



SHEET 2 OF 3

BECHTEL PROJECT NO.: 25409					MACTEC PROJECT NO.: 6468-07-1950					COUNTY: Miami-Dade			GEOLOGIST: O. Rodriguez/G. Pillappa				
SITE DESCRIPTION: Turkey Point COL					DRILL MACHINE: CME-550 (ATL)					DRILLER: L. Carter/ J. Landeros					GROUND WATER (ft)		
BORING NO.: B-713					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.1 ft (NAVD88)					NORTHING: 397,179 US ft (NAD83/90)					EASTING: 875,959 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 152.5 ft			BORING DIAMETER: 4" to 31.0', 3" to 152.5'					CASING DEPTH: 4" to 31.0', 3" to 118.4'					HAMMER (ID): 140 lb. Auto (MEC-03)				
DATE STARTED: 4/15/08			COMPLETED: 4/19/08			CORE SIZE: HQ3			BITS USED: 2 15/16" 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							
-75.9					Continued from previous page												
-79.3	78.2										RUN-11			LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, few vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)			
-84.3	83.2										RUN-12			78.2ft: soft to hard, friable to indurated, trace fine sand, few shell molds and casts			
-89.3	88.2										RUN-13			83.2ft: hard, indurated			
-94.3	93.2										RUN-14			88.2ft: hard to moderately hard, indurated to moderately indurated, trace vugs			
-99.3	98.2										RUN-15			93.2ft: hard, moderately indurated			
-104.3	103.2										RUN-16			98.2ft: indurated			
-109.3	108.2										RUN-17			103.2ft: little to some shell molds and casts			
-114.3	113.2										RUN-18			108.2ft: hard to moderately hard, moderately indurated, little vugs			
-119.6	118.5	10	8	7							713-11			113.2ft: moderately hard, moderately indurated to friable			
														POORLY GRADED SAND (SP), pale yellow (5Y8/2), medium dense, wet, strong HCl reaction, trace cemented sand (Tamiami Formation)			
-130.6	129.5	6	3	4							713-12			129.5ft: Silty SAND (SM), pale yellow (5Y8/3), loose, wet, strong HCl reaction, trace cemented sand fragments			
-140.6	139.5	8	7	8							713-13			139.5ft: greenish gray (10Y6/1), medium dense			
-150.6	149.5																

TURKEY POINT COL BORE TURKEY POINT G.P. TURKEY POINT COL GDT 5/20/08

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: O. Rodriguez/G. Pillappa			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (ATL)				DRILLER: L. Carter/ J. Landeros			GROUND WATER (ft) 0 HR. NA 24 HR. NA		
BORING NO.: B-713				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core					
GROUND ELEV.: -1.1 ft (NAVD88)				NORTHING: 397,179 US ft (NAD83/90)				EASTING: 875,959 US ft (NAD83/90)					
TOTAL DEPTH: 152.5 ft				BORING DIAMETER: 4" to 31.0', 3" to 152.5'				CASING DEPTH: 4" to 31.0', 3" to 118.4'			HAMMER (ID): 140 lb. Auto (MEC-03)		
DATE STARTED: 4/15/08				COMPLETED: 4/19/08				CORE SIZE: HQ3			BITS USED: 2 15/16" 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			
-150.7					Continued from previous page								
-152.1	151.0	12	20	20						713-14			149.5ft: light olive gray (5Y6/2), dense
		10	9	10						713-15			151.0ft: greenish gray (10Y6/1), medium dense
													152.5
													Boring Terminated at Elevation -153.6 ft

TURKEY POINT COLBORE TURKEY POINT.GPJ 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: O. Rodriguez/G. Pillappa		
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-550 (ATL)				DRILLER: L. Carter/ J. Landeros			GROUND WATER (ft) 0 HR. NA 24 HR. NA	
BORING NO.: B-713				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				
GROUND ELEV.: -1.1 ft (NAVD88)				NORTHING: 397,179 US ft (NAD83/90)				EASTING: 875,959 US ft (NAD83/90)				
TOTAL DEPTH: 152.5 ft				CASING DEPTH: 4" to 31.0', 3" to 118.4'						HAMMER (ID): 140 lb. Auto (MEC-03)		
DATE STARTED: 4/15/08		COMPLETED: 4/19/08		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 @ 31.1 ft		
-32.2	31.1	2.1	0.54	(2.1)	(2.1)	RUN-1	(17.0)	(15.5)		LIMESTONE, boundstone, light gray (10YR7/2), very soft, moist, strong HCl reaction (Upper Fort Thompson Formation)		
-34.3	33.2	5.0	0.45	100%	100%		98%	89%				
		5.0	0:11/0.1	(5.0)	(5.0)	RUN-2				24.0ft. loss of circulation (continued)		
			0.46	100%	100%					31.1ft. hard, indurated, coralline, trace vugs, fossiliferous		
			0.59									
			1.13									
-39.3	38.2	5.0	1.03	(4.8)	(4.2)	RUN-3				38.2ft. white (10YR8/1), to pale yellow (5Y8/3), few vugs		
			0.54	96%	84%							
			0.56									
			1.59									
			2.27									
			2.36									
			1.59									
-44.3	43.2	5.0	1.22	(4.8)	(4.2)	RUN-4				43.2ft. white (10YR8/1) and pale brown (10YR8/2), to 46.4ft then gray (10YR6/2)		
			2.44	96%	84%							
			2.57									
			2.30									
			1.35									
-49.3	48.2	5.0	1.11	(4.7)	(4.0)	RUN-5	(48.0)	(24.0)		48.2ft. gray (10YR6/2) to 48.5ft		
			2.08	94%	80%		73%	37%				
			2.31									
			1.50									
			2.02									
-54.3	53.2	5.0	1.06	(4.5)	(3.0)	RUN-6				53.2ft. hard to moderately hard, indurated to moderately indurated		
			1.03	90%	60%							
			0.42									
			1.01									
			0.33									
-59.3	58.2	5.0	0.41	(4.7)	(2.3)	RUN-7				58.2ft. hard, indurated		
			1.59	94%	46%							
			1.00									
			0.50									
			1.00									
-64.3	63.2	5.0	0.45	(4.3)	(2.0)	RUN-8				63.2ft. medium hard to hard, friable to indurated		
			2.23	86%	40%							
			1.36									
			2.57									
			1.07									
-69.3	68.2	5.0	2.51	(2.1)	(0.7)	RUN-9				68.2ft. hard, indurated, no vugs, trace shell molds and casts		
			1.08	42%	14%							
			1.28									
			1.30									
			3.35									
-74.3	73.2	5.0	0.30	(2.6)	(0.0)	RUN-10						
			1.34	52%	0%							
			0.53									
			3.02									
			1.49									
-79.3	78.2	5.0	1.04	(3.6)	(1.0)	RUN-11				78.2ft. soft to hard, friable to indurated, trace fine sand, few shell molds and casts		
			0.51	72%	20%							
			1.04									
			1.39									
			2.15									
-84.3	83.2	5.0	1.29	(4.0)	(1.7)	RUN-12				83.2ft. hard, indurated		
			0.16	80%	34%							
			0.53									
			2.02									
			4.19									
-89.3	88.2	5.0	1.43	(3.4)	(2.5)	RUN-13				88.2ft. hard to moderately hard, indurated to moderately indurated, trace vugs		
			0.57	68%	50%							
			0.59									
			0.24									
			0.24									
-94.3	93.2	5.0	0.56	(3.0)	(1.2)	RUN-14				93.2ft. hard, moderately indurated		
			0.16	60%	24%							
			0.27									
			0.22									
			0.39									
-99.3	98.2	5.0	0.16	(3.6)	(1.8)	RUN-15				98.2ft. indurated		
			0.29	72%	36%							
			1.10									
			1.27									
			1.12									
-104.3	103.2	5.0	1.55	(5.0)	(3.3)	RUN-16				103.2ft. little to some shell molds and casts		
			1.16	100%	66%							

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