



SHEET 1 OF 1

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-727				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.3 ft (NAVD88)				NORTHING: 397,118 US ft (NAD83/90)				EASTING: 875,666 US ft (NAD83/90)		24 HR. NA			
TOTAL DEPTH: 100.9 ft				CASING DEPTH: 4" to 35.0'						HAMMER (ID): 140 lb. Auto (M06)			
DATE STARTED: 4/3/08		COMPLETED: 4/4/08		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 @ 36.9 ft	
-38.2	36.9	1.0	0:55	(0.0)	(0.0)		RUN-1	(7.6)	(5.5)			LIMESTONE, boundstone, white (2.5Y8/1), hard, strong HCl reaction (Upper Fort Thompson Formation) (continued)	
-39.2	37.9	5.0	0:54 0:48 0:56 0:49 0:55	0% (3.7) 74%	0% (3.0) 60%		RUN-2	63%	46%			37.9ft: moderately hard, moderately indurated, little vugs, recrystallized calcite, coralline	
-44.2	42.9	5.0	0:47 0:17 0:49 0:53 0:57	(2.9) 58%	(1.7) 34%		RUN-3					42.9ft: white (2.5Y8/1) grading to gray (2.5Y6/1), few vugs	
-49.2	47.9	5.0	1:04 0:59 0:56 0:58 1:01	(5.0) 100%	(4.8) 96%		RUN-4	(33.1) 64%	(18.3) 35%			-50.2	47.9ft: gray (2.5Y6/1) to 48.9ft 48.9
-54.2	52.9	5.0	1:18 0:56 0:57 0:47 1:02	(5.0) 100%	(4.6) 92%		RUN-5					LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction, fossiliferous, trace shell molds and casts (Lower Fort Thompson Formation)	
-59.2	57.9	5.0	0:48 0:43 0:54 0:43 0:31	(4.0) 80%	(2.3) 46%		RUN-6					52.9ft: moderately hard to hard, moderately indurated to indurated, few vugs	
-64.2	62.9	5.0	0:24 0:29 0:24 0:20 0:30	(1.8) 36%	(0.0) 0%		RUN-7					57.9ft: moderately hard, moderately indurated, trace sand	
-69.2	67.9	5.0	1:01 0:32 0:36 0:54 0:47	(1.8) 36%	(0.6) 12%		RUN-8					62.9ft: medium hard to moderately hard, friable to moderately indurated, few to little sand	
-74.2	72.9	5.0	0:35 0:12 0:07 0:05 0:23	(0.9) 18%	(0.0) 0%		RUN-9					67.9ft: moderately hard, moderately indurated	
-79.2	77.9	5.0	0:41 0:45 0:40 0:54 0:56	(2.7) 54%	(0.0) 0%		RUN-10					72.9ft: soft to moderately hard, friable to moderately indurated, possible interbedded sand layers based on recovery and drill rates	
-84.2	82.9	5.0	1:51 0:37 0:10 0:23 0:45	(3.3) 66%	(2.5) 50%		RUN-11					77.9ft: medium hard to moderately hard, friable to moderately indurated, few to little fine grained sand	
-89.2	87.9	5.0	1:04 0:52 0:54 0:37 0:37	(3.7) 74%	(1.9) 38%		RUN-12					87.9ft: moderately hard to hard, moderately indurated to indurated, trace vugs, trace to few sand	
-94.2	92.9	5.0	0:39 0:22 0:31 0:38 0:23	(3.8) 76%	(2.4) 48%		RUN-13					92.9ft: moderately hard, moderately indurated	
-99.2	97.9	3.0	0:07 0:11 0:40	(2.1) 70%	(0.0) 0%		RUN-14					97.9ft: medium hard to moderately hard, friable to moderately indurated	
-102.2	100.9											-102.2	100.9
Coring Terminated at Elevation -102.2													

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 5.30.08



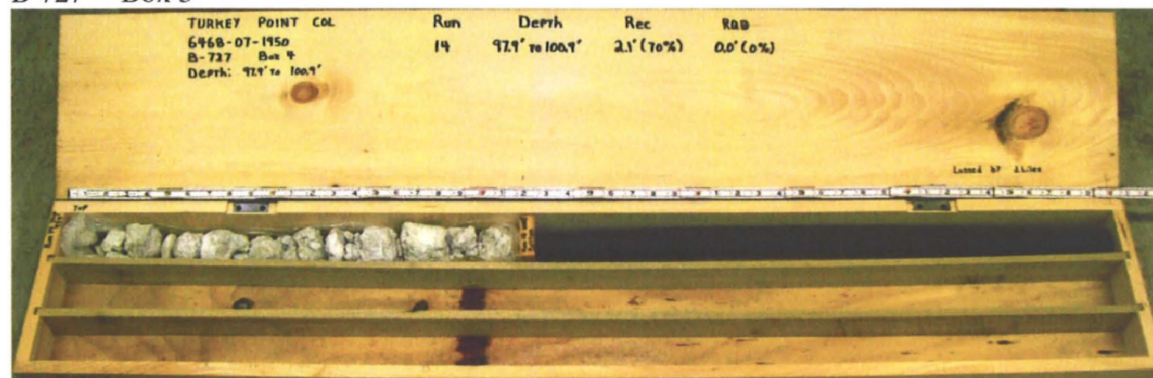
B-727 - Box 1



B-727 - Box 2



B-727 - Box 3



B-727 - Box 4



GEOTECHNICAL BORING LOG

Prepared By JPJ Date 5-30-08

Checked By JPJ Date 5-30-08

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-728					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core				0 HR. NA		
GROUND ELEV.: -1.4 ft (NAVD88)					NORTHING: 397,071 US ft (NAD83/90)					EASTING: 875,620 US ft (NAD83/90)				24 HR. NA		
TOTAL DEPTH: 126.6 ft			BORING DIAMETER: 4" to 25.0', 3" to 126.6'					CASING DEPTH: 4" to 25.0', 3" to 113.5'				HAMMER (ID):140 lb. Auto (M06)				
DATE STARTED: 4/5/08			COMPLETED: 4/1/08			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	WOH	WOH	WOH							728-1		-1.4		MUCK, black (2.5Y2.5/1), very soft, wet, strong HCl reaction	0.0
-3.8	2.4										728-2A&B					
		WOH	1	4									-4.5		LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, strong HCl reaction, little fine grained sand, oolitic (Miami Formation)	3.1
-6.4	5.0										728-3					
		4	7	6												
-8.9	7.5										728-4					
		6	6	6												
-11.3	9.9										728-5				9.9ft: trace sand	
		4	5	11												
-13.5	12.1										728-6				12.1ft: soft	
		9	15	12												
-16.2	14.8										728-7					
		4	5	17												
-22.8	21.4															
		6	8	5							728-8				21.4ft: very soft	
															23.7ft: Switch sampling method to coring	
-27.9	26.5												-26.4			
-28.7	27.3	12	50/0.3								728-9				LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)	25.0
											RUN-1				23.7ft: moderately hard, moderately indurated, trace fine sand	
-30.7	29.3														29.3ft: hard, indurated, few vugs, coralline	
											RUN-2					
-35.7	34.3										RUN-3				34.3ft: recrystallized calcite	
-40.7	39.3										RUN-4				39.3ft: trace vugs	
-45.7	44.3										RUN-5				44.3ft: fossiliferous	
-50.7	49.3										RUN-6				49.3ft: white (2.5Y8/1) to 49.9ft, then gray (10YR5/1) to 51.0ft	
													-52.4			51.0
-55.7	54.3														LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, strong HCl reaction, fossiliferous, trace recrystallized calcite, few shell molds and casts (Lower Fort Thompson Formation)	
											RUN-7				54.3ft: moderately hard to hard, moderately indurated to indurated, trace vugs	
-60.7	59.3														59.3ft: medium hard to moderately hard, friable to moderately indurated, few vugs, trace sand	
											RUN-8					
-65.7	64.3										RUN-9				64.3ft: trace vugs, little fine grained sand	
-70.7	69.3										RUN-10				69.3ft: hard, indurated	
-72.2	70.8										RUN-11				70.8ft: moderately hard, moderately indurated, trace sand	

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