



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-723					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.0 ft (NAVD88)					NORTHING: 397,421 US ft (NAD83/90)					EASTING: 875,675 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 100.6 ft			BORING DIAMETER: 4" to 25.1', 3" to 100.6'					CASING DEPTH: 4" to 25.1'					HAMMER (ID): 140 lb. Auto (M06)				
DATE STARTED: 4/22/08			COMPLETED: 4/23/08			CORE SIZE: HQ3			BITS USED: 2 7/8" Roller Cone								
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							
-1.0					Ground Surface												
-1.0	0.0	WOH	WOH	WOH	●0						723-1			-1.0	0.0	MUCK, very dark grayish brown (2.5Y3/2), very soft to soft, wet, trace fine grained sand, strong HCl reaction	
-3.7	2.7	WOH	WOH	4	●4						723-2A&B			-5.0	4.0		
-6.1	5.1	6	6	9							723-3					LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, few fine grained sand, strong HCl reaction, oolitic (Miami Formation)	
-8.6	7.6	2	18	6							723-4					5.1ft: some fine grained sand	
-11.0	10.0	4	3	6	●9						723-5					7.6ft: soft	
-13.2	12.2	9	16	13							723-6					10.0ft: very soft, little fine grained sand	
-16.1	15.1	20	26	19							723-7					12.2ft: soft, few sand	
											723-8					15.1ft: medium hard, trace fine to medium grained sand	
-22.9	21.9	6	9	23							723-9						
-27.3	26.3	4	18	50/0.3							RUN-1			-26.0	25.0	LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation)	
-28.6	27.6										RUN-2					27.6ft: Switch sampling method to coring	
-31.6	30.6										RUN-3					27.6ft: moderately hard to hard, moderately indurated to indurated, little vugs, recrystallized calcite	
-36.6	35.6										RUN-4					35.6ft: hard, indurated, coralline	
-41.6	40.6										RUN-5						
-46.6	45.6										RUN-6			-49.5	48.5	LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)	
-51.6	50.6										RUN-7					55.6ft: medium hard to moderately hard, friable to moderately indurated, few sand	
-56.6	55.6										RUN-8					60.6ft: medium hard to hard, friable to indurated, few to little sand	
-61.6	60.6										RUN-9						
-66.6	65.6										RUN-10					70.6ft: trace vugs, trace to few sand	
-71.6	70.6																

TURKEY POINT COL BORE 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: J. Liles							
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BORING NO.: B-723			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA							
GROUND ELEV.: -1.0 ft (NAVD88)			NORTHING: 397,421 US ft (NAD83/90)			EASTING: 875,675 US ft (NAD83/90)			24 HR. NA							
TOTAL DEPTH: 100.6 ft			BORING DIAMETER: 4" to 25.1', 3" to 100.6'			CASING DEPTH: 4" to 25.1'			HAMMER (ID): 140 lb. Auto (M06)							
DATE STARTED: 4/22/08			COMPLETED: 4/23/08			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						
-75.8					Continued from previous page											
-76.6	75.6										RUN-11			LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)		
-81.6	80.6										RUN-12			75.6ft: moderately indurated to indurated, trace shell molds and casts		
-86.6	85.6										RUN-13			80.6ft: medium hard to hard, friable to indurated, few vugs, some fine grained sand, few shell molds and casts		
-91.6	90.6										RUN-14			85.6ft: little fine grained sand, trace vugs		
-96.6	95.6										RUN-15			90.6ft: hard, indurated		
														95.6ft: moderately hard to hard, moderately indurated to indurated, possible interbedded sand layers: based on drilling rates and recovery		
														-101.6	Boring Terminated at Elevation -101.6 ft	
															100.6	

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



SHEET 1 OF 1

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BORING NO.: B-723				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.0 ft (NAVD88)				NORTHING: 397,421 US ft (NAD83/90)				EASTING: 875,675 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 100.6 ft				CASING DEPTH: 4" to 25.1'						HAMMER (ID): 140 lb. Auto (M06)			
DATE STARTED: 4/22/08		COMPLETED: 4/23/08		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 @ 27.6 ft	
-28.6	27.6	3.0	1:28 0:48 0:58	(3.0) 100%	(2.4) 80%	RUN-1	(15.8) 76%	(10.7) 51%				LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation) (continued)	
-31.6	30.6	5.0	0:43 1:31 0:57 1:15 0:49	(4.0) 80%	(2.0) 40%	RUN-2						27.6ft: moderately hard to hard, moderately indurated to indurated, little vugs, recrystallized calcite	
-36.6	35.6	5.0	0:19 0:10 0:12 0:20 0:54	(1.5) 30%	(0.9) 18%	RUN-3						35.6ft: hard, indurated, coralline	
-41.6	40.6	5.0	1:10 1:01 0:51 0:52 0:55	(4.4) 88%	(2.9) 58%	RUN-4							
-46.6	45.6	5.0	1:28 1:47 1:59 1:56 1:23	(4.9) 98%	(4.5) 90%	RUN-5						45.6ft: gray (2.5Y6/1)	
-51.6	50.6	5.0	1:52 1:44 1:52 1:50 1:15	(4.8) 96%	(4.0) 80%	RUN-6	(36.1) 69%	(14.4) 28%				LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)	
-56.6	55.6	5.0	0:34 1:44 1:10 1:05 0:50	(3.7) 74%	(0.0) 0%	RUN-7						55.6ft: medium hard to moderately hard, friable to moderately indurated, few sand	
-61.6	60.6	5.0	0:43 2:21 1:01 0:50 1:17	(3.5) 70%	(1.6) 32%	RUN-8						60.6ft: medium hard to hard, friable to indurated, few to little sand	
-66.6	65.6	5.0	0:11 0:19 0:20 1:24 1:12	(2.8) 56%	(0.0) 0%	RUN-9							
-71.6	70.6	5.0	1:26 1:11 0:31 2:08 1:24	(3.9) 78%	(1.9) 38%	RUN-10						70.6ft: trace vugs, trace to few sand	
-76.6	75.6	5.0	1:51 1:56 0:59 1:01 1:29	(4.7) 94%	(2.2) 44%	RUN-11						75.6ft: moderately indurated to indurated, trace shell molds and casts	
-81.6	80.6	5.0	1:07 1:18 1:35 0:46 0:47	(4.5) 90%	(1.6) 32%	RUN-12						80.6ft: medium hard to hard, friable to indurated, few vugs, some fine grained sand, few shell molds and casts	
-86.6	85.6	5.0	1:00 2:00 1:49 1:05 0:31	(4.3) 86%	(1.1) 22%	RUN-13						85.6ft: little fine grained sand, trace vugs	
-91.6	90.6	5.0	1:09 0:41 0:52 1:34 1:14	(1.3) 26%	(0.0) 0%	RUN-14						90.6ft: hard, indurated	
-96.6	95.6	5.0	2:02 0:55 0:44 0:28 0:46	(0.6) 12%	(0.0) 0%	RUN-15						95.6ft: moderately hard to hard, moderately indurated to indurated, possible interbedded sand layers; based on drilling rates and recovery	
-101.6	100.6											Coring Terminated at Elevation -101.6	

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