



SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade			GEOLOGIST: H. Lyatuu				
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-550 Marsh Buggy					DRILLER: D. White/ R. Hall					GROUND WATER (ft)		
BORING NO.: B-807					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -0.7 ft (NAVD88)					NORTHING: 395,278 US ft (NAD83/90)					EASTING: 875,988 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 128.5 ft			BORING DIAMETER: 4" to 20.0', 3" to 128.5'					CASING DEPTH: 4" to 20.0', 3" to 127.0'					HAMMER (ID): 140 lb. Auto (893)				
DATE STARTED: 3/25/08			COMPLETED: 4/2/08			CORE SIZE: HQ3			BITS USED: 2 15/16" 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		
-75.5					Continued from previous page												
-77.7	77.0													LIMESTONE, boundstone, white (10YR8/1), moderately hard to hard, moderately indurated to indurated, few to little vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued) 77.0 to 108.0ft: possible interbedded sand layers			
-82.7	82.0										RUN-16						
-87.7	87.0													87.0ft: Alternate sampling method between coring and SPT 87.0ft: white (7.5YR8/1), hard 88.5ft: soft to moderately hard, friable to moderately indurated 92.0ft: white (10YR8/1), moderately hard, moderately indurated			
-89.2	88.5	10	14	50/0.5							807-9						
-92.7	92.0										RUN-18						
-97.7	97.0													97.0ft: very soft			
-99.2	98.5	15	1	15							RUN-19						
-102.7	102.0													102.2 to 103.5ft: silty sand, light greenish gray (10GY7/1), loose, wet, fine grained sand, strong HCl reaction			
-104.2	103.5	8	5	2							807-10						
-107.7	107.0										RUN-20			107.0ft: LIMESTONE, boundstone, white (10YR8/1), very soft, wet, fossiliferous, trace fine grained sand, strong HCl reaction 108.5ft: hard, indurated, few vugs			
-109.2	108.5	1	1	8							807-11A&B						
-112.7	112.0										RUN-21			112.0ft: moderately hard, moderately indurated			
-117.7	117.0										807-12						
-122.7	122.0										RUN-22			117.0ft: little vugs			
-127.7	127.0										RUN-23						
														122.0ft: trace vugs			
											RUN-24						
														POORLY SORTED SAND (SP), light gray (N7/1), medium dense, wet, fine grained sand, weak HCl reaction, with interbedded limestone (Tamiami Formation)			
											RUN-25						
														Boring Terminated at Elevation -129.2 ft			
											807-13A&B						
												</					

TURKEY POINT COL BORE 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: H. Lyatuu			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 Marsh Buggy				DRILLER: D. White/ R. Hall				GROUND WATER (ft)	
BORING NO.: B-807				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -0.7 ft (NAVD88)				NORTHING: 395,278 US ft (NAD83/90)				EASTING: 875,988 US ft (NAD83/90)		24 HR. NA			
TOTAL DEPTH: 128.5 ft				CASING DEPTH: 4" to 20.0', 3" to 127.0'						HAMMER (ID): 140 lb. Auto (893)			
DATE STARTED: 3/25/08		COMPLETED: 4/2/08		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) %					
										Begin Coring @ 20.0 ft			
-20.7	20.0	2.0	2.01	(0.6)	(0.0)	RUN-1	(1.9)	(0.6)		LIMESTONE, boundstone, white (10YR8/1), very soft, wet, fossiliferous, strong HCl reaction (Miami Formation) (continued) 20.0ft: moderately hard, friable to moderately indurated, few vugs, trace fine grained sand			
-22.7	22.0	3.5	1.13	30%	0%	RUN-2	27%	9%					
			0.20	(0.3)	(0.0)					25.5ft: cemented sand zone, greenish gray (5GY6/1), moderately hard, moderately indurated, trace shells, strong HCl reaction			
			0.15	9%	0%								
-26.2	25.5		0.17							LIMESTONE, boundstone, white (10YR8/1), moderately hard to medium hard, indurated to moderately indurated, few sand-filled vugs, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)			
-27.7	27.0	1.5	3.59/0.5	(1.0)	(0.6)	RUN-3							
		3.5	1.57	67%	40%	RUN-4	(19.7)	(17.7)		30.5ft: hard, indurated, coralline			
			0.57/0.5	(3.5)	(3.5)		99%	89%					
-31.2	30.5		1.32	100%	100%					32.0ft: recrystallized calcite			
			1.10										
-32.7	32.0	1.5	1.15			RUN-5				37.0ft: little vugs			
		5.0	0.52/0.5	(1.5)	(1.5)	RUN-6							
			2.27	100%	100%					42.0ft: light gray (10YR7/1), trace shell molds			
			1:17/0.5	(4.7)	(4.3)								
			1:59	94%	86%					47.0ft: trace shell molds and casts			
-37.7	37.0	5.0	1:22										
			1:16							52.0ft: hard, indurated, few shell molds			
			1:16										
			1:05	(5.0)	(3.9)	RUN-7				57.0ft: white (10YR8/1), to light gray (10YR7/1), moderately hard to hard, moderately indurated to indurated, trace fine grained sand			
-42.7	42.0	5.0	2:18	100%	78%								
			1:18							62.0ft: moderately hard, moderately indurated, possible interbedded sand layers			
			2:58										
			1:48							77.0 to 108.0ft: possible interbedded sand layers			
-47.7	47.0	5.0	1:28	(5.0)	(4.5)	RUN-8							
			1:08	100%	90%					87.0ft: Alternate sampling method between coring and SPT			
			1:13										
			1:20							88.5ft: soft to moderately hard, friable to moderately indurated			
			1:37										
			0:56	(3.4)	(1.9)	RUN-9	(31.6)	(11.6)		92.0ft: white (10YR8/1), moderately hard, moderately indurated			
-52.7	52.0	5.0	0.26	68%	38%		41%	15%					
			1:33							97.0ft: white (7.5YR8/1), hard			
			1:40										
			1:40							108.0ft: possible interbedded sand layers			
			0:26										
-56.4	55.7	3.7	1:42	(1.7)	(0.0)	RUN-10				128.5ft: possible interbedded sand layers			
			1:21	46%	0%								
			2:47							140.0ft: possible interbedded sand layers			
-57.7	57.0	1.3	1:59/0.7	(1.2)	(1.2)	RUN-11							
		5.0	0.33	92%	92%	RUN-12				150.0ft: possible interbedded sand layers			
			0.24/0.3	(4.7)	(4.0)								
			0.44	94%	80%					160.0ft: possible interbedded sand layers			
-62.7	62.0	5.0	0.33										
			1:00							170.0ft: possible interbedded sand layers			
			1:18										
			1:11	(1.5)	(0.0)	RUN-13				180.0ft: possible interbedded sand layers			
-67.7	67.0	5.0	0.25	30%	0%								
			0.25							190.0ft: possible interbedded sand layers			
			0.19										
			0.25							200.0ft: possible interbedded sand layers			
			0.29										
-72.7	72.0	5.0	1:30	(2.6)	(1.3)	RUN-14				210.0ft: possible interbedded sand layers			
			1:04	52%	26%								
			1:03							220.0ft: possible interbedded sand layers			
			0:26										
-77.7	77.0	5.0	0:12	(3.6)	(1.0)	RUN-15				230.0ft: possible interbedded sand layers			
			1:07	72%	20%								
			1:35							240.0ft: possible interbedded sand layers			
			2:05										
-82.7	82.0	5.0	2:32	(0.0)	(0.0)	RUN-16				250.0ft: possible interbedded sand layers			
			0:41	0%	0%								
			1:21							260.0ft: possible interbedded sand layers			
			0:30										
-87.7	87.0	5.0	0:10	(0.0)	(0.0)	RUN-17				270.0ft: possible interbedded sand layers			
			0:45										
			0:35							280.0ft: possible interbedded sand layers			
			0:50	(0.0)	(0.0)								
-89.2	88.5	3.5	0:36	0%	0%					290.0ft: possible interbedded sand layers			
			1:09										
			2:35							300.0ft: possible interbedded sand layers			
			0:40										
-92.7	92.0	5.0	N=64/1.0	(0.2)	(0.0)	RUN-19				310.0ft: possible interbedded sand layers			
			1:03	4%	0%								
			0:23							320.0ft: possible interbedded sand layers			

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



SHEET 2 OF 2

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GROUND ELEV.: -0.7 ft (NAVD88)	NORTHING: 395,278 US ft (NAD83/90)	EASTING: 875,988 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 128.5 ft	CASING DEPTH: 4" to 20.0', 3" to 127.0'	HAMMER (ID): 140 lb. Auto (893)	
DATE STARTED: 3/25/08	COMPLETED: 4/2/08	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) %		
			0.11 0.42 0.35							Continued from previous page
-97.7	97.0		0.35 N=16			807-10				LIMESTONE, boundstone, white (10YR8/1), moderately hard to hard, moderately indurated to indurated, few to little vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-99.2	98.5	3.5	0.44 0.35 0.40	(0.0) 0%	(0.0) 0%	RUN-20				97.0ft: very soft
-102.7	102.0		0.20/0.5			807-11A&B				102.2 to 103.5ft: silty sand, light greenish gray (10GY7/1), loose, wet, fine grained sand, strong HCl reaction
-104.2	103.5	3.5	N=7 0.10 0.08 0.15	(0.0) 0%	(0.0) 0%	RUN-21				
-107.7	107.0		0.06/0.5			807-12				107.0ft: LIMESTONE, boundstone, white (10YR8/1), very soft, wet, fossiliferous, trace fine grained sand, strong HCl reaction
-109.2	108.5	3.5	N=9 1.16 3.03 2.24	(2.9) 83%	(1.4) 40%	RUN-22				108.5ft: hard, indurated, few vugs
-112.7	112.0	5.0	1.29/0.5	(4.6) 92%	(0.8) 16%	RUN-23				112.0ft: moderately hard, moderately indurated
-117.7	117.0	5.0	2.00 1.30 1.30 1.03 2.20	(2.7) 54%	(0.0) 0%	RUN-24				117.0ft: little vugs
-122.7	122.0	5.0	1.37 2.01 1.14 1.54 1.42	(1.5) 30%	(0.0) 0%	RUN-25				122.0ft: trace vugs
-127.7	127.0						(0.0) 0%	(NA)		-124.7 POORLY SORTED SAND (SP), light gray (N7/1), medium dense, wet, fine grained sand, weak HCl reaction, with interbedded limestone (Tamiami Formation) -127.7 Coring Terminated at Elevation -127.7

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