) 42%	(0.6) 12%	RUN-9							
-71.6	70.1	5.0	0.33 0.40 0.28 0.36 0.27	(4.6) 92%	(2.2) 44%	RUN-10 611-CS-05							
-76.6	75.1	5.0	0.16 0.27 0.30 0.19 0.41	(2.6) 52%	(1.4) 28%	RUN-11				70.1ft: trace fine sand			
-81.6	80.1	5.0	0.18 0.28 0.22 0.28 0.50	(1.2) 24%	(0.0) 0%	RUN-12							
-86.6	85.1	5.0	0.42 0.19 0.33 0.18 0.21	(2.0) 40%	(0.5) 10%	RUN-13							
-91.6	90.1	5.0	0.28 0.30 0.28 0.48 0.37	(4.4) 88%	(2.0) 40%	RUN-14							
-96.6	95.1	5.0	0.14 0.23 0.23 0.18 0.21	(4.9) 98%	(3.8) 76%	RUN-15 611-CS-06							
-101.6	100.1	5.0	0.13 0.12 0.15 0.16 0.15	(3.6) 72%	(1.4) 28%	RUN-16	(1.8) 30%	(NA)	-100.2	Silty SAND (SM), white (5Y8/1), wet, some shell fragments, strong HCl reaction, grades to limestone			

TURKEY POINT COL CORE, TURKEY POINT GPJ, 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: H. Lyatuu/G. Pillappa
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (CLT)	DRILLER: Warren/Banks/Sloan/Rosser	GROUND WATER (ft)
BORING NO.: B-611	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,087 US ft (NAD83/90)	EASTING: 876,735 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 151.5 ft	CASING DEPTH: 4" to 25.0', 3" to 120.1'	HAMMER (ID): 140 lb. Auto (MEC-04)	
DATE STARTED: 2/26/08	COMPLETED: 3/24/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

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
										Continued from previous page
-106.6	105.1	5.0	0:40 0:32 0:39 0:37 0:40	(2.2) 44%	(0.0) 0%	RUN-17				Silty SAND (SM), white (5Y8/1), wet, some shell fragments, strong HCl reaction, grades to limestone <i>(continued)</i>
-111.6	110.1	5.0	0:24 0:25 0:26 0:21 0:27	(4.8) 96%	(4.3) 86%	RUN-18 611-CS-07	(7.6) 92%	(4.8) 58%		LIMESTONE, boundstone, white (5Y8/1), hard, indurated, sandy, fossiliferous, strong HCl reaction, few vugs, little shell molds and casts
-116.6	115.1	5.0	0:18 0:20 0:23 0:16 0:17	(2.4) 48%	(0.5) 10%	RUN-19				
-121.6	120.1	5.0	0:12 0:14 0:10 0:14 0:17	(0.0) 0%	(0.0) 0%	RUN-20	(0.0) 0%	(NA)		Silty SAND with gravel (SM), light brownish gray (10YR6/2), medium dense, wet, fine to coarse grained sand, fine to coarse gravel, weak HCl reaction (Tamiami Formation)
										Coring Terminated at Elevation -121.6

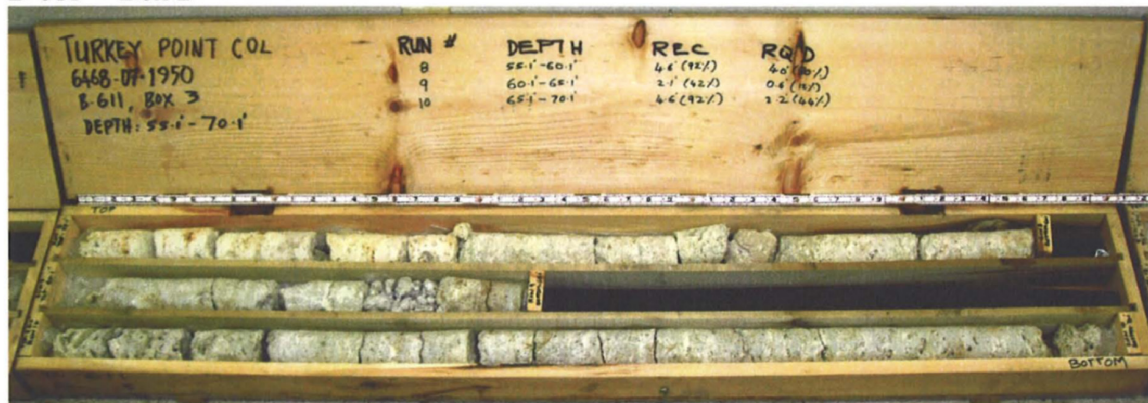
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5:30:08



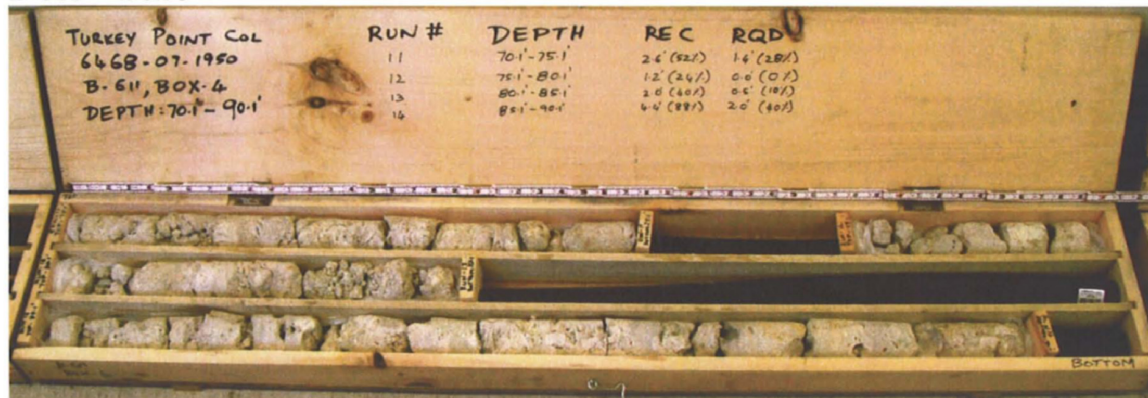
B-611 - Box 1



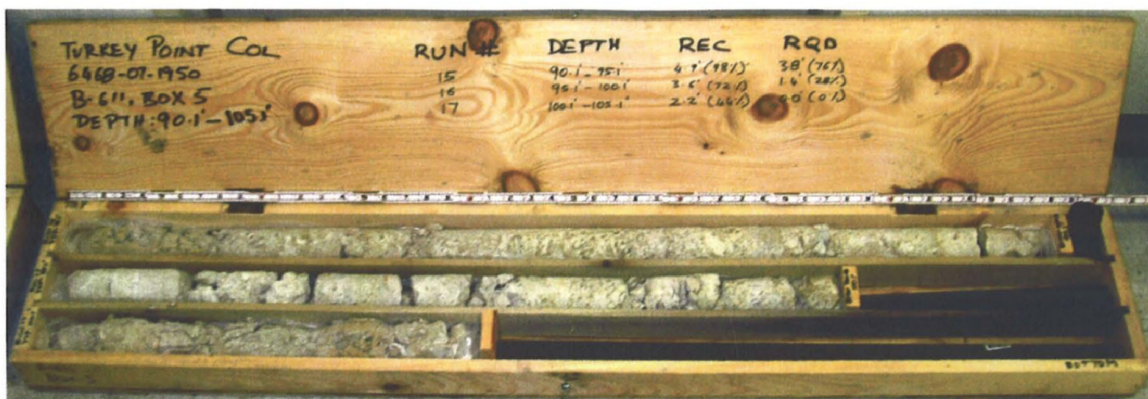
B-611 - Box 2



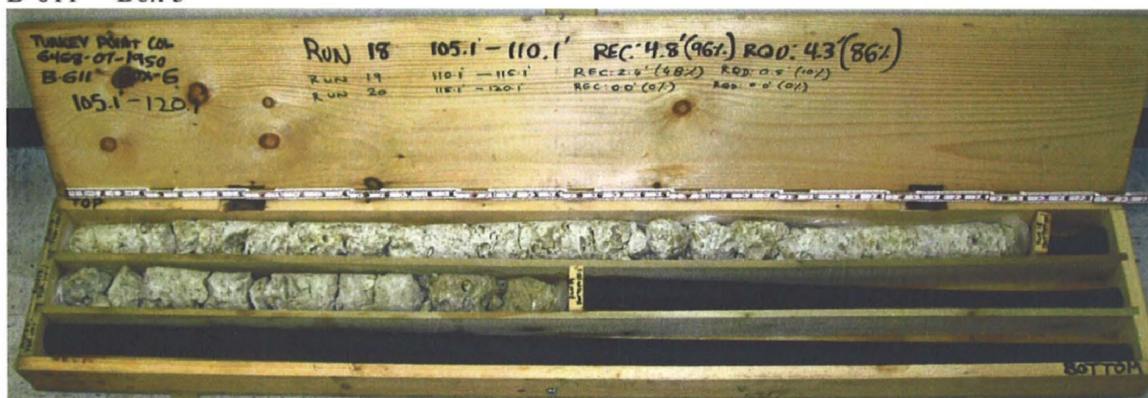
B-611 - Box 3



B-611 - Box 4



B-611 - Box 5



B-611 - Box 6

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade			GEOLOGIST: L. Bisson				
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-550 (ATL)					DRILLER: L. Carter/ J. Landeros					GROUND WATER (ft)		
BORING NO.: B-612					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.5 ft (NAVD88)					NORTHING: 397,086 US ft (NAD83/90)					EASTING: 876,869 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 125.1 ft			BORING DIAMETER: 4" to 16.0', 3" to 125.1'					CASING DEPTH: 4" to 16.0', 3" to 118.6'					HAMMER (ID): 140 lb. Auto (MEC-03)				
DATE STARTED: 3/25/08			COMPLETED: 3/26/08			CORE SIZE: HQ3			BITS USED: 4" & 3" Roller Cones								
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							
-1.5					Ground Surface												
-1.5	0.0	WOR	WOR	WOR	0						612-1		-1.5	MUCK, grayish brown (2.5Y5/2), very soft, wet, no HCl reaction			
-4.0	2.5										612-2A&B		-4.5				
-6.5	5.0	4	5	8		13					612-3			LIMESTONE, boundstone, pale yellow (2.5Y8/3), very soft, wet, sandy, strong HCl reaction, oolitic (Miami Formation)			
-9.0	7.5	7	11	10		21					612-4			5.0ft: soft			
-11.5	10.0	5	6	7		13					612-5			7.5ft: white (2.5Y8/1), to light gray (2.5Y7/1), very soft			
-14.0	12.5	4	4	6		10					612-6			10.0ft: white (2.5Y8/1)			
-16.5	15.0	4	8	8		16					612-7			12.5ft: white (2.5Y8/1), to gray (2.5Y6/1), fossiliferous			
-17.9	16.4	12	15	50/0.4						65/0.9	612-7			15.0ft: white (2.5Y8/1), hard			
-19.6	18.1										RUN-1			16.4ft: Switch sampling method to coring			
											RUN-2			16.4ft: white (10YR8/1), mottled light brownish gray (10YR6/1), hard, indurated, strong HCl reaction, oolitic, vertical solution cavities			
														18.1ft: fossiliferous, few vugs			
-24.6	23.1										RUN-3		-25.5				
														LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), hard, indurated, fossiliferous, trace sand, trace recrystallized calcite, strong HCl reaction, few vugs (Upper Fort Thompson Formation)			
-29.6	28.1										RUN-4						
-34.6	33.1										RUN-5			27.0ft: loss of circulation			
														28.1ft: white (10YR8/1), to gray (10YR5/1), to olive yellow (10YR6/8)			
-39.6	38.1										RUN-6			33.1ft: white (10YR8/1), moderately hard to hard			
-44.6	43.1										RUN-7			43.1ft: white (10YR8/1), to gray (10YR5/1) at 45.5ft to 47.5ft, hard, little vugs			
-49.6	48.1										RUN-8		-49.0				
														LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)			
-54.6	53.1										RUN-9			52.1 to 53.1ft: soft			
														53.1ft: white (10YR8/1), soft to hard, moderately indurated to indurated, sandy			
-59.6	58.1										RUN-10						
-64.6	63.1										RUN-11			58.1ft: white (10YR8/1), to light gray (10YR7/1), hard, indurated			
-69.6	68.1										RUN-12						
-74.6	73.1										RUN-13						

TURKEY POINT COL BORE TURKEY POINT GPI TURKEY POINT COL GDI 8/14/08



SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: L. Bisson				
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-550 (ATL)			DRILLER: L. Carter/ J. Landeros			GROUND WATER (ft)				
BORING NO.: B-612			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -1.5 ft (NAVD88)			NORTHING: 397,086 US ft (NAD83/90)			EASTING: 876,869 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 125.1 ft			BORING DIAMETER: 4" to 16.0', 3" to 125.1'			CASING DEPTH: 4" to 16.0', 3" to 118.6'			HAMMER (ID): 140 lb. Auto (MEC-03)				
DATE STARTED: 3/25/08			COMPLETED: 3/26/08			CORE SIZE: HQ3			BITS USED: 4" & 3" Roller Cones				
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			
-76.3					Continued from previous page								
-79.6	78.1										RUN-14		LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-83.6	82.1												
-84.6	83.1										RUN-15 RUN-16		82.1ft: moderately hard, some vugs 83.1ft: hard, few vugs
-89.6	88.1										RUN-17		88.1ft: moderately hard
-94.6	93.1										RUN-18		93.1ft: hard, interbedded sand lenses
-99.6	98.1										RUN-19		98.1ft: few shell molds and casts
-104.6	103.1										RUN-20		
-109.6	108.1										RUN-21		108.1ft: white (10YR8/1), to light gray (10YR7/2), to greenish gray (10Y5/1), hard to moderately hard
-114.6	113.1										RUN-22		113.1ft: greenish gray (10Y5/1), hard
-120.1	118.6	3	3	2							612-R		-116.5 Silty SAND (SM), gray (2.5Y6/1), loose, wet, fine grained sand, strong HCl reaction (Tamiami Formation) 118.6ft: Switch sampling method to SPT
-125.1	123.6	6	25	12							612-9A&B		-126.2 123.6ft: light gray (10YR7/1), hard, medium to coarse grained sand, some shell fragments SILT (ML), light olive gray (5Y6/2), very stiff, wet, strong HCl reaction Boring Terminated at Elevation -126.6 ft

TURKEY POINT COL BORE TURKEY POINT COL GDT 8/14/08



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: L. Bisson			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (ATL)				DRILLER: L. Carter/ J. Landeros				GROUND WATER (ft)	
BORING NO.: B-612				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)				NORTHING: 397,086 US ft (NAD83/90)				EASTING: 876,869 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 125.1 ft				CASING DEPTH: 4" to 16.0', 3" to 118.6'						HAMMER (ID): 140 lb. Auto (MEC-03)			
DATE STARTED: 3/25/08		COMPLETED: 3/26/08		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 @ 16.4 ft	
-17.9	16.4	1.7	1:42	(1.7)	(1.0)	RUN-1	(2.5)	(1.0)				LIMESTONE, boundstone, pale yellow (2.5Y8/3), very soft, wet, sandy, strong HCl reaction, oolitic (Miami Formation) (continued) 16.4ft: white (10YR8/1), mottled light brownish gray (10YR6/1), hard, indurated, strong HCl reaction, oolitic, vertical solution cavities 18.1ft: fossiliferous, few vugs	
-19.6	18.1	5.0	1:06/0.7	100%	59%	RUN-2	33%	13%					
			0:48	(0.5)	(0.0)								
			0:27	10%	0%								
			0:35										
			0:40										
			0:44										
-24.6	23.1	5.0	0:46	(4.4)	(2.8)	RUN-3	(20.0)	(14.8)				-25.5	
			1:53	88%	56%								
			0:45										
			0:28										
			0:31										
-29.6	28.1	5.0	0:09	(1.5)	(0.0)	RUN-4							
			0:03	30%	0%								
			0:22										
			0:05										
			0:51										
-34.6	33.1	5.0	1:46	(5.0)	(3.5)	RUN-5							
			0:55	100%	70%								
			0:58										
			0:58										
			1:20										
-39.6	38.1	5.0	1:47	(5.0)	(4.5)	RUN-6							
			1:22	100%	90%								
			1:27										
			1:04										
			1:10										
-44.6	43.1	5.0	1:23	(5.0)	(4.6)	RUN-7							
			1:24	100%	92%								
			0:57										
			1:31										
			1:21										
-49.6	48.1	5.0	1:04	(5.0)	(4.9)	RUN-8	(55.4)	(35.8)				-49.0	
			1:38	100%	98%		82%	53%					
			1:15										
			0:49										
			0:35										
-54.6	53.1	5.0	0:24	(5.0)	(4.0)	RUN-9							
			0:37	100%	80%								
			0:33										
			0:54										
			0:46										
-59.6	58.1	5.0	1:08	(4.7)	(4.1)	RUN-10							
			1:48	94%	82%								
			1:52										
			0:45										
			1:46										
-64.6	63.1	5.0	1:02	(3.5)	(1.9)	RUN-11							
			0:37	70%	38%								
			0:52										
			0:52										
			0:26										
-69.6	68.1	5.0	0:33	(3.2)	(0.6)	RUN-12							
			0:27	64%	12%								
			1:01										
			1:38										
			0:20										
-74.6	73.1	5.0	0:55	(2.4)	(0.9)	RUN-13							
			0:37	48%	18%								
			0:08										
			0:19										
			1:10										
-79.6	78.1	5.0	1:01	(4.0)	(3.3)	RUN-14							
			1:02	100%	83%								
			1:06										
			1:15										
-83.6	82.1	4.0	0:29	(0.8)	(0.4)	RUN-15							
			0:35	80%	40%	RUN-16							
			0:09	(4.1)	(1.0)								
			0:48	82%	20%								
			0:32										
			0:49										
-89.6	88.1	5.0	1:04	(3.2)	(0.4)	RUN-17							
			0:46	64%	8%								
			0:30										

TURKEY POINT COL CORE TURKEY POINT COL GDT 3/14/08

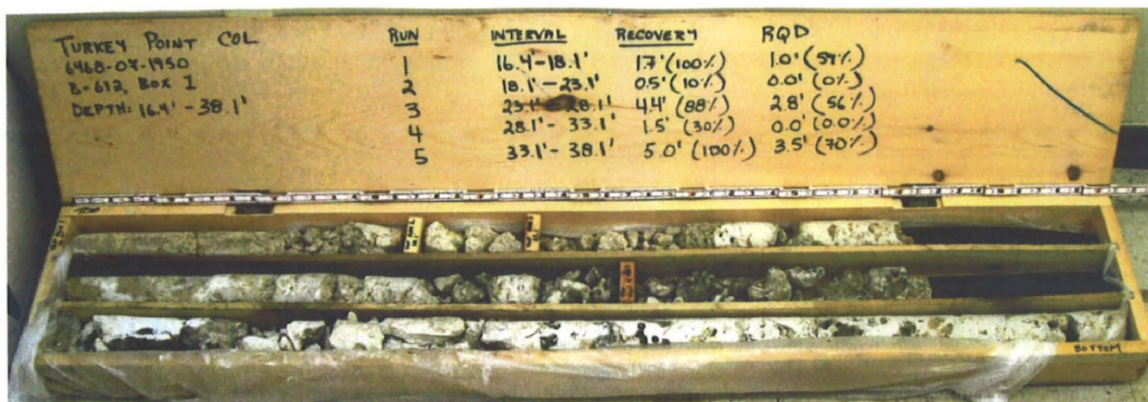


SHEET 2 OF 2

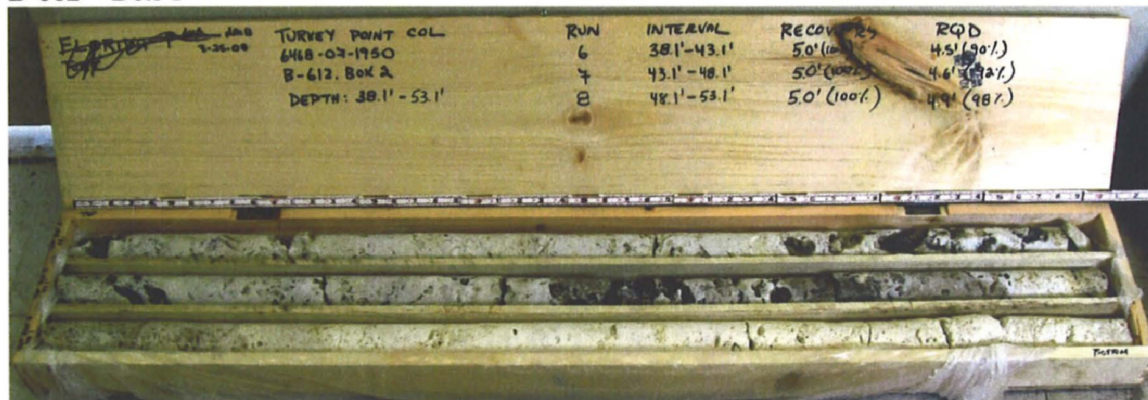
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: L. Bisson
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (ATL)	DRILLER: L. Carter/ J. Landeros	GROUND WATER (ft)
BORING NO.: B-612	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,086 US ft (NAD83/90)	EASTING: 876,869 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 125.1 ft	CASING DEPTH: 4" to 16.0', 3" to 118.6'	HAMMER (ID): 140 lb. Auto (MEC-03)	
DATE STARTED: 3/25/08	COMPLETED: 3/26/08	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										
-94.6	93.1	5.0	0.30 0.26			RUN-18				LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-99.6	98.1	5.0	0.26 1.18 0.42 0.44 0.40	(2.6) 52%	(0.9) 18%	RUN-19				93.1ft: hard, interbedded sand lenses
-104.6	103.1	5.0	0.36 0.50 0.32 0.27 1.03	(5.0) 100%	(4.2) 84%	RUN-20				98.1ft: few shell molds and casts
-109.6	108.1	5.0	0.43 0.53 0.48 1.03 0.45	(5.0) 100%	(5.0) 100%	RUN-21				108.1ft: white (10YR8/1), to light gray (10YR7/2), to greenish gray (10Y5/1), hard to moderately hard
-114.6	113.1	5.0	0.31 0.19 0.35 0.24 0.39	(5.0) 100%	(3.6) 72%	RUN-22				113.1ft: greenish gray (10Y5/1), hard
-119.6	118.1	5.0	0.37 0.22 0.24 0.41 0.18	(1.3) 26%	(0.0) 0%		(0.0) 0%	(NA)		Silty SAND (SM), gray (2.5Y6/1), loose, wet, fine grained sand, strong HCl reaction (Tamiami Formation)
Coring Terminated at Elevation -119.6										

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/14/08



B-612 - Box 1



B-612 - Box 2



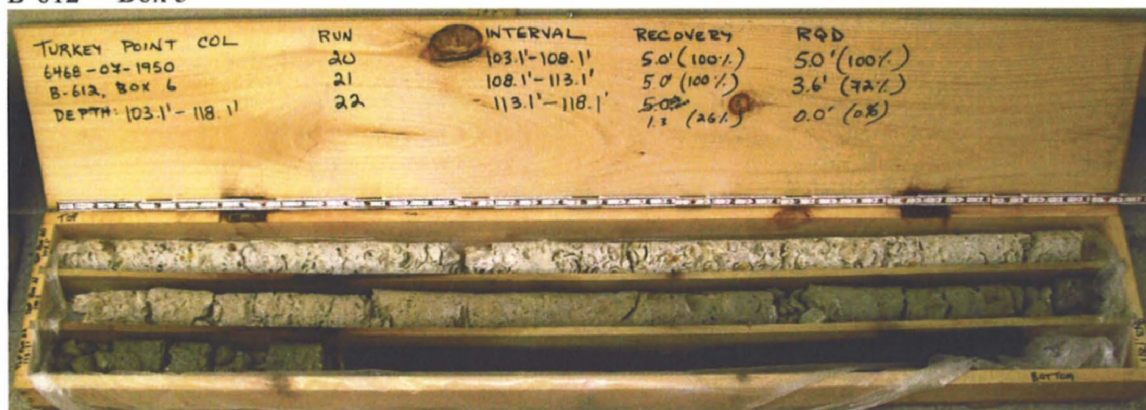
B-612 - Box 3



B-612 - Box 4



B-612 - Box 5



B-612 - Box 6



GEOTECHNICAL BORING LOG

Prepared By SM Date 8-19-08Checked By SC Date 8/19/08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: J. Liles							
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 (Miller)		DRILLER: R. White/ J. Dugger/ C. White		GROUND WATER (ft)							
BORING NO.: B-613		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA							
GROUND ELEV.: -1.4 ft (NAVD88)		NORTHING: 397,162 US ft (NAD83/90)		EASTING: 876,809 US ft (NAD83/90)		24 HR. NA							
TOTAL DEPTH: 150.2 ft		BORING DIAMETER: 3" to 150.2'		CASING DEPTH: 3" to 115.0'		HAMMER (ID):140 lb. Auto (M06)							
DATE STARTED: 3/25/08		COMPLETED: 3/26/08		CORE SIZE: HQ3		BITS USED: 2 7/8" Roller Cone							
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			
-1.4					Ground Surface							-1.4	0.0
-1.4	0.0	WOH	WOH	WOH	0						613-1		MUCK, black (2.5Y2.5/1), very soft, wet, strong HCl reaction, mostly organics
-4.2	2.8										613-2A&B		
-6.5	5.1	2	3	4							613-3		LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, little fine grained sand, strong HCl reaction, oolitic (Miami Formation)
-8.9	7.5	8	10	7							613-4		7.5ft: moderately hard
-11.1	9.7	15	42	11							613-5		9.7ft: very soft
-13.1	11.7	3	5	10							613-6		11.7ft: medium hard
-16.4	15.0	2	11	21							613-7		15.0ft: soft
-21.4	20.0	5	10	13							613-8		20.0ft: very soft
-27.7	26.3	3	3	8							613-9		
-32.9	31.5	2	2	14							613-10		LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, trace clayey sand, strong HCl reaction (Upper Fort Thompson Formation)
-33.3	31.9										RUN-1		31.5ft: hard
-36.3	34.9	50/0.4									RUN-2		31.9ft: Switch sampling method to coring
-41.3	39.9										RUN-3		31.9ft: white (2.5Y8/1), moderately hard, moderately indurated, coralline, few vugs
-46.3	44.9										RUN-4		34.9ft: fossiliferous, little vugs
-51.3	49.9										RUN-5		39.9ft: few vugs
-56.3	54.9										RUN-6		
-61.3	59.9										RUN-7		44.9ft: light gray (2.5Y7/2), moderately hard to hard, moderately indurated to indurated
-66.3	64.9										RUN-8		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, trace vugs, strong HCl reaction, fossiliferous, few gastropod shell molds and casts (Lower Fort Thompson Formation)
-71.3	69.9										RUN-9		59.9ft: medium hard to moderately hard, friable to moderately indurated, sandy
-76.3	74.9												64.9ft: no recovery, very fast/soft drilling
													69.9ft: moderately hard, moderately indurated, very fast/soft drilling

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/18/08



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: J. Liles				
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-550 (Miller)			DRILLER: R. White/ J. Dugger/ C. White			GROUND WATER (ft)				
BORING NO.: B-613			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -1.4 ft (NAVD88)			NORTHING: 397,162 US ft (NAD83/90)			EASTING: 876,809 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 150.2 ft			BORING DIAMETER: 3" to 150.2'			CASING DEPTH: 3" to 115.0'			HAMMER (ID): 140 lb. Auto (M06)				
DATE STARTED: 3/25/08			COMPLETED: 3/26/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Roller Cone				
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			
-76.2					Continued from previous page								
-81.3	79.9										RUN-10		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, trace vugs, strong HCl reaction, fossiliferous, few gastropod shell molds and casts (Lower Fort Thompson Formation) (continued) 74.9ft: medium hard to moderately hard, friable to moderately indurated
-86.3	84.9										RUN-11		
-91.3	89.9										RUN-12		
-96.3	94.9										RUN-13		
-101.3	99.9										RUN-14		
-106.3	104.9										RUN-15		84.9ft: trace fine to medium grained sand, few vugs
-111.3	109.9										RUN-16		89.9ft: moderately hard, moderately indurated
-116.3	114.9										RUN-17		
-118.3	116.9										RUN-18		99.9ft: some vugs, little shell molds and casts
		9	10	1							613-11		POORLY GRADED SAND (SP), light gray (2.5Y7/1), wet, fine grained sand, strong HCl reaction, trace limestone fragments and shells (Tamiami Formation) 116.9ft: Switch sampling method to SPT 116.9ft: medium dense, shell fragments
-127.5	126.1												
		4	7	11							613-12		126.1ft: greenish gray (10Y6/1)
-137.6	136.2												
-140.1	138.7	3	2	2							613-13		136.2ft: no recovery, very loose
		2	3	5							613-14		138.7ft: loose
-150.1	148.7										613-15		

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/18/08



SHEET 3 OF 3

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: J. Liles						
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-550 (Miller)			DRILLER: R. White/ J. Dugger/ C. White			GROUND WATER (ft)						
BORING NO.: B-613			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA						
GROUND ELEV.: -1.4 ft (NAVD88)			NORTHING: 397,162 US ft (NAD83/90)			EASTING: 876,809 US ft (NAD83/90)			24 HR. NA						
TOTAL DEPTH: 150.2 ft			BORING DIAMETER: 3" to 150.2'			CASING DEPTH: 3" to 115.0'			HAMMER (ID): 140 lb. Auto (M06)						
DATE STARTED: 3/25/08			COMPLETED: 3/26/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Roller Cone						
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					
-151.0					Continued from previous page										
															148.7ft: medium dense Boring Terminated at Elevation -151.6 ft

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL.GDT 8/18/08



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: J. Liles
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (Miller)	DRILLER: R. White/ J. Dugger/ C. White	GROUND WATER (ft)
BORING NO.: B-613	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.4 ft (NAVD88)	NORTHING: 397,162 US ft (NAD83/90)	EASTING: 876,809 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 150.2 ft	CASING DEPTH: 3" to 115.0'	HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 3/25/08	COMPLETED: 3/26/08	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) %		
										Begin Coring @ 31.9 ft
-33.3	31.9	3.0	1:01 1:02 1:10	(3.0) 100%	(1.0) 33%	RUN-1	(14.1) 93%	(8.4) 55%		LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, trace clayey sand, strong HCl reaction (Upper Fort Thompson Formation) (continued)
-36.3	34.9	5.0	1:05 0:54 1:08 1:09 0:18	(4.1) 82%	(2.3) 46%	RUN-2				31.9ft: white (2.5Y8/1), moderately hard, moderately indurated, coralline, few vugs 34.9ft: fossiliferous, little vugs
-41.3	39.9	5.0	0:44 0:53 0:57 2:02 1:52	(4.8) 96%	(3.6) 72%	RUN-3				39.9ft: few vugs
-46.3	44.9	5.0	1:08 1:49 2:03 2:10 1:00	(4.9) 98%	(3.5) 70%	RUN-4				44.9ft: light gray (2.5Y7/2), moderately hard to hard, moderately indurated to indurated
-51.3	49.9	5.0	0:58 0:38 0:50 0:47 0:42	(5.0) 100%	(3.6) 72%	RUN-5	(33.8) 51%	(12.9) 20%		LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, trace vugs, strong HCl reaction, fossiliferous, few gastropod shell molds and casts (Lower Fort Thompson Formation)
-56.3	54.9	5.0	0:25 0:10 0:37 0:38 0:39	(3.1) 62%	(1.6) 32%	RUN-6				
-61.3	59.9	5.0	0:48 1:06 0:26 0:19 0:38	(1.8) 36%	(0.7) 14%	RUN-7				59.9ft: medium hard to moderately hard, friable to moderately indurated, sandy
-66.3	64.9	5.0	0:11 0:06 0:05 0:06 0:11	(0.0) 0%	(0.0) 0%	RUN-8				64.9ft: no recovery, very fast/soft drilling
-71.3	69.9	5.0	0:09 0:08 0:17 0:14 0:14	(1.1) 22%	(0.0) 0%	RUN-9				69.9ft: moderately hard, moderately indurated, very fast/soft drilling
-76.3	74.9	5.0	0:06 1:28 0:37 3:01 2:26	(3.2) 64%	(0.0) 0%	RUN-10				74.9ft: medium hard to moderately hard, friable to moderately indurated
-81.3	79.9	5.0	1:07 1:10 1:21 1:11 0:30	(2.9) 58%	(1.0) 20%	RUN-11				
-86.3	84.9	5.0	0:30 1:08 0:53 1:15 0:56	(2.9) 58%	(1.3) 26%	RUN-12				84.9ft: trace fine to medium grained sand, few vugs
-91.3	89.9	5.0	0:35 0:33 0:54 0:48 0:25	(0.2) 4%	(0.0) 0%	RUN-13				89.9ft: moderately hard, moderately indurated
-96.3	94.9	5.0	0:44 0:23 0:28 0:19 0:48	(1.4) 28%	(0.0) 0%	RUN-14				
-101.3	99.9	5.0	0:52 0:40 0:46 0:46 0:45	(4.6) 92%	(2.6) 52%	RUN-15				99.9ft: some vugs, little shell molds and casts
-106.3	104.9	5.0	0:46 0:37	(3.2) (0.0)	(0.0) (0.0)	RUN-16				

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/18/08



SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: J. Liles
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (Miller)	DRILLER: R. White/ J. Dugger/ C. White	GROUND WATER (ft)
BORING NO.: B-613	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.4 ft (NAVD88)	NORTHING: 397,162 US ft (NAD83/90)	EASTING: 876,809 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 150.2 ft	CASING DEPTH: 3" to 115.0'	HAMMER (ID): 140 lb. Auto (M06)	
DATE STARTED: 3/25/08	COMPLETED: 3/26/08	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		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Continued from previous page
-111.3	109.9		0.36 0.35 0.25	64%	0%					LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, trace vugs, strong HCl reaction, fossiliferous, few gastropod shell molds and casts (Lower Fort Thompson Formation) <i>(continued)</i>
		5.0	0.34 0.32 0.26 0.25 0.55	(1.6) 32%	(0.0) 0%	RUN-17				
-116.3	114.9						(0.4) 10%	(NA)		POORLY GRADED SAND (SP), light gray (2.5Y7/1), wet, fine grained sand, strong HCl reaction, trace limestone fragments and shells (Tamiami Formation)
-118.3	116.9	2.0	0.08 0.36	(0.4) 20%	(0.4) 20%	RUN-18				116.9ft: Switch sampling method to SPT Coring Terminated at Elevation -118.3

TURKEY POINT COL CORE TURKEY POINT COL GDT 8/18/08