



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade		GEOLOGIST: B. Taylor		
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-550X (ATL)					DRILLER: R. Landeros/ N. Rodriguez			GROUND WATER (ft)	
BORING NO.: B-720(DH)					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core			0 HR. NA	
GROUND ELEV.: -0.9 ft (NAVD88)					NORTHING: 397,397 US ft (NAD83/90)					EASTING: 875,791 US ft (NAD83/90)			24 HR. NA	
TOTAL DEPTH: 204.9 ft			BORING DIAMETER: 4" to 204.9'					CASING DEPTH: 4" to 118.4'				HAMMER (ID): 140 lb. Auto (MEC-05)		
DATE STARTED: 4/5/08			COMPLETED: 4/8/08			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.			
-75.7					Continued from previous page									
-79.3	78.4										RUN-12		vugs, strong HCl reaction, trace sand 73.4ft: fossiliferous LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, few vugs, strong HCl reaction, trace sand (continued) 78.4ft: moderately hard to hard, moderately indurated to indurated, trace vugs, few shell molds and casts 83.4ft: moderately hard, moderately indurated, few vugs	
-84.3	83.4										RUN-13			
-89.3	88.4										RUN-14			
-94.3	93.4										RUN-15	-93.3	POORLY GRADED SAND (SP), light gray (10YR7/1), moist, fine to medium grained sand, soft, some shell fragments, strong HCl reaction 92.4	
-99.3	98.4										RUN-16	-100.3	LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, little vugs, fossiliferous, strong HCl reaction, few to some shell molds and casts 99.4	
-104.3	103.4										RUN-17			
-109.3	108.4										RUN-18		108.4ft: soft to moderately hard, friable to moderately indurated	
-114.3	113.4										RUN-19	-113.9	POORLY GRADED SAND with silt (SP-SM), light gray (10YR7/1), medium dense, wet, fine to coarse grained sand, some shell fragments, strong HCl reaction, with soft, friable to moderately indurated cemented sand layers (Tamiami Formation) 113.0	
-119.3	118.4	6	8	5							720(DH)-10		118.4ft: Switch sampling method to SPT	
-129.3	128.4	4	4	4							720(DH)-11		128.4ft: greenish gray (5GY5/1), loose, weak HCl reaction	
-139.7	138.8	8	9	8							720(DH)-12	-139.7	Silty SAND (SM), greenish gray (5GY5/1), medium dense, wet, weak HCl reaction, fine to coarse grained sand, fine gravel 138.8	
-149.3	148.4	5	7	10							720(DH)-13			

TURKEY POINT COL BORE 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: B. Taylor	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550X (ATL)		DRILLER: R. Landeros/ N. Rodriguez		GROUND WATER (ft)	
BORING NO.: B-720(DH)		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -0.9 ft (NAVD88)		NORTHING: 397,397 US ft (NAD83/90)		EASTING: 875,791 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 204.9 ft		BORING DIAMETER: 4" to 204.9'		CASING DEPTH: 4" to 118.4'		HAMMER (ID): 140 lb. Auto (MEC-05)	
DATE STARTED: 4/5/08		COMPLETED: 4/8/08		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				
-150.5					Continued from previous page									
-159.3	158.4	4	6	13										148.4ft: fine grained sand Silty SAND (SM), greenish gray (5GY5/1), medium dense, wet, weak HCl reaction, fine to coarse grained sand, fine gravel (continued)
-169.3	168.4	4	6	13										Sandy SILT (ML), greenish gray (5GY5/1), very stiff, wet, weak HCl reaction, fine to coarse grained sand, fine gravel
-179.3	178.4	3	4	7										
-189.3	188.4	3	4	13										
-199.3	198.4	3	4	7										
-204.3	203.4	4	5	8										
														Boring Terminated at Elevation -205.8 ft

TURKEY POINT COL BORE, TURKEY POINT GP, TURKEY POINT COL GDF 8/19/08



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: B. Taylor	
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550X (ATL)				DRILLER: R. Landeros/ N. Rodriguez		GROUND WATER (ft)	
BORING NO.: B-720(DH)				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core		0 HR. NA	
GROUND ELEV.: -0.9 ft (NAVD88)				NORTHING: 397,397 US ft (NAD83/90)				EASTING: 875,791 US ft (NAD83/90)		24 HR. NA	
TOTAL DEPTH: 204.9 ft				CASING DEPTH: 4" to 118.4'						HAMMER (ID): 140 lb. Auto (MEC-05)	
DATE STARTED: 4/5/08		COMPLETED: 4/8/08		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 @ 29.8 ft	
-30.7	29.8	3.6	0.39 0.41 0.42	(3.4) 94%	(3.0) 83%	RUN-1	(18.0) 97%	(16.7) 90%		LIMESTONE, boundstone, white (10YR8/1), hard, moist, strong HCl reaction, oolitic (Upper Fort Thompson Formation) (continued)	
-34.3	33.4	5.0	0.28/0.6 1.14 0.50 0.38 0.29 0.30	(5.0) 100%	(4.4) 88%	RUN-2				29.8ft: moderately hard, moderately indurated, fossiliferous, vugs filled with cemented sand and shell fragments 33.4ft: hard, indurated, few vugs, coralline	
-39.3	38.4	5.0	1.03 1.08 0.52 1.05 1.07	(4.6) 92%	(4.5) 90%	RUN-3				38.4ft: loss of circulation	
-44.3	43.4	5.0	0.56 1.05 1.05 1.26 1.36	(5.0) 100%	(4.8) 96%	RUN-4				43.4ft: white (10YR8/1) to 46.8ft, then gray (10YR6/1) to 48.4ft	
-49.3	48.4	5.0	1.08 1.16 1.02 1.14 0.55	(5.0) 100%	(5.0) 100%	RUN-5	(9.4) 75%	(7.7) 61%		LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, few to little shell molds and casts (Lower Fort Thompson Formation)	
-54.3	53.4	5.0	0.40 1.06 0.48 0.19 0.28	(2.6) 52%	(0.4) 8%	RUN-6				53.4ft: moderately hard, moderately indurated, little vugs, trace sand	
-59.3	58.4	5.0	0.41 0.26 0.49 0.38 0.21	(1.8) 36%	(1.8) 36%	RUN-7				58.4ft: few vugs	
-64.3	63.4	5.0	0.25 1.27 0.41 1.04 3.29	(1.7) 34%	(0.0) 0%	RUN-8	(3.7) 39%	(0.0) 0%		POORLY GRADED SAND (SP), light gray (10YR7/1), soft, moist, fine grained sand, and interbedded LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, trace vugs, few to little sand	
-69.3	68.4	1.8	0.26 3.35	(1.8) 100%	(0.0) 0%	RUN-9				68.4ft: fine to medium grained sand, some shell fragments, few to little friable LIMESTONE fragments, strong HCl reaction	
-71.1	70.2	3.2	2.10 1.56 2.32	(3.2) 100%	(2.9) 91%	RUN-10 RUN-10	(15.2) 69%	(11.1) 50%		LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, few vugs, strong HCl reaction, trace sand	
-74.3	73.4	5.0	0.23 0.25 0.37 0.29 0.23	(2.6) 52%	(1.7) 34%	RUN-11				73.4ft: fossiliferous	
-79.3	78.4	5.0	0.36 0.19 0.15 0.29 0.41	(3.0) 60%	(1.7) 34%	RUN-12				78.4ft: moderately hard to hard, moderately indurated to indurated, trace vugs, few shell molds and casts	
-84.3	83.4	5.0	0.30 0.19 0.27 0.54 0.39	(2.7) 54%	(2.1) 42%	RUN-13				83.4ft: moderately hard, moderately indurated, few vugs	
-89.3	88.4	5.0	0.54 0.15 0.17 0.21 0.18	(3.9) 78%	(2.7) 54%	RUN-14					
-94.3	93.4	5.0	0.41 0.35 0.23 0.19 0.19	(2.7) 54%	(0.0) 0%	RUN-15	(2.7) 39%	(0.0) 0%		POORLY GRADED SAND (SP), light gray (10YR7/1), moist, fine to medium grained sand, soft, some shell fragments, strong HCl reaction	
-99.3	98.4	5.0	0.48 1.05 0.53 1.08 0.47	(3.6) 72%	(2.1) 42%	RUN-16	(7.6) 56%	(5.6) 41%		LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, little vugs, fossiliferous, strong HCl reaction, few to some shell molds and casts	
-104.3	103.4	5.0	0.34	(3.8)	(3.5)	RUN-17					

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