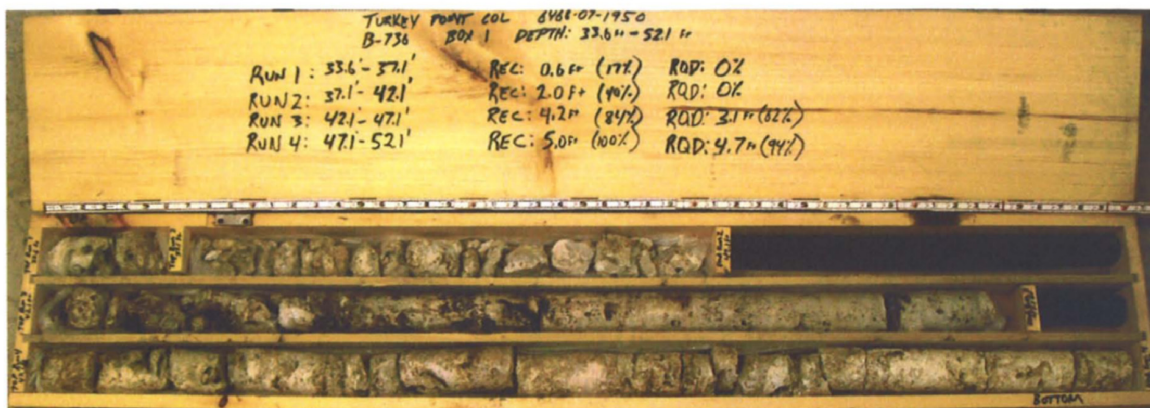




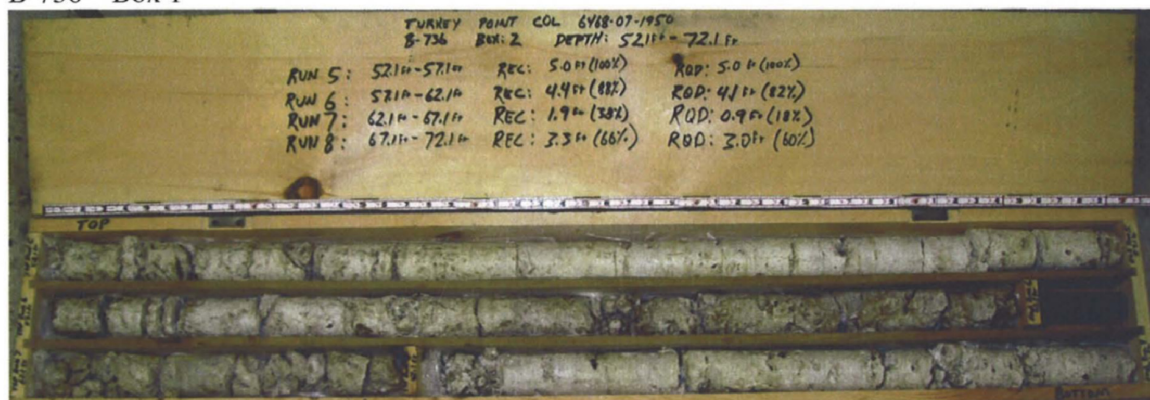
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Lehman
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-45C (RAL)	DRILLER: D. Rhodes/ N. Vasquez	GROUND WATER (ft)
BORING NO.: B-736	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -0.5 ft (NAVD88)	NORTHING: 395,809 US ft (NAD83/90)	EASTING: 876,107 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 125.0 ft	CASING DEPTH: 4" to 24.8', 3" to 113.3'	HAMMER (ID): 140 lb. Auto (MEC-12)	
DATE STARTED: 4/5/08	COMPLETED: 4/8/08	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
-112.6	112.1		0.55 0.36 1.07 0.46	26%	0%					LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, few vugs, recrystallized calcite, trace to few shell molds and casts (Lower Fort Thompson Formation) (continued)
		5.0	0.52 1:16 1.12 0.53 1.01	(0.9) 18%	(0.0) 0%	RUN-17				112.1ft: soft to moderately hard, friable to moderately indurated, little sand
-117.6	117.1						(0.0) 0%	(NA)		POORLY GRADED SAND (SP-SM), light gray (5Y7/2), medium dense, wet, fine grained sand, weak HCl reaction, fragments of cemented sand (Tamiami Formation)
										Coring Terminated at Elevation -117.6

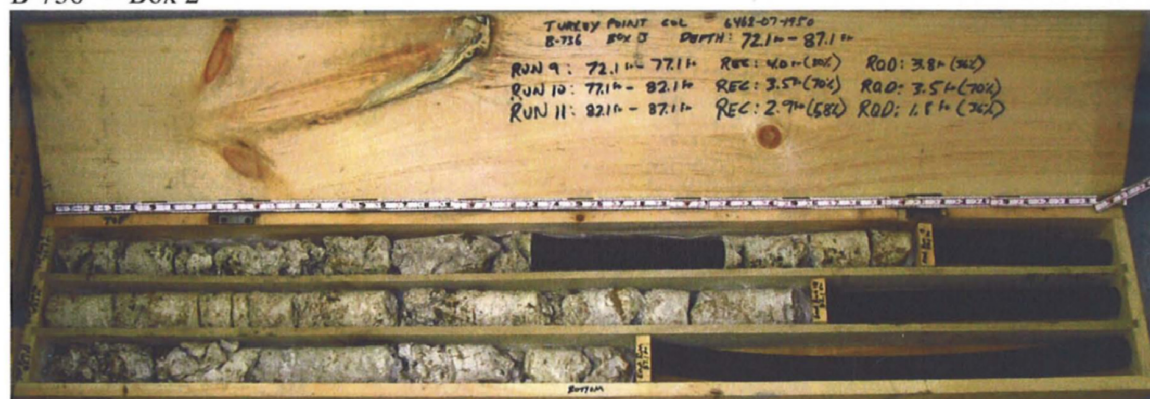
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/19/08



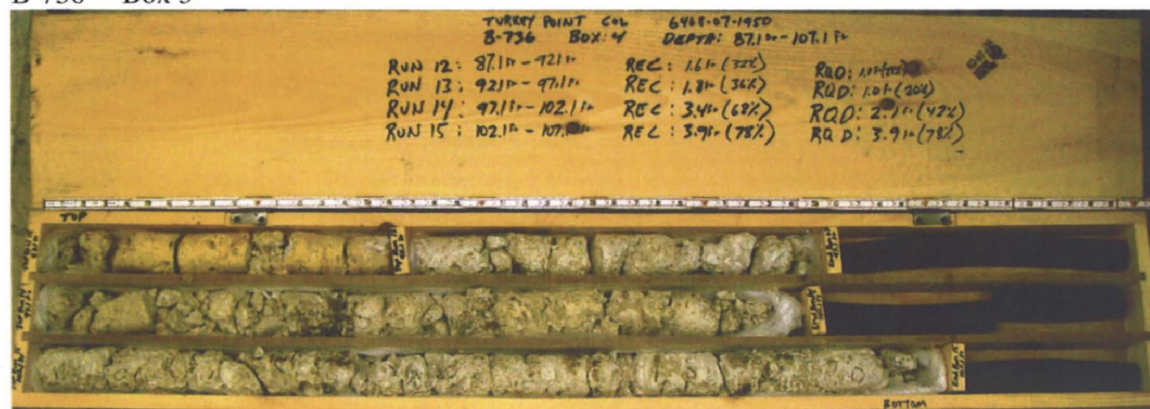
B-736 - Box 1



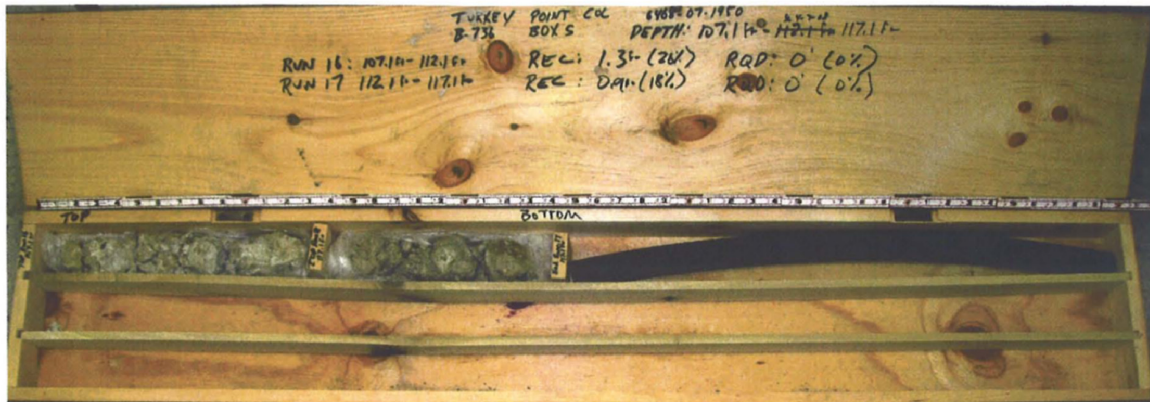
B-736 - Box 2



B-736 - Box 3



B-736 - Box 4



B-736 - Box 5



GEOTECHNICAL BORING LOG

Prepared By MM Date 7-10-08Checked By MM Date 7-10-08

SHEET 1 OF 3

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: F. Cox/ R. Hall				GROUND WATER (ft)		
BORING NO.: B-737				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA		
GROUND ELEV.: -0.6 ft (NAVD88)				NORTHING: 395,804 US ft (NAD83/90)				EASTING: 876,238 US ft (NAD83/90)				24 HR. NA		
TOTAL DEPTH: 153.3 ft		BORING DIAMETER: 4" to 30.0', 3" to 153.3'				CASING DEPTH: 4" to 30.0', 3" to 115.0'				HAMMER (ID):140 lb. Auto (893)				
DATE STARTED: 4/3/08		COMPLETED: 4/5/08		CORE SIZE: HQ3				BITS USED: 2 15/16" Tricone						
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO	LOG MOI	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100				
-0.6					Ground Surface								0.0	
-0.6	0.0	WOR	WOR	WOH	•0						737-1		MUCK, light brownish gray (10YR6/2), mottled very dark gray (10YR3/1), and black (10YR2/1), very soft, wet, little fine grained sand, trace shell fragments, strong HCl reaction	
-3.1	2.5			WOH	•0						737-2			
-5.6	5.0	WOH	WOH	WOH	•0						737-3		2.5ft: very dark gray (10YR3/1), weak HCl reaction	4.5
-8.1	7.5	5	5	4	•9						737-4		LIMESTONE, boundstone, white (10YR8/1), very soft, wet, trace shells, strong HCl reaction, oolitic (Miami Formation)	
-10.6	10.0	1	2	15	•17						737-5		10.0ft: trace fine grained sand	
-13.1	12.5	2	2	4	•6						737-6		12.5ft: soft, trace dark brown rocky fragments	
-15.6	15.0	5	7	14	•21						737-7		15.0ft: hard, trace fragments of cemented sands	
-19.2	18.6	8	8	50/0.2						58/0.7	737-8		18.6ft: white (7.5YR8/1), soft, fossiliferous	
-24.2	23.6	17	10	15	•25						737-9		23.6ft: white (2.5Y8/1), very soft	
-29.2	28.6	4	6	3	•9						737-10		28.6ft: white (10YR8/1), mottled greenish gray (5GY5/1), some fine grained sand	
-34.2	33.6				•8						737-11		LIMESTONE, boundstone, white (10YR8/1 and 2.5Y8/1), hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)	32.0
-34.4	33.8	50/0.2								50/0.2	RUN-1		33.8ft: Switch sampling method to coring	
-37.4	36.8										RUN-2		36.8ft: hard, indurated, coralline, trace recrystallized calcite, little locally interconnected vugs, fossiliferous	
-42.4	41.8										RUN-3 737-CS-01		41.8ft: trace vugs	
-47.4	46.8										RUN-4			
-52.4	51.8										RUN-5		LIMESTONE, boundstone, white (7.5YR8/1), moderately hard to hard, friable to indurated, trace vugs, fossiliferous, strong HCl reaction, few shell molds and casts (Lower Fort Thompson Formation)	48.1
-57.4	56.8										RUN-6		51.8ft: white (2.5Y8/1), moderately hard, moderately indurated, trace sand	
-62.4	61.8										RUN-7		56.8ft: white (10YR8/1), moderately hard to hard, moderately indurated to indurated	
-67.4	66.8										RUN-8		61.8ft: moderately hard, moderately indurated	
-72.4	71.8										RUN-9		71.8ft: no recovery, possible interbedded soft, friable, limestone and sand layers	

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



SHEET 2 OF 3

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: F. Cox/ R. Hall				GROUND WATER (ft)	
BORING NO.: B-737				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -0.6 ft (NAVD88)				NORTHING: 395,804 US ft (NAD83/90)				EASTING: 876,238 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 153.3 ft		BORING DIAMETER: 4" to 30.0', 3" to 153.3'				CASING DEPTH: 4" to 30.0', 3" to 115.0'				HAMMER (ID): 140 lb. Auto (893)			
DATE STARTED: 4/3/08		COMPLETED: 4/5/08		CORE SIZE: HQ3		BITS USED: 2 15/16" Tricone							
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	MOI		
-75.4					Continued from previous page								
-77.4	76.8												LIMESTONE, boundstone, white (7.5YR8/1), moderately hard to hard, friable to indurated, trace vugs, fossiliferous, strong HCl reaction, few shell molds and casts (Lower Fort Thompson Formation) (continued) 76.8ft: Switch sampling method to SPT 76.8ft: hard 77.8ft: Switch sampling method to coring 77.8ft: moderately hard, moderately indurated 81.8ft: moderately hard to hard, moderately indurated to indurated, few vugs, trace shell molds and casts 86.8ft: moderately hard to medium hard, trace vugs 91.8ft: medium hard, moderately indurated 96.8ft: Switch sampling method to SPT 96.8ft: moderately hard 98.3ft: Switch sampling method to coring 98.3ft: few vugs, mostly shell molds and casts
-78.4	77.8	22	50/0.5										
-82.4	81.8												
-87.4	86.8												
-92.4	91.8												
-97.4	96.8												
-98.9	98.3	34	13	27									
-102.4	101.8												
-107.4	106.8												
-112.4	111.8												
		6	3	6									
-122.4	121.8	5	5	11									
-132.4	131.8	5	5	9									
-142.4	141.8	6	11	15									

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



SHEET 3 OF 3

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: F. Cox/ R. Hall			GROUND WATER (ft)				
BORING NO.: B-737			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: -0.6 ft (NAVD88)			NORTHING: 395,804 US ft (NAD83/90)			EASTING: 876,238 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 153.3 ft			BORING DIAMETER: 4" to 30.0', 3" to 153.3'			CASING DEPTH: 4" to 30.0', 3" to 115.0'			HAMMER (ID): 140 lb. Auto (893)				
DATE STARTED: 4/3/08			COMPLETED: 4/5/08			CORE SIZE: HQ3			BITS USED: 2 15/16" Tricone				
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
-150.2					Continued from previous page								
-152.4	151.8	5	8	13						737-18			
												-153.9	153.3
												Boring Terminated at Elevation -153.9 ft	

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



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: F. Cox/ R. Hall				GROUND WATER (ft)	
BORING NO.: B-737				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -0.6 ft (NAVD88)				NORTHING: 395,804 US ft (NAD83/90)				EASTING: 876,238 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 153.3 ft				CASING DEPTH: 4" to 30.0', 3" to 115.0'						HAMMER (ID): 140 lb. Auto (893)			
DATE STARTED: 4/3/08		COMPLETED: 4/5/08		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 @ 33.8 ft	
-34.4	33.8	3.0	3:08 3:20 2:50	(3.0) 100%	(1.0) 33%		RUN-1	(12.5) 87%	(6.6) 46%			LIMESTONE, boundstone, white (10YR8/1 and 2.5Y8/1), hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) (continued)	
-37.4	36.8											33.8ft: hard, indurated, coralline, trace recrystallized calcite, little locally interconnected vugs, fossiliferous	
		5.0	2:16 1:28 3:25 3:16 3:25	(3.8) 76%	(1.2) 24%		RUN-2					36.8ft: few vugs, interbedded friable layers	
-42.4	41.8											41.8ft: trace vugs	
		5.0	2:54 4:09 3:20 3:30 3:00	(4.4) 88%	(4.4) 88%		RUN-3 737-CS-01 737-CS-02						
-47.4	46.8												
		5.0	2:50 2:29 3:18 2:27 2:46	(5.0) 100%	(3.7) 74%		RUN-4	(24.2) 40%	(7.7) 13%			-48.7 48.1 LIMESTONE, boundstone, white (7.5YR8/1), moderately hard to hard, friable to indurated, trace vugs, fossiliferous, strong HCl reaction, few shell molds and casts (Lower Fort Thompson Formation)	
-52.4	51.8											51.8ft: white (2.5Y8/1), moderately hard, moderately indurated, trace sand	
		5.0	1:59 2:18 2:17 2:36 4:55	(2.6) 52%	(0.8) 16%		RUN-5						
-57.4	56.8												
		5.0	2:51 1:52 1:43 1:44 2:05	(4.3) 86%	(1.2) 24%		RUN-6					56.8ft: white (10YR8/1), moderately hard to hard, moderately indurated to indurated	
-62.4	61.8												
		5.0	1:55 1:06 1:37 0:58 1:29	(0.9) 18%	(0.0) 0%		RUN-7					61.8ft: moderately hard, moderately indurated	
-67.4	66.8												
		5.0	1:35 1:34 1:53 1:12 1:01	(0.9) 18%	(0.0) 0%		RUN-8						
-72.4	71.8												
		5.0	0:57 0:43 1:21 1:51 1:56	(0.0) 0%	(0.0) 0%		RUN-9					71.8ft: no recovery, possible interbedded soft, friable, limestone and sand layers	
-77.4	76.8												
			N=50/1.0				737-12					76.8ft: Switch sampling method to SPT	
-78.4	77.8	4.0	2:51 2:37 2:44 2:49	(2.0) 50%	(0.7) 18%		RUN-10					76.8ft: hard	
-82.4	81.8											77.8ft: Switch sampling method to coring	
		5.0	2:00 0:45 0:52 2:03 2:37	(2.2) 44%	(0.0) 0%		RUN-11					77.8ft: moderately hard, moderately indurated	
-87.4	86.8											81.8ft: moderately hard to hard, moderately indurated to indurated, few vugs, trace shell molds and casts	
		5.0	3:15 2:07 2:36 1:30 1:15	(1.7) 34%	(0.4) 8%		RUN-12					86.8ft: moderately hard to medium hard, trace vugs	
-92.4	91.8												
		5.0	2:22 0:57 0:47 1:26 1:37	(0.5) 10%	(0.0) 0%		RUN-13					91.8ft: medium hard, moderately indurated	
-97.4	96.8												
			N=40				737-13					96.8ft: Switch sampling method to SPT	
-98.9	98.3	3.5	2:10 2:03 1:13	(3.3) 94%	(0.9) 26%		RUN-14					96.8ft: moderately hard	
-102.4	101.8											98.3ft: Switch sampling method to coring	
		5.0	1:14/0.5 1:22 1:05 1:20 1:09 1:12	(1.8) 36%	(0.0) 0%		RUN-15					98.3ft: few vugs, mostly shell molds and casts	
-107.4	106.8												
		5.0	1:00	(0.3)	(0.0)		RUN-16						

TURKEY POINT COL CORE TURKEY POINT GFI TURKEY POINT COL GDT 7 10/08

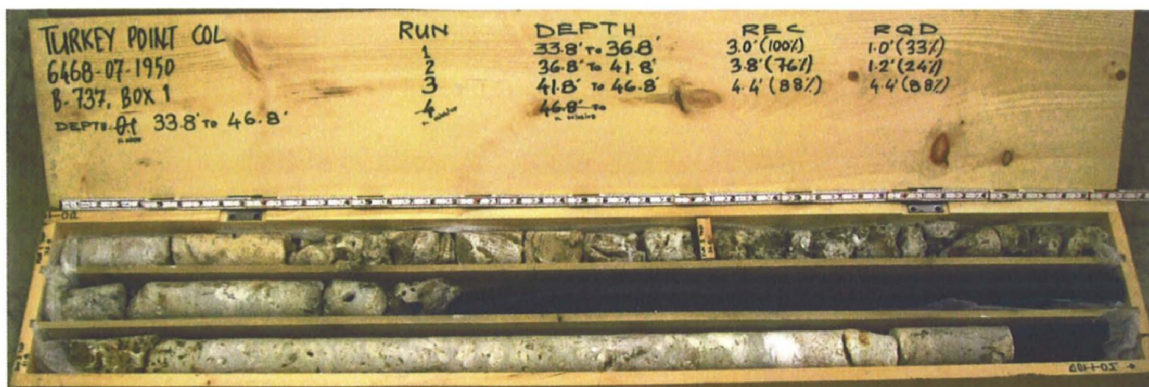


SHEET 2 OF 2

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: F. Cox/ R. Hall	GROUND WATER (ft)
BORING NO.: B-737	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -0.6 ft (NAVD88)	NORTHING: 395,804 US ft (NAD83/90)	EASTING: 876,238 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 153.3 ft	CASING DEPTH: 4" to 30.0', 3" to 115.0'	HAMMER (ID): 140 lb. Auto (893)	
DATE STARTED: 4/3/08	COMPLETED: 4/5/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC (ft) %	ROD (ft) %	SAMP. NO.	REC (ft) %	ROD (ft) %	L O G	DESCRIPTION AND REMARKS
										Continued from previous page
-112.4	111.8		1:25 1:00 1:27 0:47	6%	0%					LIMESTONE, boundstone, white (7.5YR8/1), moderately hard to hard, friable to indurated, trace vugs, fossiliferous, strong HCl reaction, few shell molds and casts (Lower Fort Thompson Formation) (continued) Coring Terminated at Elevation -112.4

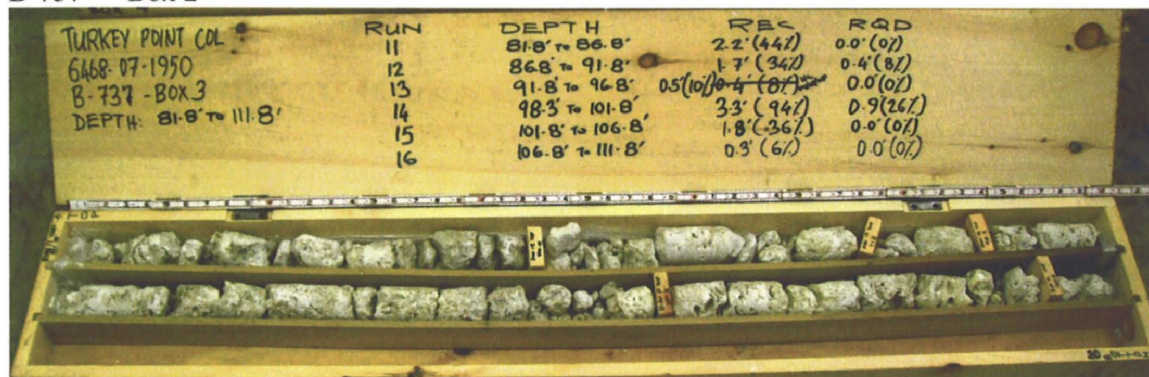
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDI 7-10-08



B-737 - Box 1



B-737 - Box 2



B-737 - Box 3



GEOTECHNICAL BORING LOG

Prepared By Date 7-10-08Checked By Date 7-10-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade				GEOLOGIST: S. Lehman			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-45C (RAL)				DRILLER: D. Rhodes/ K. Guy				GROUND WATER (ft)			
BORING NO.: B-738				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA			
GROUND ELEV.: 0.1 ft (NAVD88)				NORTHING: 397,728 US ft (NAD83/90)				EASTING: 875,607 US ft (NAD83/90)				24 HR. NA			
TOTAL DEPTH: 101.2 ft				BORING DIAMETER: 4" to 13.5', 3" to 101.2'				CASING DEPTH: 4" to 13.5'				HAMMER (ID): 140 lb. Auto (MEC-12)			
DATE STARTED: 4/10/08				COMPLETED: 4/17/08				CORE SIZE: HQ3				BITS USED: 2 7/8" Roller Cone			
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					
0.1					Ground Surface									0.0	
0.1	0.0	WOH	1	WOH	1						738-1		0.1	Sandy FAT CLAY (CH), very dark grayish brown (10YR3/2), very soft, moist, fine sand, strong HCl reaction	
-3.4	3.5	WOH	1	4	5						738-2A&B		-1.9	MUCK, very dark grayish brown (2.5Y3/2), soft, wet, organics, strong HCl reaction	
-6.0	6.1				22						738-3		-4.4	LIMESTONE, boundstone, light gray (2.5Y7/1), very soft, friable, mostly oolitic (Miami Formation)	
-8.4	8.5	16	14	8	7						738-4			6.1ft: white (2.5Y8/1), soft, moderately indurated	
-11.2	11.3	19	5	2	11						738-5			8.5ft: very soft, moderately indurated to friable	
-13.5	13.6	9	4	7							738-6			11.3ft: moderately indurated	
		15	19	17	36									13.6ft: medium hard	
-18.5	18.6										738-7			18.7ft: Switch sampling method to coring	
-18.6	18.7	50/0.1									RUN-1			18.6ft: hard, indurated	
-21.8	21.9										RUN-2			18.7ft: soft to moderately hard, friable to moderately indurate, trace locally interconnected vugs	
													-24.4	LIMESTONE, boundstone, white (2.5Y8/1), medium hard to moderately hard, friable to moderately indurated, few vugs, recrystallized calcite, coralline (Upper Fort Thompson Formation)	
-26.8	26.9										RUN-3				
											RUN-4			31.9ft: moderate hard, moderately indurated, soft friable zones, trace medium to coarse grained sand	
-31.8	31.9										RUN-5				
											RUN-6			36.9ft: few vugs	
-36.8	36.9										RUN-7			39.4 to 41.1ft: possible interbedded sand layers; based on drilling rates and recovery	
											RUN-8				
-41.8	41.9										RUN-9			41.9ft: hard, indurated	
											RUN-10				
-46.8	46.9										RUN-11			46.9ft: white (2.5Y8/1), and gray (2.5Y6/1), moderately hard, moderately indurated	
											RUN-12				
-51.8	51.9												-49.3	LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, trace shell molds and casts (Lower Fort Thompson Formation)	
-56.8	56.9													56.9 to 101.2ft: possible interbedded sand layers within soft, friable limestone; based on drilling rates and recovery	
-61.8	61.9										738-8			Below 61.9ft: Alternate sampling methods between SPT and coring	
-62.3	62.4	50/0.5									RUN-10			61.9ft: moderately indurated	
-64.5	64.6										RUN-11			62.4ft: indurated, few medium to coarse grained sand	
-66.8	66.9										738-9			66.9ft: POORLY GRADED SAND (SP), light gray (10YR7/1), medium dense, wet, strong HCl reaction, few shell fragments	
-68.3	68.4	4	10	15	25						RUN-12			68.4ft: LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated	
													-69.9		
-71.8	71.9	WOR	WOR	WOR							738-10		-71.8		

TURKEY POINT COL BORE: TURKEY POINT COL GDI 7/10/08

BECHTEL PROJECT NO.: 25409			MACTEC PROJECT NO.: 6468-07-1950			COUNTY: Miami-Dade			GEOLOGIST: S. Lehman				
SITE DESCRIPTION: Turkey Point COL			DRILL MACHINE: CME-45C (RAL)			DRILLER: D. Rhodes/ K. Guy			GROUND WATER (ft)				
BORING NO.: B-738			DRILL METHOD: Mud Rotary/ Core			SAMPLE METHODS: SPT/Core			0 HR. NA				
GROUND ELEV.: 0.1 ft (NAVD88)			NORTHING: 397,728 US ft (NAD83/90)			EASTING: 875,607 US ft (NAD83/90)			24 HR. NA				
TOTAL DEPTH: 101.2 ft			BORING DIAMETER: 4" to 13.5', 3" to 101.2'			CASING DEPTH: 4" to 13.5'			HAMMER (ID):140 lb. Auto (MEC-12)				
DATE STARTED: 4/10/08			COMPLETED: 4/17/08			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			
-74.7					Continued from previous page								
-76.4	76.5									738-11A&B			
-77.9	78.0	1	2	28						RUN-13			POORLY GRADED SAND (SP), light gray (10YR7/1), very loose, wet, strong HCl reaction, few shell fragments, medium to coarse grained sand 71.9-74.5ft: rod drop (continued)
-81.8	81.9									738-12			
-83.1	83.2	24	41	50/0.3						RUN-14			LIMESTONE, boundstone, white (2.5Y8/1), soft to hard, friable to indurated, possible interbedded sand layers 81.9ft: hard, moderately indurated to indurated 83.2ft: soft to hard, friable to indurated
-86.8	86.9									738-13			
-87.2	87.3	50/0.4								RUN-15			86.9ft: hard, indurated 87.9ft: soft to hard, friable to indurated
-91.8	91.9									RUN-16			91.9ft: little vugs, few shell molds and casts
-96.0	96.1									RUN-17			
-100.8	100.9									738-14			-101.1 100.9ft: hard, indurated
		50/0.3											Boring Terminated at Elevation -101.1 ft

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



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: S. Lehman			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-45C (RAL)				DRILLER: D. Rhodes/ K. Guy				GROUND WATER (ft)	
BORING NO.: B-738				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: 0.1 ft (NAVD88)				NORTHING: 397,728 US ft (NAD83/90)				EASTING: 875,607 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 101.2 ft				CASING DEPTH: 4" to 13.5'						HAMMER (ID): 140 lb. Auto (MEC-12)			
DATE STARTED: 4/10/08		COMPLETED: 4/17/08		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 @ 18.7 ft													
-18.6	18.7	3.2	0.44 0.05	(0.6) 19%	(0.0) 0%	RUN-1	(0.6) 10%	(0.0) 0%				LIMESTONE, boundstone, light gray (2.5Y7/1), very soft, friable, mostly oolitic (Miami Formation) (continued)	
-21.8	21.9		0.34									18.7ft: soft to moderately hard, friable to moderately indurate, trace locally interconnected vugs	
		5.0	1:10/0.2	(2.1) 42%	(1.8) 36%	RUN-2							
			0.54 1:03										
-26.8	26.9		0.59 1:14				(15.2) 61%	(10.4) 42%				-24.4	LIMESTONE, boundstone, white (2.5Y8/1), medium hard to moderately hard, friable to moderately indurated, few vugs, recrystallized calcite, coralline (Upper Fort Thompson Formation)
		5.0	1:24	(3.6) 72%	(2.5) 50%	RUN-3							
			1:52 0:52										
-31.8	31.9		1:18 1:24										
		5.0	1:14	(2.7) 54%	(1.8) 36%	RUN-4							31.9ft: moderate hard, moderately indurated, soft friable zones, trace medium to coarse grained sand
			2:08 2:20										
-36.8	36.9		2:45 2:38										
		5.0	0:18 0:59	(1.5) 30%	(0.0) 0%	RUN-5							36.9ft: few vugs
			0:29 0:09										39.4 to 41.1ft: possible interbedded sand layers; based on drilling rates and recovery
-41.8	41.9		0:43	(2.8) 56%	(2.3) 46%	RUN-6							41.9ft: hard, indurated
		5.0	1:10 1:15										
-46.8	46.9		1:13 2:06										
		5.0	1:42 1:25	(3.8) 76%	(3.3) 66%	RUN-7							46.9ft: white (2.5Y8/1), and gray (2.5Y6/1), moderately hard, moderately indurated
			1:27 1:58										
-51.8	51.9		1:13	(3.6) 72%	(3.6) 72%	RUN-8	(6.9) 43%	(5.9) 37%				-49.3	LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, few vugs, trace shell molds and casts (Lower Fort Thompson Formation)
		5.0	0:52 1:05										
-56.8	56.9		0:46 0:22										
		5.0	0:15	(0.5) 10%	(0.0) 0%	RUN-9							56.9 to 101.2ft: possible interbedded sand layers within soft, friable limestone; based on drilling rates and recovery
			0:43 1:03										
-61.8	61.9		0:51 0:54										
		2.2	1:09	(1.2) 55%	(1.0) 45%	738-8 RUN-10							Below 61.9ft: Alternate sampling methods between SPT and coring
-62.3	62.4		N=50/0.5 0:32/0.5										61.9ft: moderately indurated
-64.5	64.6		1:05	(0.3) 13%	(0.0) 0%	RUN-11							62.4ft: indurated, few medium to coarse grained sand
-66.8	66.9	2.3	4:24/0.7										
			0:22/0.3 0:23 0:09				(0.0) 0%	(NA)				-65.9	66.9ft: POORLY GRADED SAND (SP), light gray (10YR7/1), medium dense, wet, strong HCl reaction, few shell fragments
-68.3	68.4		0:09										
		3.5	N=25 0:16/0.5	(1.0) 29%	(0.4) 11%	RUN-12							
-71.8	71.9		0:27 0:32				(1.0) 53%	(0.4) 21%				-69.9	68.4ft: LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated
			0:12 N=0				(0.0) 0%	(NA)					70.0
			N=30										71.9
						738-10							POORLY GRADED SAND (SP), light gray (10YR7/1), very loose, wet, strong HCl reaction, few shell fragments, medium to coarse grained sand
													71.9-74.5ft: rod drop
						738-11A&B							
-77.9	78.0	3.9	0:40/0.9 0:16 0:15	(1.0) 26%	(0.0) 0%	RUN-13	(7.8) 36%	(1.3) 6%				-71.8	LIMESTONE, boundstone, white (2.5Y8/1), soft to hard, friable to indurated, possible interbedded sand layers
-81.8	81.9		0:47										
			N=91/0.8										
-83.1	83.2	3.7	0:37/0.7 0:13 0:17	(1.1) 30%	(0.0) 0%	RUN-14							81.9ft: hard, moderately indurated to indurated
-86.8	86.9		0:44										83.2ft: soft to hard, friable to indurated
			N=50/0.4 0:57/0.6	(1.5) 33%	(0.0) 0%	738-13 RUN-15							86.9ft: hard, indurated
-87.2	87.3	4.6	0:50 0:54										87.9ft: soft to hard, friable to indurated
			0:41 1:03										
-91.8	91.9		0:27	(2.4) (1.3)		RUN-16							91.9ft: little vugs, few shell molds and casts
		4.2	0:27										

TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDI 7:10:08



SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: S. Lehman
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-45C (RAL)		DRILLER: D. Rhodes/ K. Guy	
BORING NO.: B-738		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: 0.1 ft (NAVD88)		NORTHING: 397,728 US ft (NAD83/90)		EASTING: 875,607 US ft (NAD83/90)	
TOTAL DEPTH: 101.2 ft		CASING DEPTH: 4" to 13.5'			HAMMER (ID): 140 lb. Auto (MEC-12)
DATE STARTED: 4/10/08		COMPLETED: 4/17/08		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) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Continued from previous page
-96.0	96.1		0:32 0:29 0:10	57%	31%					LIMESTONE, boundstone, white (2.5Y8/1), soft to hard, friable to indurated, possible interbedded sand layers (continued)
		4.8	0:59/0.2	(1.8)	(0.0)	RUN-17				
			0:34/0.8 0:41 0:40 1:02 1:40	38%	0%					
-100.8	100.9									-100.8 100.9ft: hard, indurated Coring Terminated at Elevation -100.8

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 7/10/08



B-738 - Box 1



B-738 - Box 2



B-738 - Box 3



GEOTECHNICAL BORING LOG

Prepared By PM Date 7-10-08Checked By PM Date 7-10-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: R. Clark				
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-750 (Miller)				DRILLER: G.Bilbrey/P.McKorkle/J.Tucker				GROUND WATER (ft)		
BORING NO.: B-739				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA		
GROUND ELEV.: -1.6 ft (NAVD88)				NORTHING: 396,963 US ft (NAD83/90)				EASTING: 876,150 US ft (NAD83/90)				24 HR. NA		
TOTAL DEPTH: 101.0 ft		BORING DIAMETER: 4" to 31.0', 3" to 101.0'				CASING DEPTH: 4" to 31.0'				HAMMER (ID):140 lb. Auto (07)				
DATE STARTED: 2/22/08		COMPLETED: 2/24/08		CORE SIZE: HQ3		BITS USED: 2 15/16" Tricone								
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				
-1.6					Ground Surface								-1.6	0.0
-1.6	0.0	WOH	WOH	WOH							739-1			MUCK, light brownish gray (2.5Y6/2), to dark grayish brown (10YR4/2), very soft, wet, strong HCl reaction, mostly organic
-4.1	2.5										739-2			
		WOH	8	50/0.3							739-3			LIMESTONE, boundstone, white (5Y8/1), hard, friable, strong HCl reaction, oolitic (Miami Formation)
-7.1	5.5										739-4			5.5ft: very soft
-8.9	7.3	5	9	7							739-5			7.3ft: soft
-11.5	9.9	14	16	7							739-6			
-14.0	12.4	5	3	4							739-7			9.9ft: very soft, some coarse grained sand, shell fragments
-17.2	15.6	15	10	7							739-8			
-18.0	16.4	18	50/0.3								739-9			15.6ft: hard
											RUN-1			16.4ft: Switch sampling method to coring
-22.4	20.8										RUN-2			16.4ft: indurated, fossiliferous, recrystallized calcite, little locally interconnected vugs, cemented sand and shell fragments
														20.8ft: soft and friable
-27.9	26.3	5	4	15							739-8			26.0ft: loss of circulation
-32.1	30.5													26.3ft: Switch sampling method to SPT
-32.6	31.0	50/0.5									739-9			26.3ft: very soft, some medium grained sand
											RUN-3			LIMESTONE, boundstone, white (5Y8/1), wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)
-37.6	36.0										RUN-4			30.5ft: hard
														31.0ft: Switch sampling method to coring
-42.6	41.0										RUN-5			31.0ft: white (5Y8/1), to pale yellow (5Y8/3), moderately hard, indurated, some vugs, recrystallized calcite
-47.6	46.0										RUN-6			36.0ft: white (5Y8/1), hard, few vugs
														41.0ft: coralline
-52.6	51.0										RUN-7			
-57.6	56.0										RUN-8			
-62.6	61.0										RUN-9			
-67.6	66.0										RUN-10			46.0ft: light gray (5Y7/1)
-72.6	71.0										RUN-11			LIMESTONE, boundstone, white, (5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation)
														66.0ft: little vugs
														71.0ft: moderately hard, moderately indurated

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

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: R. Clark			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-750 (Miller)				DRILLER: G.Bilbrey/P.McKorkle/J.Tucker				GROUND WATER (ft)	
BORING NO.: B-739				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core				0 HR. NA	
GROUND ELEV.: -1.6 ft (NAVD88)				NORTHING: 396,963 US ft (NAD83/90)				EASTING: 876,150 US ft (NAD83/90)				24 HR. NA	
TOTAL DEPTH: 101.0 ft				BORING DIAMETER: 4" to 31.0', 3" to 101.0'				CASING DEPTH: 4" to 31.0'				HAMMER (ID):140 lb. Auto (07)	
DATE STARTED: 2/22/08				COMPLETED: 2/24/08				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.
-76.4					Continued from previous page								
-77.6	76.0									RUN-12		LIMESTONE, boundstone, white, (5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation) <i>(continued)</i> 76.0ft: medium hard to moderately hard 81.0ft: hard, moderately indurated to indurated, few vugs 86.0ft: indurated	
-82.6	81.0									RUN-13			
-87.6	86.0									RUN-14			
-92.6	91.0									RUN-15			
-97.6	96.0									RUN-16			
												-102.6	101.0
Boring Terminated at Elevation -102.6 ft													

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



SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409				MACTEC PROJECT NO.: 6468-07-1950				COUNTY: Miami-Dade		GEOLOGIST: R. Clark			
SITE DESCRIPTION: Turkey Point COL				DRILL MACHINE: CME-750 (Miller)				DRILLER: G.Bilbrey/P.McKorkle/J.Tucker			GROUND WATER (ft) 0 HR. NA 24 HR. NA		
BORING NO.: B-739				DRILL METHOD: Mud Rotary/ Core				SAMPLE METHODS: SPT/Core					
GROUND ELEV.: -1.6 ft (NAVD88)				NORTHING: 396,963 US ft (NAD83/90)				EASTING: 876,150 US ft (NAD83/90)					
TOTAL DEPTH: 101.0 ft				CASING DEPTH: 4" to 31.0'						HAMMER (ID): 140 lb. Auto (07)			
DATE STARTED: 2/22/08		COMPLETED: 2/24/08		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 @ 16.4 ft	
-18.0	16.4	4.4	3:26 4:12 2:34 0:22	(3.1) 70%	(2.6) 59%		RUN-1	(3.1) 33%	(2.6) 28%			LIMESTONE, boundstone, white (5Y8/1), hard, friable, strong HCl reaction, oolitic (Miami Formation) (continued) 16.4ft: indurated, fossiliferous, recrystallized calcite, little locally interconnected vugs, cemented sand and shell fragments 20.8ft: soft and friable	
-22.4	20.8		0:29/0.4	(0.0) 0%	(0.0) 0%		RUN-2						
		5.0	0:25 0:24 1:57 0:18 0:19										
-27.4	25.8		N=19				739-8					26.0ft: loss of circulation 26.3ft: Switch sampling method to SPT 26.3ft: very soft, some medium grained sand	
								(10.6) 66%	(7.1) 44%			28.0	
-32.6	31.0	5.0	N=50/0.5 1:03 0:59 0:47 1:51 3:15	(1.2) 24%	(0.0) 0%		739-9 RUN-3					LIMESTONE, boundstone, white (5Y8/1), wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) 30.5ft: hard 31.0ft: Switch sampling method to coring 31.0ft: white (5Y8/1), to pale yellow (5Y8/3), moderately hard, indurated, some vugs, recrystallized calcite 36.0ft: white (5Y8/1), hard, few vugs	
-37.6	36.0												
		5.0	1:42 1:23 1:37 1:28 1:55	(3.7) 74%	(1.4) 28%		RUN-4						
-42.6	41.0												
		5.0	1:00 1:25 1:43 2:52 2:23	(4.7) 94%	(4.7) 94%		RUN-5					41.0ft: coralline	
-47.6	46.0												
		5.0	1:48 1:22 5:59 1:25 1:34	(5.0) 100%	(5.0) 100%		RUN-6	(37.1) 69%	(25.7) 48%			-48.6	
-52.6	51.0											47.0	
		5.0	1:11 1:10 0:23 0:42 0:23	(4.2) 84%	(3.6) 72%		RUN-7					46.0ft: light gray (5Y7/1) LIMESTONE, boundstone, white, (5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation)	
-57.6	56.0												
		5.0	0:31 0:22 0:15 0:45 1:10	(2.2) 44%	(0.8) 16%		RUN-8						
-62.6	61.0												
		5.0	0:48 1:04 0:56 0:26 0:53	(5.0) 100%	(4.3) 86%		RUN-9						
-67.6	66.0												
		5.0	0:35 0:21 0:18 0:28 1:55	(2.2) 44%	(1.2) 24%		RUN-10					66.0ft: little vugs	
-72.6	71.0												
		5.0	0:28 0:39 1:48 1:49 1:24	(3.4) 68%	(1.8) 36%		RUN-11					71.0ft: moderately hard, moderately indurated	
-77.6	76.0												
		5.0	0:31 0:45 1:03 0:46 0:56	(3.4) 68%	(2.8) 56%		RUN-12					76.0ft: medium hard to moderately hard	
-82.6	81.0												
		5.0	0:57 0:50 1:45 0:39 0:43	(2.5) 50%	(2.0) 40%		RUN-13					81.0ft: hard, moderately indurated to indurated, few vugs	
-87.6	86.0												
		5.0	0:26 0:47 0:33 0:30 0:59	(2.8) 56%	(1.5) 30%		RUN-14					86.0ft: indurated	
-92.6	91.0												

TURKEY POINT COL CORE TURKEY POINT COL GDT 7/10/08

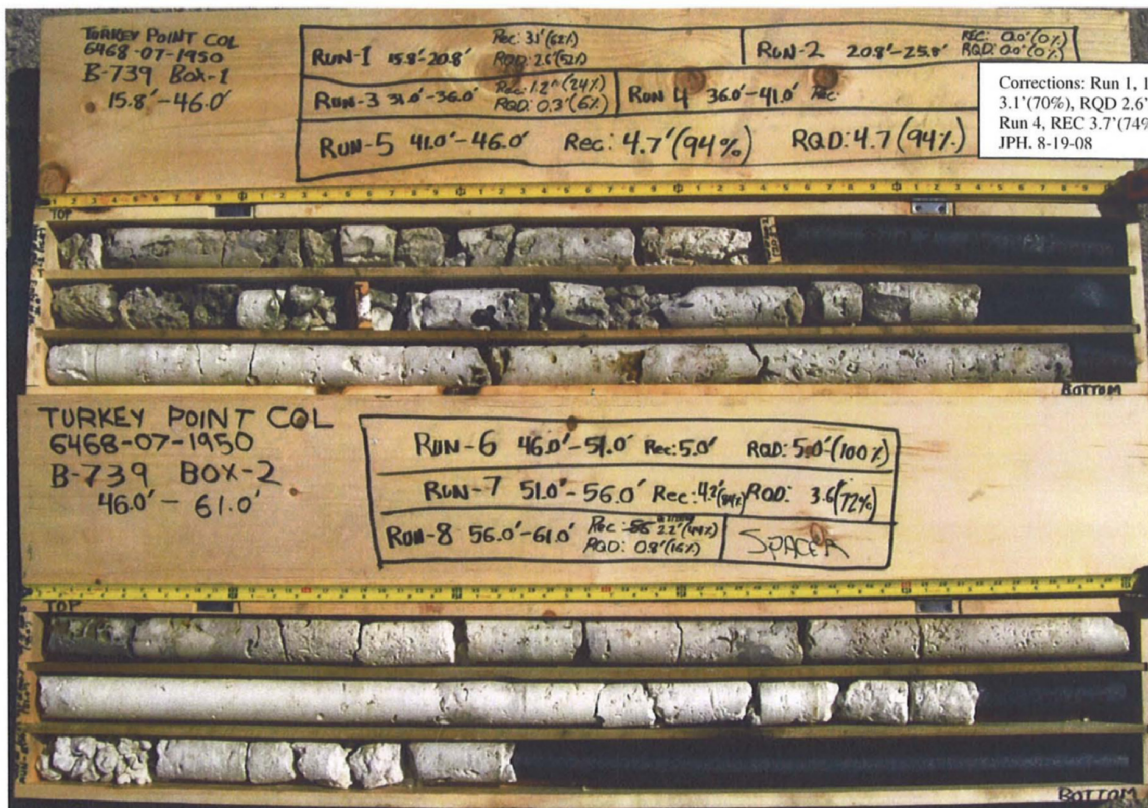


SHEET 2 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: R. Clark
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-750 (Miller)	DRILLER: G.Bilbrey/P.McKorkle/J.Tucker	GROUND WATER (ft)
BORING NO.: B-739	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.6 ft (NAVD88)	NORTHING: 396,963 US ft (NAD83/90)	EASTING: 876,150 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 101.0 ft	CASING DEPTH: 4" to 31.0'	HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 2/22/08	COMPLETED: 2/24/08	CORE SIZE: HQ3	CORE BARREL TYPE: Triple Tube Wireline (Split inner liners)

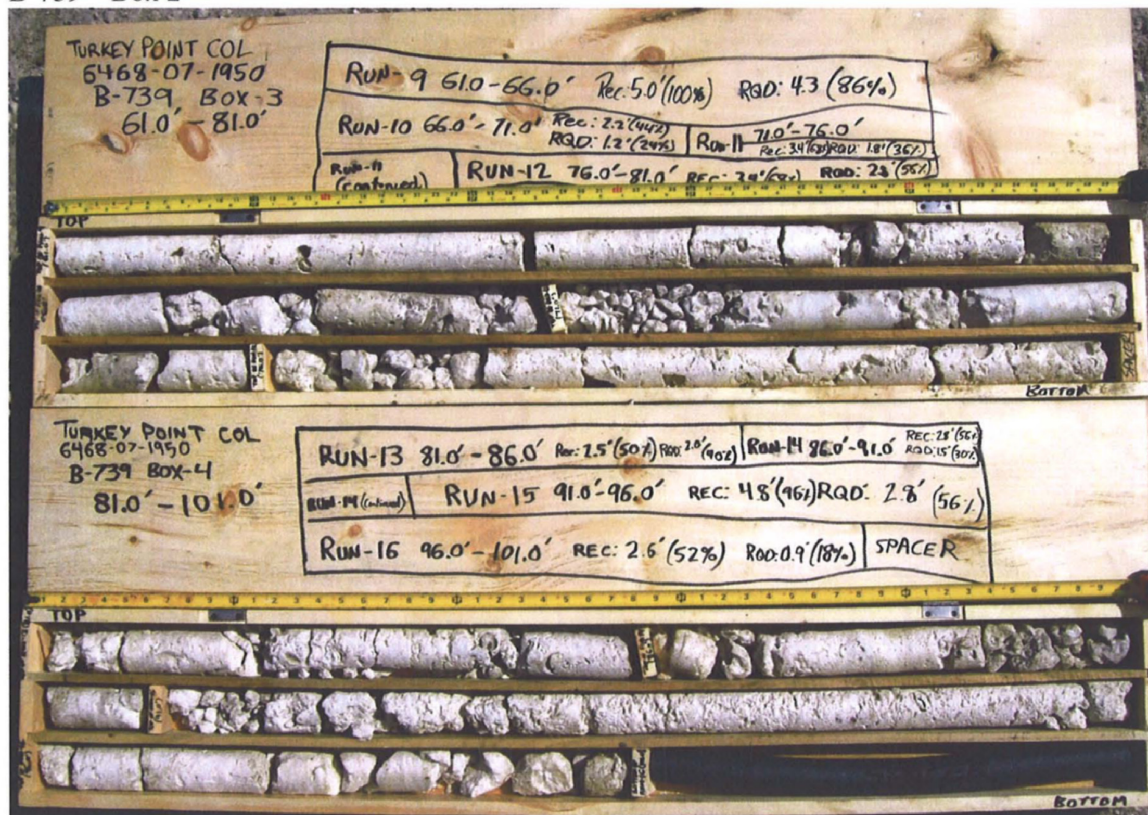
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		L O G	DESCRIPTION AND REMARKS
				REC (ft) %	RQD (ft) %		REC (ft) %	RQD (ft) %		
										Continued from previous page
-97.6	96.0	5.0	0:33 0:26 0:20 0:31 0:33	(4.8) 96%	(2.8) 56%	RUN-15				LIMESTONE, boundstone, white, (5Y8/1), hard, indurated, few vugs, fossiliferous, strong HCl reaction, recrystallized calcite (Lower Fort Thompson Formation) (continued)
-102.6	101.0	5.0	0:31 1:04 0:40 0:39 0:37	(2.6) 52%	(0.9) 18%	RUN-16				
										-102.6 101.0 Coring Terminated at Elevation -102.6

TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL GDT 7/10/08



B-739 - Box 1

B-739 - Box 2



B-739 - Box 3

B-739 - Box 4



GEOTECHNICAL BORING LOG

Prepared By DPK Date 8-14-08Checked By SJZ Date 8/19/08

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-802					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core				0 HR.		NA	
GROUND ELEV.: -1.5 ft (NAVD88)					NORTHING: 398,817 US ft (NAD83/90)					EASTING: 876,266 US ft (NAD83/90)				24 HR.		NA	
TOTAL DEPTH: 128.5 ft			BORING DIAMETER: 6" to 35.0', 4" to 128.5'					CASING DEPTH: 6" to 35.0'				HAMMER (ID): 140 lb. Auto (893)					
DATE STARTED: 4/23/08			COMPLETED: 5/2/08			CORE SIZE: PQ3			BITS USED: 3 15/16" 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							
-1.5					Ground Surface												
-1.5	0.0	WOH	WOH	WOH	0						802-1			-1.5	Sandy FAT CLAY (CH), light gray (10YR7/2), very soft, wet, some fine grained sand, trace organics, strong HCl reaction	0.0	
-4.0	2.5	WOH	5	16							802-A&B			-3.5		2.0	
-6.5	5.0	9	9	7							802-3			-4.8	MUCK, dark gray (10YR4/1), to light gray (10YR7/2), very soft, moist, fine grained sand, trace shell fragments, strong HCl reaction	3.3	
-9.0	7.5	5	19	12							802-4				LIMESTONE, boundstone, white (10YR8/1), soft, wet, fossiliferous, strong HCl reaction, oolitic (Miami Formation)		
-11.5	10.0	5	10	11							802-5				5.0ft: white (7/5YR8/1), very soft		
-14.0	12.5	8	10	22							802-6				7.5ft: white (10YR8/1), medium hard		
-16.5	15.0	6	10	14							802-7				10.0ft: soft		
															12.5ft: medium hard		
-21.5	20.0	18	28	50/0.4							802-8				15.0ft: soft		
-26.0	24.5	6	6	10											20.0ft: hard		
-30.7	29.2	5	6	14							802-9				24.5ft: very soft		
-35.7	34.2	33	38	50/0.3							802-10				LIMESTONE, boundstone, white (10YR8/1), soft, wet, fossiliferous, strong HCl reaction (Fort Thompson Formation)		
-38.5	37.0										802-11				34.2ft: hard		
-43.5	42.0	4	11	38							RUN-1				37.0ft: Alternate sampling method between coring and SPT		
-45.0	43.5										802-12				42.0ft: moderately hard		
-48.5	47.0	7	9	23							RUN-2				43.5ft: medium hard, moderately indurated, few vugs, fossiliferous, recrystallized calcite, little sand		
-50.0	48.5										802-13				47.0ft: friable		
-53.5	52.0	7	17	47							RUN-3						
-55.0	53.5										802-14				52.0ft: hard		
-58.5	57.0	5	11	7							RUN-4						
-60.0	58.5										802-15				57.0ft: very soft		
-63.5	62.0										RUN-5				58.5ft: moderately hard to medium hard, moderately indurated, little vugs, trace fine grained sand		
-68.5	67.0										RUN-6				62.0ft: medium hard, few vugs		
-73.5	72.0										RUN-7				67.0ft: little vugs, coralline		
											RUN-8				72.0ft: trace vugs		

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDT 8/14/08



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-802					DRILL METHOD: Mud Rotary/ Core					SAMPLE METHODS: SPT/Core					0 HR. NA		
GROUND ELEV.: -1.5 ft (NAVD88)					NORTHING: 398,817 US ft (NAD83/90)					EASTING: 876,266 US ft (NAD83/90)					24 HR. NA		
TOTAL DEPTH: 128.5 ft					BORING DIAMETER: 6" to 35.0', 4" to 128.5'					CASING DEPTH: 6" to 35.0'					HAMMER (ID): 140 lb. Auto (893)		
DATE STARTED: 4/23/08					COMPLETED: 5/2/08					CORE SIZE: PQ3					BITS USED: 3 15/16" Tricone		
ELEV.	DEPTH	BLOW COUNT			BLOWS PER FOOT					SAMP.	MOI	LOG	SOIL AND ROCK DESCRIPTION				
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20	40	60	80	100				NO.			
-76.3					Continued from previous page												
-78.5	77.0												LIMESTONE, boundstone, white (10YR8/1), soft, wet, fossiliferous, strong HCl reaction (Fort Thompson Formation) (continued) 77.0ft: hard 78.5ft: medium hard				
-80.0	78.5	9	42	49							802-16 RUN-9						
-83.5	82.0												82.0ft: hard 82.5 to 83.0ft: silty sand, then LIMESTONE, medium hard, few vugs				
-84.0	82.5	50/0.5									802-17 RUN-10	50/0.5					
-88.5	87.0												87.0 to 89.0ft: silty sand, greenish gray (5BG6/1), dense wet calcareous, trace shell fragments, strong HCl reaction 89.0ft: LIMESTONE, boundstone, white (10YR8/1), medium hard, interbedded soft friable limestone, moderately indurated, trace vugs, fossiliferous, strong HCl reaction				
-93.5	92.0										RUN-11						
-98.5	97.0												97.0ft: hard, little fine grained sand 98.5ft: soft to moderately hard, friable to moderately indurated, trace vugs, little shell casts, trace fine grained sand 102.0ft: soft to medium hard, few vugs, most shell casts				
-100.0	98.5	16	28	42							802-18A&B RUN-13						
-103.5	102.0												107.0ft: little vugs				
-108.5	107.0										RUN-14						
-113.5	112.0												112.0ft: gray (10YR7/2), medium hard to soft, moderately indurated to friable, trace vugs, little fine grained sand Silty SAND (SM), light gray (5Y7/2), medium dense, wet, fine grained sand, trace cemented sand, weak HCl reaction (Tamiami Formation)				
-118.5	117.0	5	10	14							RUN-15						
													127.0ft: light greenish gray (10Y7/1) Boring Terminated at Elevation -130.0 ft				
-128.5	127.0	6	8	7							802-19 RUN-16						

TURKEY POINT COL BORE TURKEY POINT COL GDT 8.14.08