



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-712		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR. NA								
GROUND ELEV.: -1.1 ft (NAVD88)		NORTHING: 397,082 US ft (NAD83/90)		EASTING: 876,022 US ft (NAD83/90)		24 HR. NA								
TOTAL DEPTH: 128.3 ft		BORING DIAMETER: 4" to 28.1', 3" to 128.3'		CASING DEPTH: 4" to 28.1', 3" to 122.0'		HAMMER (ID): 140 lb. Auto (MEC-02)								
DATE STARTED: 3/19/08		COMPLETED: 3/21/08		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
-75.9					Continued from previous page									
-77.9	76.8													LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-82.9	81.8													
-87.9	86.8													
-92.9	91.8													
-97.9	96.8													96.8ft: medium hard to hard, trace fine grained sand, few to little shell molds and casts
-102.9	101.8													101.8ft: hard to medium hard
-107.9	106.8													106.8ft: hard
-112.9	111.8													
-117.9	116.8													
-127.9	126.8	8	6	9										126.8ft: Switch sampling method to SPT Silty SAND (SM), greenish gray (5/10Y), medium dense, wet, fine grained sand, weak HCl reaction
														Boring Terminated at Elevation -129.4 ft

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7/10/08



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TOTAL DEPTH: 128.3 ft		CASING DEPTH: 4" to 28.1', 3" to 122.0'				HAMMER (ID): 140 lb. Auto (MEC-02)	
DATE STARTED: 3/19/08		COMPLETED: 3/21/08		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) %		
										Begin Coring @ 30.5 ft
-31.6	30.5	0.5	1.40/0.5	(0.3)	(0.0)	RUN-1	(12.8)	(5.9)		LIMESTONE, boundstone, white (10YR8/1), very soft, moist, strong HCl reaction, trace shell fragments (Upper Fort Thompson Formation)
-32.1	31.0	5.0	0.57	60%	0%	RUN-2	63%	29%		26.5ft: loss of circulation
-32.9	31.8		0.50	(2.0)	(0.0)					29.0ft: hard
			0.52	40%	0%					30.5ft: Switch sampling method to coring (continued)
			0.58							30.5ft: white, (5Y8/1), hard, indurated, strong HCl reaction, little vugs
			0.36							31.8ft: fossiliferous, coralline, some vugs
		5.0	0.30	(3.2)	(1.5)	RUN-3				36.8ft: dark greenish gray (4/10Y), few vugs
			0.21	64%	30%					
			0.20							
-42.9	41.8	5.0	0.17	(4.2)	(3.1)	RUN-4				41.8ft: pale yellow (2.5Y8/4)
			1.09	84%	62%					
			0.26							
			0.21							
-47.9	46.8	5.0	0.29	(4.1)	(2.3)	RUN-5				46.8ft: white (2.5Y8/1), to 48.4ft then gray (N5/) to 50.8ft
			1.08	82%	46%					
			0.47							
			0.37							
			0.56							
-52.9	51.8	5.0	0.45	(5.0)	(5.0)	RUN-6	(40.8)	(26.7)		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
			0.49	100%	100%		64%	42%		
			0.48							
			0.46							
			0.37							
-57.9	56.8	5.0	0.27	(1.6)	(0.0)	RUN-7				56.8ft: white (5Y8/1)
			0.32	32%	0%					
			0.10							
			0.19							
			0.12							
-62.9	61.8	5.0	0.48	(5.0)	(3.9)	RUN-8				66.8ft: white (8/N)
			0.37	100%	78%					
			0.45							
			0.43							
			0.42							
-67.9	66.8	5.0	0.40	(3.8)	(3.3)	RUN-9				71.8ft: white (5Y8/1)
			0.30	76%	66%					
			0.43							
			0.41							
			0.39							
-72.9	71.8	5.0	0.19	(2.0)	(0.0)	RUN-10				
			0.30	40%	0%					
			0.28							
			0.23							
			0.31							
-77.9	76.8	5.0	0.14	(3.3)	(1.9)	RUN-11				
			0.30	66%	38%					
			0.21							
			0.36							
			0.35							
-82.9	81.8	5.0	0.41	(1.1)	(0.5)	RUN-12				
			0.25	22%	10%					
			0.22							
			0.17							
			0.23							
-87.9	86.8	5.0	0.16	(3.8)	(2.3)	RUN-13				
			0.40	76%	46%					
			1.28							
			0.48							
			0.26							
-92.9	91.8	5.0	0.39	(2.1)	(1.5)	RUN-14				
			0.27	42%	30%					
			0.27							
			0.17							
			0.15							
-97.9	96.8	5.0	0.11	(3.1)	(2.2)	RUN-15				96.8ft: medium hard to hard, trace fine grained sand, few to little shell molds and casts
			0.14	62%	44%					
			0.15							
			0.20							
			0.43							
-102.9	101.8	5.0	0.31	(3.5)	(2.0)	RUN-16				101.8ft: hard to medium hard
			0.15	70%	40%					
			0.25							
			0.28							

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DATE STARTED: 3/19/08		COMPLETED: 3/21/08		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
-107.9	106.8	5.0	0:26 0:24	(4.1) 82%	(3.1) 62%	RUN-17				LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued) 106.8ft: hard
-112.9	111.8	5.0	0:26 0:17 0:24 0:30 0:29	(1.4) 28%	(0.0) 0%	RUN-18				
-117.9	116.8	5.0	0:38 0:21 0:35 0:26 0:21	(0.8) 16%	(0.0) 0%	RUN-19	(0.8) 12%	(NA)		-116.1 Silty SAND (SM), and interbedded LIMESTONE, boundstone, white (5Y8/1), hard indurated, fossiliferous, trace fine sand, strong HCl reaction (Tamiami Formation) 115.0
-122.9	121.8		0:21 0:18 0:22 0:11 0:30							-122.9 Coring Terminated at Elevation -122.9 121.8

TURKEY POINT COL CORE TURKEY POINT GPI TURKEY POINT COL GDI 7/10/08