



GEOTECHNICAL BORING LOG

Prepared By: JM Date: 7-10-08

Checked By: JM 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-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft)								
BORING NO.: B-808		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA							
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,205 US ft (NAD83/90)		EASTING: 875,332 US ft (NAD83/90)		24 HR.	NA							
TOTAL DEPTH: 126.4 ft		BORING DIAMETER: 4" to 25.0', 3" to 126.4'		CASING DEPTH: 4" to 25.0', 3" to 117.8'		HAMMER (ID): 140 lb. Auto (893)								
DATE STARTED: 3/10/08		COMPLETED: 3/18/08		CORE SIZE: HQ3		BITS USED: 4" 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
-1.0	0.0				Ground Surface									
-1.0	0.0	WOH	WOH	WOH	0						808-1			MUCK, light gray (10YR7/2), to grayish brown (10YR5/2), very soft, moist to wet, strong HCl reaction
-3.8	2.8										808-2A&B			2.8ft: dark gray (10YR4/1)
-6.1	5.1	WOH	8	12							808-3			LIMESTONE, boundstone, pale yellow (5Y8/2), very soft, friable, wet, strong HCl reaction, fossiliferous (Miami Formation)
-8.5	7.5	10	7	6							808-4			5.1ft: oolitic
-11.0	10.0	2	2	2							808-5			8.0ft: loss of circulation
-13.0	12.0	10	40	27							808-6			10.0ft: hard
-16.0	15.0	7	9	15							808-7			12.0ft: soft
-20.6	19.6	19	21	50/0.5							808-8			15.0ft: hard
-25.1	24.1	6	6	5							808-9			19.6ft: white (5Y8/1), very soft
-26.0	25.0	50/0.1									RUN-1			25.0ft: LIMESTONE, boundstone, white (10YR8/1), hard to moderately hard, moderately indurated, fossiliferous, trace to little locally interconnected vugs, strong HCl reaction
-29.0	28.0										RUN-2			28.0ft: Switch sampling method to coring
-34.0	33.0										RUN-3			33.0ft: coralline, recrystallized calcite, few vugs
-39.0	38.0										RUN-4			38.0ft: hard, indurated, little vugs
-44.0	43.0										RUN-5			38.0ft: few vugs, trace coralline
-49.0	48.0										RUN-6			39.0ft: loss of circulation
-54.0	53.0										RUN-7			43.0ft: light gray (10YR7/1), to gray (10YR6/1)
-55.6	54.6										RUN-8			48.0ft: gray (10YR6/1), to 49.0ft
-59.0	58.0										RUN-9			LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
-64.0	63.0										RUN-10			53.0ft: white (10YR8/1), medium hard, moderately indurated
-69.0	68.0										RUN-11			54.6ft: little vugs, trace shell molds and casts
-74.0	73.0										RUN-12			58.0ft: few vugs
														63.0 to 73.0ft: possible interbedded sand layers; based on recovery and drilling rates
														73.0ft: trace vugs

TURKEY POINT COL BORE, TURKEY POINT.GPJ, 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-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft)								
BORING NO.: B-808		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA							
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,205 US ft (NAD83/90)		EASTING: 875,332 US ft (NAD83/90)		24 HR.	NA							
TOTAL DEPTH: 126.4 ft		BORING DIAMETER: 4" to 25.0', 3" to 126.4'		CASING DEPTH: 4" to 25.0', 3" to 117.8'		HAMMER (ID): 140 lb. Auto (893)								
DATE STARTED: 3/10/08		COMPLETED: 3/18/08		CORE SIZE: HQ3		BITS USED: 4" 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
-75.8					Continued from previous page									
-79.0	78.0													LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued) 78.0ft: hard, indurated, little vugs
-84.0	83.0													83.0ft: few vugs, few shell molds and casts
-89.0	88.0													88.0ft: moderately hard, moderately indurated, little vugs
-94.0	93.0													93.0ft: few vugs
-99.0	98.0													98.0ft: little vugs, few to little shell molds and casts
-104.0	103.0													103.0ft: some vugs
-109.0	108.0													108.0ft: little vugs
-114.0	113.0													113.0ft: few vugs
-119.0	118.0	4	8	11										POORLY GRADED SAND (SP), light gray (10YR7/1), medium dense, wet, trace shell fragments, strong HCl reaction, fine grained sand (Tamiami Formation) 118.0ft: Switch sampling method to SPT
-125.9	124.9	13	10	12										Silty SAND (SM), olive gray (10YR5/2), medium dense, wet, fine grained sand, trace shells, strong HCl reaction
														Boring Terminated at Elevation -127.4 ft

TURKEY POINT COL BORE TURKEY POINT.GPJ 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-550 Marsh Buggy		DRILLER: D. White/ R. Hall	
BORING NO.: B-808		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core	
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,205 US ft (NAD83/90)		EASTING: 875,332 US ft (NAD83/90)	
TOTAL DEPTH: 126.4 ft		CASING DEPTH: 4" to 25.0', 3" to 117.8'			HAMMER (ID): 140 lb. Auto (893)
DATE STARTED: 3/10/08		COMPLETED: 3/18/08		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 @ 25.0 ft
-26.0	25.0	3.0	1:45 1:46 1:52	(3.0) 100%	(1.6) 53%	RUN-1	(22.6) 94%	(18.2) 76%		LIMESTONE, boundstone, white (10YR8/1), hard to moderately hard, moderately indurated, fossiliferous, trace to little locally interconnected vugs, strong HCl reaction (Upper Fort Thompson Formation) (continued)
-29.0	28.0	5.0	1:58 1:03 0:51 1:03 1:01	(4.5) 90%	(3.8) 76%	RUN-2				25.0ft: Switch sampling method to coring 28.0ft: coralline, recrystallized calcite, few vugs
-34.0	33.0	5.0	1:10 1:05 0:45 0:58 1:14	(4.3) 86%	(3.0) 60%	RUN-3				33.0ft: hard, indurated, little vugs
-39.0	38.0	5.0	1:12 1:13 1:02 1:17 1:10	(4.9) 98%	(4.4) 88%	RUN-4				38.0ft: few vugs, trace coralline 39.0ft: loss of circulation
-44.0	43.0	5.0	1:14 1:04 1:27 1:20 1:45	(4.9) 98%	(4.4) 88%	RUN-5				43.0ft: light gray (10YR7/1), to gray (10YR6/1)
-49.0	48.0	5.0	1:12 1:25 2:05 0:58 1:00	(4.9) 98%	(4.8) 96%	RUN-6	(44.2) 67%	(27.7) 42%		48.0ft: gray (10YR6/1), to 49.0ft 49.0ft: LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
-54.0	53.0	1.6	1:39	(1.6) 100%	(0.5) 31%	RUN-7				53.0ft: white (10YR8/1), medium hard, moderately indurated
-55.6	54.6	3.4	3:18/0.6 0.43/0.4 0:51 0:41	(3.4) 100%	(2.4) 71%	RUN-8				54.6ft: little vugs, trace shell molds and casts
-59.0	58.0	5.0	1:01 1:46 1:41 1:25 1:06 1:21	(4.9) 98%	(4.5) 90%	RUN-9				58.0ft: few vugs
-64.0	63.0	5.0	0:25 0:36 0:21 0:11 0:09	(1.2) 24%	(0.0) 0%	RUN-10				63.0 to 73.0ft: possible interbedded sand layers; based on recovery and drilling rates
-69.0	68.0	5.0	0:29 1:01 0:23 1:52 0:54	(1.3) 26%	(0.4) 8%	RUN-11				73.0ft: trace vugs
-74.0	73.0	5.0	0:38 0:45 0:33 1:10 0:54	(2.4) 48%	(1.1) 22%	RUN-12				73.0ft: trace vugs
-79.0	78.0	5.0	1:00 0:51 0:38 1:26 2:43	(3.6) 72%	(1.9) 38%	RUN-13				78.0ft: hard, indurated, little vugs
-84.0	83.0	5.0	0:23 0:48 1:40 1:59 1:26	(4.3) 86%	(3.6) 72%	RUN-14				83.0ft: few vugs, few shell molds and casts
-89.0	88.0	5.0	0:40 0:56 0:46 1:08 0:39	(4.7) 94%	(3.7) 74%	RUN-15				88.0ft: moderately hard, moderately indurated, little vugs
-94.0	93.0	5.0	0:53 0:32 1:33 0:49 1:07	(2.0) 40%	(0.0) 0%	RUN-16				93.0ft: few vugs
-99.0	98.0	5.0	0:52 0:46	(3.2) (2.0)	(2.0)	RUN-17				98.0ft: little vugs, few to little shell molds and casts

TURKEY POINT COL CORE TURKEY POINT G/FJ TURKEY POINT COL GDI 7/10/08



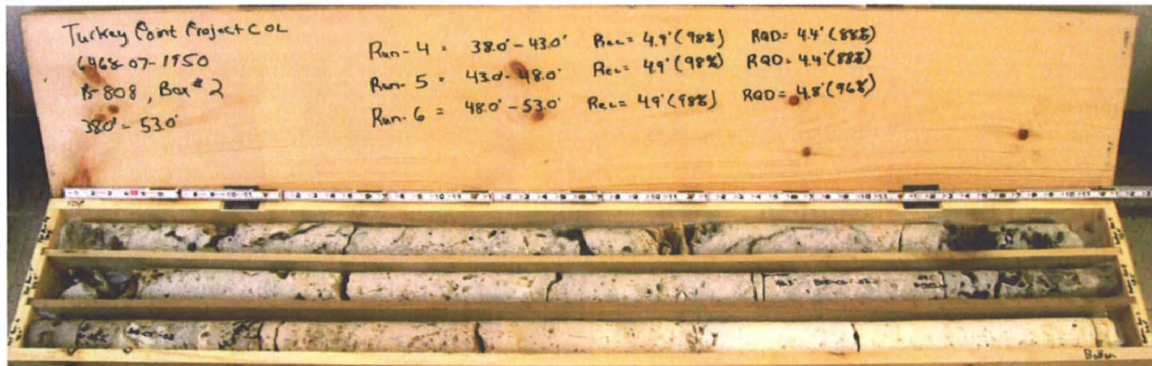
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: R. Clark	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-808		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.0 ft (NAVD88)		NORTHING: 396,205 US ft (NAD83/90)		EASTING: 875,332 US ft (NAD83/90)		
TOTAL DEPTH: 126.4 ft		CASING DEPTH: 4" to 25.0', 3" to 117.8'			HAMMER (ID): 140 lb. Auto (893)	
DATE STARTED: 3/10/08		COMPLETED: 3/18/08		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
-104.0	103.0		1:03 0:56 0:45	64%	40%					LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)
		5.0	0:37 0:39 0:36 0:46 0:38	(4.9) 98%	(3.3) 66%	RUN-18				103.0ft: some vugs
-109.0	108.0									
		5.0	0:29 0:21 0:19 1:20 0:40	(2.0) 40%	(0.5) 10%	RUN-19				108.0ft: little vugs
-114.0	113.0									113.0ft: few vugs
		5.0	0:14 1:37 0:56 0:13 0:27	(0.8) 16%	(0.0) 0%	RUN-20				
-119.0	118.0						(0.0) 0%	(NA)		-116.0 POORLY GRADED SAND (SP), light gray (10YR7/1), medium dense, wet, trace shell fragments, strong HCl reaction, fine grained sand (Tamiami Formation) -119.0
										Coring Terminated at Elevation -119.0

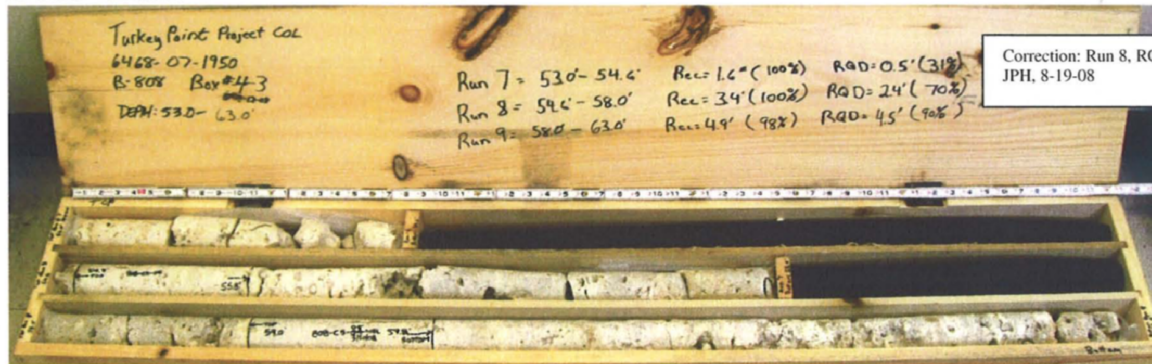
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7:10'08



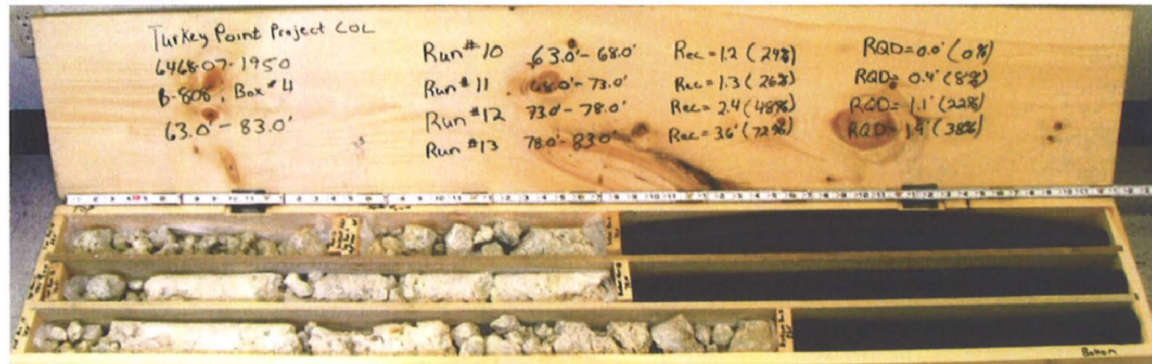
B-808 - Box 1



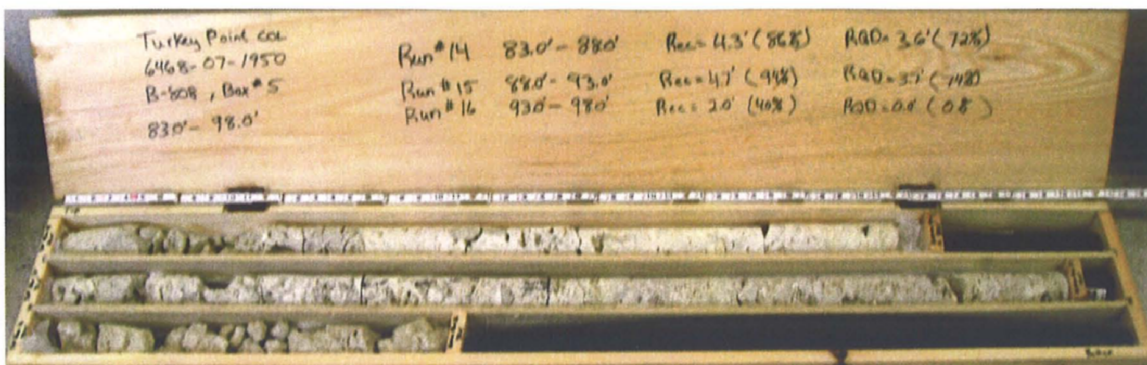
B-808 - Box 2



B-808 - Box 3



B-808 - Box 4



B-808 - Box 5



B-808 - Box 6



GEOTECHNICAL BORING LOG

Prepared By *[Signature]* Date *7-10-08*

Checked By *[Signature]* Date *7-10-08*

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: B. Taylor						
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft)						
BORING NO.: B-809		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA					
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 397,028 US ft (NAD83/90)		EASTING: 875,151 US ft (NAD83/90)		24 HR.	NA					
TOTAL DEPTH: 124.5 ft		BORING DIAMETER: 4" to 19.6', 3" to 124.5'		CASING DEPTH: 4" to 19.6', 3" to 119.0'		HAMMER (ID): 140 lb. Auto (893)						
DATE STARTED: 3/19/08		COMPLETED: 3/21/08		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			
-1.3	0.0	WOH	WOH	WOH	Ground Surface					809-1		MUCK, very dark gray (10YR3/1), very soft, moist, mostly organic, strong HCl reaction, trace shell fragments
-4.8	3.5				SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA					809-2		LIMESTONE, boundstone, white (10YR8/1), very soft, wet, strong HCl reaction, fossiliferous, oolitic (Miami Formation)
-7.3	6.0	8	11	7						809-3		6.0ft: very dark brown (10YR8/2), medium hard
-9.8	8.5	3	13	26						809-4		6.0ft: some loss of circulation
-12.3	11.0	4	5	5						809-5		8.5ft: white (10YR8/1), very soft, vugs
-14.8	13.5	13	26	27						809-6		11.0ft: moderately hard, fossiliferous
-20.5	19.2	48	26	29						809-7		
-20.9	19.6	50/0.2								RUN-1		19.2ft: hard
-24.3	23.0									RUN-2		19.6ft: Switch sampling method to coring
-29.3	28.0									RUN-3		19.6ft: indurated, trace vugs
-34.3	33.0									RUN-4		LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, coralline, little vugs, strong HCl reaction (Upper Fort Thompson Formation)
-39.3	38.0									RUN-5		30.0ft: loss of circulation
-44.3	43.0									RUN-6		33.0ft: locally interconnected vugs
-49.3	48.0									RUN-7		38.0ft: hard, indurated, recrystallized calcite
-54.3	53.0									RUN-8		43ft: light gray (10YR7/1) from 46.8ft to 48.4ft
-59.3	58.0									RUN-9		LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, few vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation)
-64.3	63.0									RUN-10		53.0ft: trace to few shell molds and casts
-69.3	68.0									RUN-11		63.0 to 68ft: possible interbedded sand layers, based on drilling rates and recovery
-74.3	73.0									RUN-12		68.0ft: some vugs
												73.0ft: little vugs

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



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade		GEOLOGIST: B. Taylor							
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft)							
BORING NO.: B-809		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		0 HR.	NA						
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 397,028 US ft (NAD83/90)		EASTING: 875,151 US ft (NAD83/90)		24 HR.	NA						
TOTAL DEPTH: 124.5 ft		BORING DIAMETER: 4" to 19.6', 3" to 124.5'		CASING DEPTH: 4" to 19.6', 3" to 119.0'		HAMMER (ID): 140 lb. Auto (893)							
DATE STARTED: 3/19/08		COMPLETED: 3/21/08		CORE SIZE: HQ3		BITS USED: 2 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				
-76.1					Continued from previous page								
-79.3	78.0										RUN-13		LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, few vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation) (continued)
-83.0	81.7												78.0ft: some vugs, little sand
-84.3	83.0										RUN-14		
											RUN-15		83.0ft: little vugs, trace to few shell molds and casts
-89.3	88.0												
											RUN-16		88.0ft: medium hard, friable, some vugs, little to some shell molds and casts
-94.3	93.0												
											RUN-17		93.0ft: moderately indurated, few vugs, little shell molds and casts
-99.3	98.0												
											RUN-18		98.0ft: some vugs, little to some shell molds and casts
-104.3	103.0												
											RUN-19		103.0ft: light gray (10YR7/2), moderately hard, moderately indurated, little vugs
-109.3	108.0												
											RUN-20		108.0ft: light greenish gray (10Y6/1) 109.6ft: possible interbedded sand layers
-114.3	113.0												
											RUN-21		-114.3
-124.3	123.0												Silty SAND (SM), light olive gray (5Y6/2), medium dense, wet, fine grained sand, strong HCl reaction, trace shell fragments (Tamiami Formation)
		9	10	17									
											809-B		123.0ft: Switch sampling method to SPT
													-125.8
													124.5
													Boring Terminated at Elevation -125.8 ft

TURKEY POINT COL BORE, TURKEY POINT GPJ, TURKEY POINT COL_GDT 7/10/08



BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: B. Taylor	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-809		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 397,028 US ft (NAD83/90)		EASTING: 875,151 US ft (NAD83/90)		
TOTAL DEPTH: 124.5 ft		CASING DEPTH: 4" to 19.6', 3" to 119.0'			HAMMER (ID): 140 lb. Auto (893)	
DATE STARTED: 3/19/08		COMPLETED: 3/21/08		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) %		
										Begin Coring @ 19.6 ft
-20.9	19.6	3.4	4:05 2:47 2:03	(3.4) 100%	(3.4) 100%	RUN-1	(5.4) 100%	(5.4) 100%		LIMESTONE, boundstone, white (10YR8/1), very soft, wet, strong HCl reaction, fossiliferous, oolitic (Miami Formation) (continued) 19.6ft: indurated, trace vugs
-24.3	23.0	5.0	0:53/0.4 2:16 1:57	(5.0) 100%	(4.9) 98%	RUN-2				
-29.3	28.0	5.0	1:05 1:13 0:55	(4.3) 86%	(2.4) 48%	RUN-3	(22.1) 94%	(19.1) 82%		-26.3 LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, coralline, little vugs, strong HCl reaction (Upper Fort Thompson Formation) 25.0 30.0ft: loss of circulation
-34.3	33.0	5.0	1:27 1:35 1:36 1:09 1:41	(4.8) 96%	(4.1) 82%	RUN-4				33.0ft: locally interconnected vugs
-39.3	38.0	5.0	2:11 2:06 1:17 1:26 2:37	(4.8) 96%	(4.6) 92%	RUN-5				38.0ft: hard, indurated, recrystallized calcite
-44.3	43.0	5.0	1:57 1:42 2:40 3:26 3:54	(4.8) 96%	(4.7) 94%	RUN-6				43ft: light gray (10YR7/1) from 46.8ft to 48.4ft
-49.3	48.0	5.0	2:14 1:43 1:14 1:58 1:45	(4.8) 98%	(4.7) 94%	RUN-7	(41.6) 64%	(26.7) 41%		-49.7 LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, few vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation) 48.4
-54.3	53.0	5.0	1:18 1:09 0:57 0:41 0:44	(4.4) 88%	(3.6) 72%	RUN-8				53.0ft: trace to few shell molds and casts
-59.3	58.0	5.0	1:19 0:41 0:33	(3.4) 68%	(2.1) 42%	RUN-9				63.0 to 68ft: possible interbedded sand layers; based on drilling rates and recovery
-64.3	63.0	5.0	1:04 1:05 0:46 1:02 2:03	(0.6) 12%	(0.0) 0%	RUN-10				68.0ft: some vugs
-69.3	68.0	5.0	0:16 0:50 0:04 0:11 0:31	(2.8) 56%	(1.0) 20%	RUN-11				73.0ft: little vugs
-74.3	73.0	5.0	1:14 0:45 0:59 0:43 0:50	(3.0) 60%	(0.5) 10%	RUN-12				78.0ft: some vugs, little sand
-79.3	78.0	3.7	1:13 1:00 1:15 1:43 2:21	(2.3) 62%	(1.0) 27%	RUN-13				83.0ft: little vugs, trace to few shell molds and casts
-83.0	81.7	1.3	1:06 1:55 0:23	(1.0) 77%	(0.0) 0%	RUN-14				
-84.3	83.0	5.0	0:49 0:36/0.3	(3.8) 76%	(2.2) 44%	RUN-15				88.0ft: medium hard, friable, some vugs, little to some shell molds and casts
-89.3	88.0	5.0	1:20 1:16 0:54 0:34 1:20	(3.1) 62%	(2.2) 44%	RUN-16				93.0ft: moderately indurated, few vugs, little shell molds and casts
-94.3	93.0	5.0	0:37 0:33 0:29 0:20 0:19 0:24	(2.5) 50%	(1.8) 36%	RUN-17				

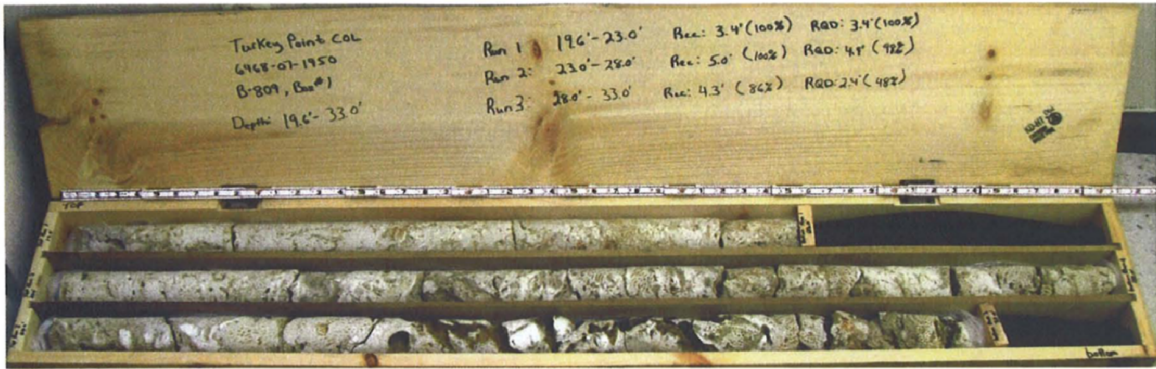
TURKEY POINT COL CORE, TURKEY POINT GFI, TURKEY POINT COL GDT 7/10/08



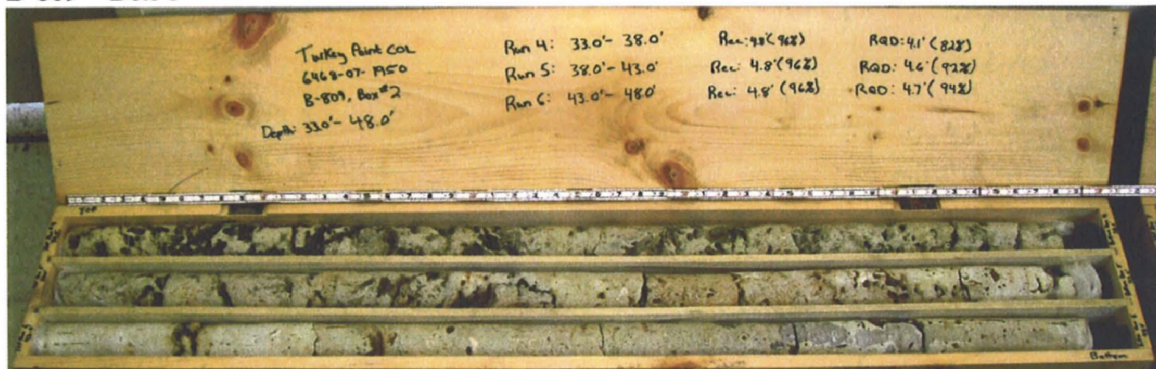
BECHTEL PROJECT NO.: 25409		MACTEC PROJECT NO.: 6468-07-1950		COUNTY: Miami-Dade	GEOLOGIST: B. Taylor	
SITE DESCRIPTION: Turkey Point COL		DRILL MACHINE: CME-550 Marsh Buggy		DRILLER: D. White/ R. Hall		GROUND WATER (ft) 0 HR. NA 24 HR. NA
BORING NO.: B-809		DRILL METHOD: Mud Rotary/ Core		SAMPLE METHODS: SPT/Core		
GROUND ELEV.: -1.3 ft (NAVD88)		NORTHING: 397,028 US ft (NAD83/90)		EASTING: 875,151 US ft (NAD83/90)		
TOTAL DEPTH: 124.5 ft		CASING DEPTH: 4" to 19.6', 3" to 119.0'			HAMMER (ID): 140 lb. Auto (893)	
DATE STARTED: 3/19/08		COMPLETED: 3/21/08		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. (%)	RQD (%)		REC. (%)	RQD (%)		
										Continued from previous page
-99.3	98.0		0.33 0.31 0.24 0.29	50%	36%					LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, few vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation) (continued)
		5.0	0.50 1.00 0.46 0.35 0.33	(4.4) 88%	(3.3) 66%	RUN-18				98.0ft: some vugs, little to some shell molds and casts
-104.3	103.0		0.39 0.34 0.21 0.26 0.12	(3.3) 66%	(2.5) 50%	RUN-19				103.0ft: light gray (10YR7/2), moderately hard, moderately indurated, little vugs
-109.3	108.0		0.31 0.40 1.01 0.31 0.44	(2.5) 50%	(2.2) 44%	RUN-20				108.0ft: light greenish gray (10Y6/1) 109.6ft: possible interbedded sand layers
-114.3	113.0		0.12 0.21 0.41 0.39 0.29	(2.3) 46%	(NA)	RUN-21	(2.3) 46%	(NA)		Silty SAND (SM), light olive gray (5Y6/2), medium dense, wet, fine grained sand, strong HCl reaction, trace shell fragments (Tamiami Formation)
-119.3	118.0									Coring Terminated at Elevation -119.3

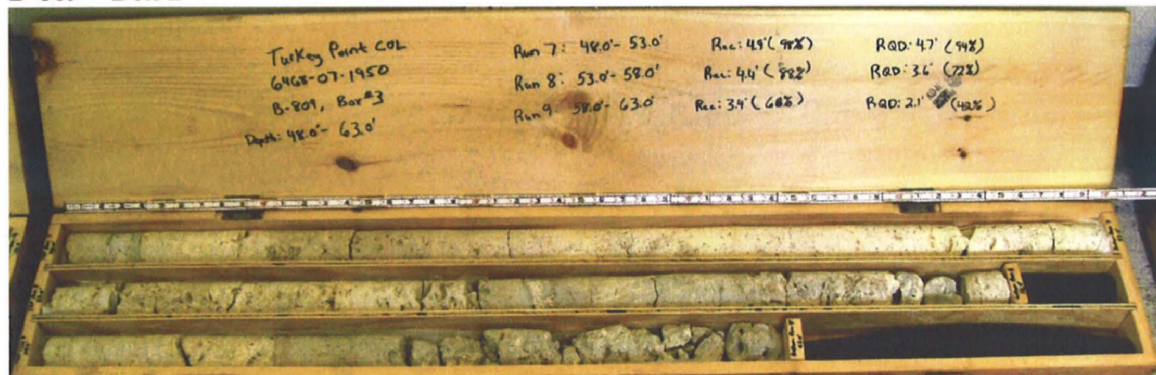
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7:10:08



B-809 - Box 1



B-809 - Box 2

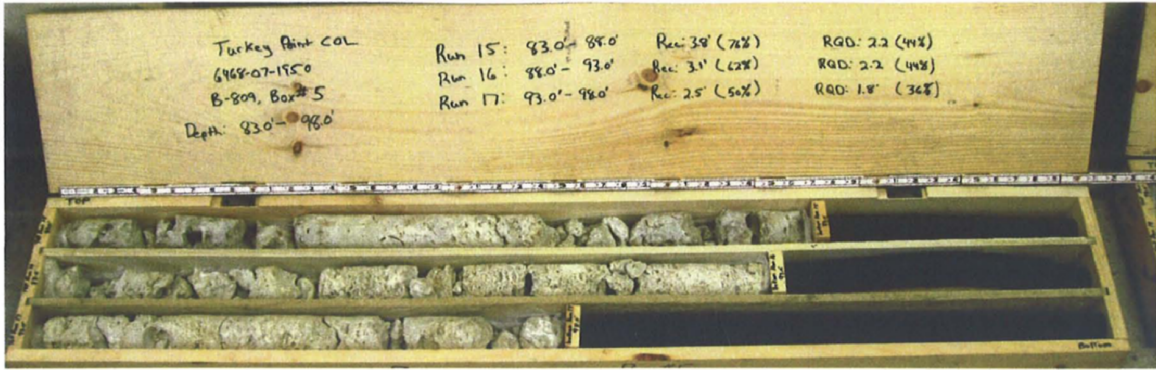


B-809 - Box 3

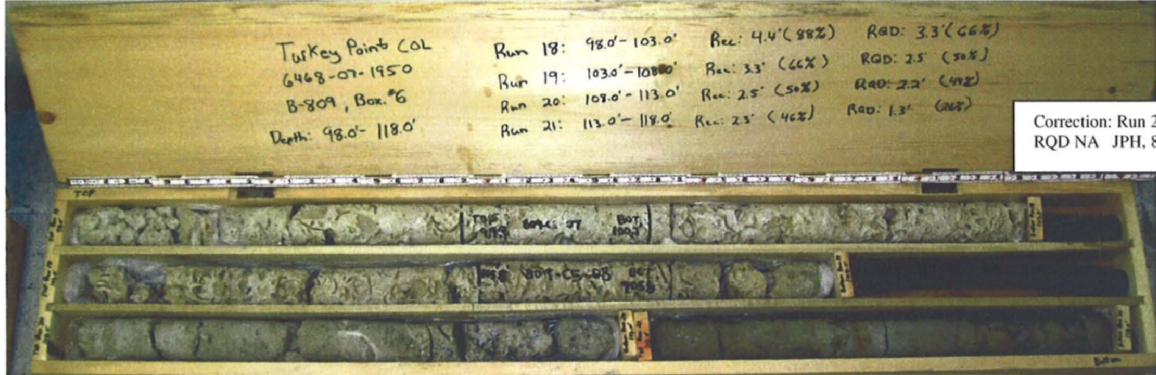


Corrections: Run 13, REC 2.3'(62%),
RQD 1.0'(27%)
Run 14, REC 1.0'(77%) JPH, 8-19-08

B-809 - Box 4



B-809 - Box 5



B-809 - Box 6