MACTEC

GEOTECHNICAL BORING LOG
Prepared By ____ Date 7-10-08
Checked By ____ 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 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	SOIL AND ROCK DESCRIPTION
-1.0					Ground Surface		-1.0 0.0
-1.0	0.0	WOH	WOH	WOH	0 WOH	808-1	MUCK, light gray (10YR7/2), to grayish brown (10YR5/2), very soft, moist to wet, strong HCl reaction
-3.8	2.8	WOH	8	12	20	808-2A&B	-4.4 3.4 2.8ft: dark gray (10YR4/1)
-6.1	5.1	10	7	6	13	808-3	LIMESTONE, boundstone, pale yellow (5Y8/2), very soft, friable, wet, strong HCl reaction, fossiliferous (Miami Formation) 5.1ft: oolitic
-8.5	7.5	2	2	2	4	808-4	8.0ft: loss of circulation
-11.0	10.0	10	40	27	67	808-5	10.0ft: hard
-13.0	12.0	7	9	15	24	808-6	12.0ft: soft
-16.0	15.0	19	21	50/0.5	71/1.0	808-7	15.0ft: hard
-20.6	19.6	6	6	5	11	808-8	19.6ft: white (5Y8/1), very soft
-25.1	24.1						-25.0 24.0
-26.0	25.0	50/0.1			50/0.1	808-9 RUN-1	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) 25.0ft: Switch sampling method to coring
-29.0	28.0					RUN-2	28.0ft: coralline, recrystallized calcite, few vugs
-34.0	33.0					RUN-3	33.0ft: hard, indurated, little vugs
-39.0	38.0					RUN-4	38.0ft: few vugs, trace coralline 39.0ft: loss of circulation
-44.0	43.0					RUN-5	43.0ft: light gray (10YR7/1), to gray (10YR6/1)
-49.0	48.0					RUN-6	-50.0 48.0ft: gray (10YR6/1), to 49.0ft 49.0 LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
-54.0	53.0					RUN-7	53.0ft: white (10YR8/1), medium hard, moderately indurated
-55.6	54.6					RUN-8	54.6ft: little vugs, trace shell molds and casts
-59.0	58.0					RUN-9	58.0ft: few vugs
-64.0	63.0					RUN-10	63.0 to 73.0ft: possible interbedded sand layers; based on recovery and drilling rates
-69.0	68.0					RUN-11	
-74.0	73.0					RUN-12	73.0ft: trace vugs

SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA

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

MACTEC

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 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-75.8					Continued from previous page				
									LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) *(continued)*
-79.0	78.0					RUN-13			78.0ft: hard, indurated, little vugs
-84.0	83.0					RUN-14			83.0ft: few vugs, few shell molds and casts
-89.0	88.0					RUN-15			88.0ft: moderately hard, moderately indurated, little vugs
-94.0	93.0					RUN-16			93.0ft: few vugs
-99.0	98.0					RUN-17			98.0ft: little vugs, few to little shell molds and casts
-104.0	103.0					RUN-18			103.0ft: some vugs
-109.0	108.0					RUN-19			108.0ft: little vugs
-114.0	113.0					RUN-20			113.0ft: few vugs
									-116.0 ... 115.0
									POORLY GRADED SAND (SP), light gray (10YR7/1), medium dense, wet, trace shell fragments, strong HCl reaction, fine grained sand (Tamiami Formation)
-119.0	118.0	4	8	11	19	808-10			118.0ft: Switch sampling method to SPT
									-123.0 ... 122.0
									Silty SAND (SM), olive gray (10YR5/2), medium dense, wet, fine grained sand, trace shells, strong HCl reaction
-125.9	124.9	13	10	12	22	808-11			-127.4 ... 126.4
									Boring Terminated at Elevation -127.4 ft

MACTEC

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	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 REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 25.0 ft
-26.0 -29.0	25.0 28.0	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)* 25.0ft: Switch sampling method to coring 28.0ft: coralline, recrystallized calcite, few vugs
-34.0	33.0	5.0	1:58 1:03 0:51 1:03 1:01	(4.5) 90%	(3.8) 76%	RUN-2				
-39.0	38.0	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
-44.0	43.0	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
-49.0	48.0	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)
-54.0	53.0	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%		-50.0 48.0ft: gray (10YR6/1), to 49.0ft 49.0 LIMESTONE, boundstone, white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
-55.6	54.6	1.6	1:39 3:18/0.6	(1.6) 100%	(0.5) 31%	RUN-7				53.0ft: white (10YR8/1), medium hard, moderately indurated
-59.0	58.0	3.4	0:43/0.4 0:51 0:41 1:01	(3.4) 100%	(2.4) 71%	RUN-8				54.6ft: little vugs, trace shell molds and casts
-64.0	63.0	5.0	1:46 1:41 1:25 1:06 1:21	(4.9) 98%	(4.5) 90%	RUN-9				58.0ft: few vugs
-69.0	68.0	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
-74.0	73.0	5.0	0:29 1:01 0:23 1:52 0:54	(1.3) 26%	(0.4) 8%	RUN-11				
-79.0	78.0	5.0	0:38 0:45 0:33 1:10 0:54	(2.4) 48%	(1.1) 22%	RUN-12				73.0ft: trace vugs
-84.0	83.0	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
-89.0	88.0	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
-94.0	93.0	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
-99.0	98.0	5.0	0:53 0:32 1:33 0:49 1:07	(2.0) 40%	(0.0) 0%	RUN-16				93.0ft: few vugs
		5.0	0:52 0:46	(3.2)	(2.0)	RUN-17				98.0ft: little vugs, few to little shell molds and casts

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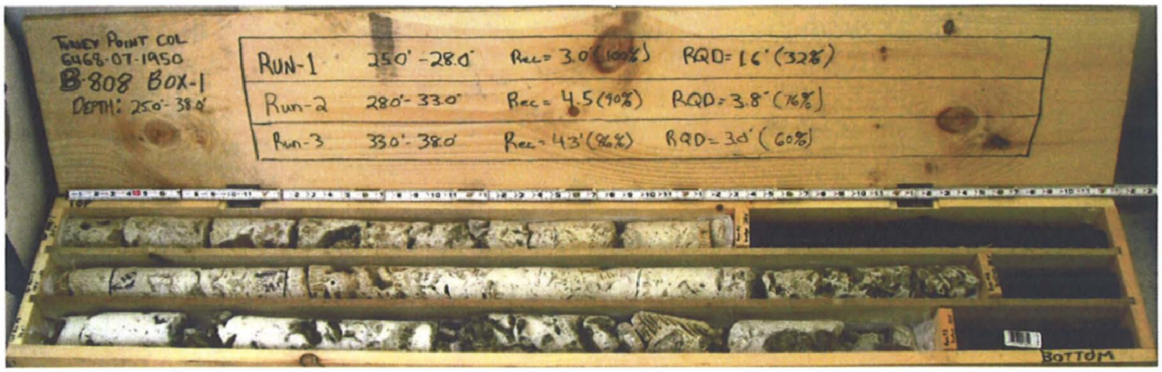
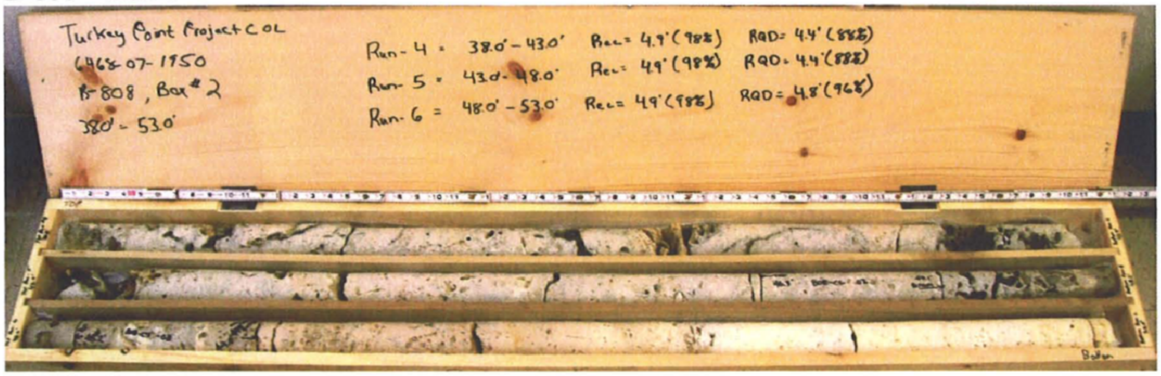
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 Marsh Buggy	DRILLER: D. White/ R. Hall	GROUND WATER (ft)
BORING NO.: B-808	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.0 ft (NAVD88)	NORTHING: 396,205 US ft (NAD83/90)	EASTING: 875,332 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 126.4 ft	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 REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										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)*
-109.0	108.0	5.0	0:37 0:39 0:36 0:46 0:38	(4.9) 98%	(3.3) 66%	RUN-18				103.0ft: some vugs
-114.0	113.0	5.0	0:29 0:21 0:19 1:20 0:40	(2.0) 40%	(0.5) 10%	RUN-19				108.0ft: little vugs 113.0ft: few vugs
-119.0	118.0	5.0	0:14 1:37 0:56 0:13 0:27	(0.8) 16%	(0.0) 0%	RUN-20	(0.0) 0%	(NA)		-116.0 — 115.0 POORLY GRADED SAND (SP), light gray (10YR7/1), medium dense, wet, trace shell fragments, strong HCl reaction, fine grained sand (Tamiami Formation) -119.0 — 118.0 Coring Terminated at Elevation -119.0

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



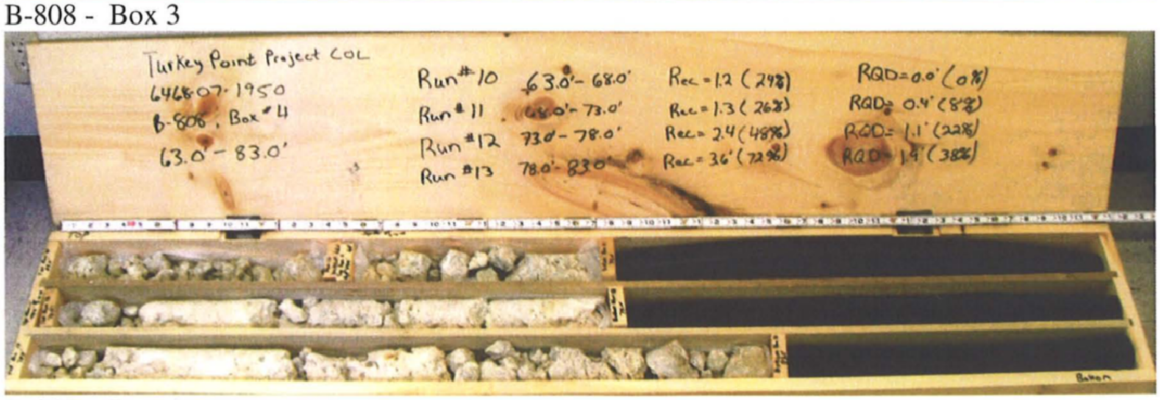
B-808 – Box 1



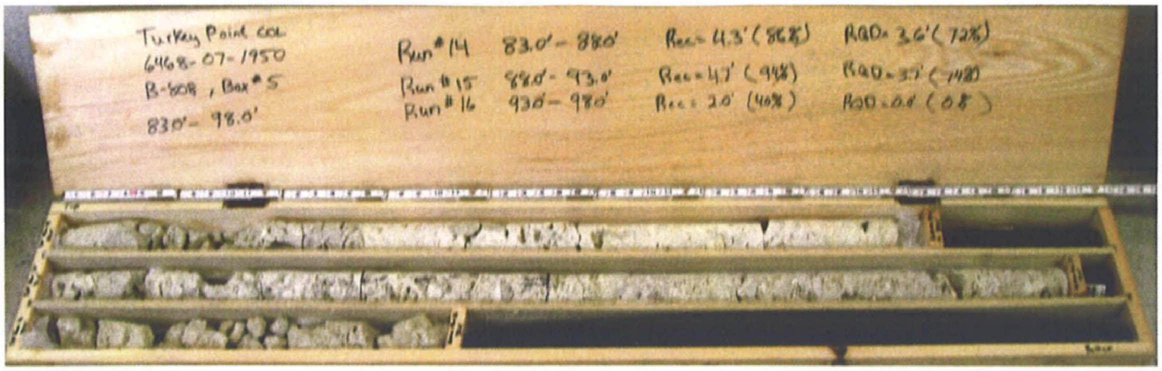
B-808 – Box 2

Correction: Run 8, RQD 2.4'(71%)
JPH, 8-19-08

B-808 - Box 3



B-808 - Box 4



B-808 – Box 5

B-808 – Box 6

MACTEC

GEOTECHNICAL BORING LOG

Prepared By ________ Date 7-10-08

Checked By ________ 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

SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	BLOW COUNT 0.5ft	BLOW COUNT 0.5ft	BLOWS PER FOOT (0–100)	SAMP. NO.	SOIL AND ROCK DESCRIPTION
-1.3					Ground Surface		
-1.3	0.0	WOH	WOH	WOH	0 (WOH)	809-1	-1.3 / 0.0 MUCK, very dark gray (10YR3/1), very soft, moist, mostly organic, strong HCl reaction, trace shell fragments
-4.8	3.5	8	11	7	18	809-2	-4.3 / 3.0 LIMESTONE, boundstone, white (10YR8/1), very soft, wet, strong HCl reaction, fossiliferous, oolitic (Miami Formation)
-7.3	6.0	3	13	26	39	809-3	6.0ft: very dark brown (10YR8/2), medium hard 6.0ft: some loss of circulation
-9.8	8.5	4	5	5	10	809-4	8.5ft: white (10YR8/1), very soft, vugs
-12.3	11.0	13	26	27	53	809-5	11.0ft: moderately hard, fossiliferous
-14.8	13.5	48	26	29	55	809-6	
-20.5	19.2	50/0.2			50/0.2	809-7	19.2ft: hard
-20.9	19.6					RUN-1	19.6ft: Switch sampling method to coring 19.6ft: indurated, trace vugs
-24.3	23.0					RUN-2	-26.3 / 25.0 LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, coralline, little vugs, strong HCl reaction (Upper Fort Thompson Formation)
-29.3	28.0					RUN-3	30.0ft: loss of circulation
-34.3	33.0					RUN-4	33.0ft: locally interconnected vugs
-39.3	38.0					RUN-5	38.0ft: hard, indurated, recrystallized calcite
-44.3	43.0					RUN-6	43ft: light gray (10YR7/1) from 46.8ft to 48.4ft
-49.3	48.0					RUN-7	-49.7 / 48.4 LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, few vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation)
-54.3	53.0					RUN-8	53.0ft: trace to few shell molds and casts
-59.3	58.0					RUN-9	
-64.3	63.0					RUN-10	63.0 to 68ft: possible interbedded sand layers; based on drilling rates and recovery
-69.3	68.0					RUN-11	68.0ft: some vugs
-74.3	73.0					RUN-12	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 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT (0–100)	SAMP. NO.	MOI	SOIL AND ROCK DESCRIPTION
-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)* 78.0ft: some vugs, little sand
-83.0	81.7					RUN-14		
-84.3	83.0					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 — 113.0 Silty SAND (SM), light olive gray (5Y6/2), medium dense, wet, fine grained sand, strong HCl reaction, trace shell fragments (Tamiami Formation)
-124.3	123.0	9	10	17	27	809-8		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

MACTEC

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	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 REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 19.6 ft
-20.9 -24.3	19.6 23.0	3.4	4:05 2:47 2:03 0:53/0.4	(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
-29.3	28.0	5.0	2:16 1:57 1:05 1:13 0:55	(5.0) 100%	(4.9) 98%	RUN-2	(22.1) 94%	(19.1) 82%		-26.3 25.0 LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, coralline, little vugs, strong HCl reaction (Upper Fort Thompson Formation)
-34.3	33.0	5.0	1:27 1:35 1:36 1:09 1:41	(4.3) 86%	(2.4) 48%	RUN-3				30.0ft: loss of circulation
-39.3	38.0	5.0	2:11 2:06 1:17 1:26 2:37	(4.8) 96%	(4.1) 82%	RUN-4				33.0ft: locally interconnected vugs
-44.3	43.0	5.0	1:57 1:42 2:40 3:26 3:54	(4.8) 96%	(4.6) 92%	RUN-5				38.0ft: hard, indurated, recrystallized calcite
-49.3	48.0	5.0	2:14 1:43 1:14 1:58 1:45	(4.8) 96%	(4.7) 94%	RUN -6				43ft: light gray (10YR7/1) from 46.8ft to 48.4ft
-54.3	53.0	5.0	1:18 1:09 0:57 0:41 0:44	(4.9) 98%	(4.7) 94%	RUN-7	(41.6) 64%	(26.7) 41%		-49.7 48.4 LIMESTONE, boundstone, white (10YR8/1), moderately hard, moderately indurated, fossiliferous, few vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation)
-59.3	58.0	5.0	0:44 1:02 1:19 0:41 0:33	(4.4) 88%	(3.6) 72%	RUN-8				53.0ft: trace to few shell molds and casts
-64.3	63.0	5.0	1:04 1:05 0:46 1:02 2:03	(3.4) 68%	(2.1) 42%	RUN-9				
-69.3	68.0	5.0	0:16 0:50 0:04 0:11 0:31	(0.6) 12%	(0.0) 0%	RUN-10				63.0 to 68ft: possible interbedded sand layers; based on drilling rates and recovery
-74.3	73.0	5.0	1:14 0:45 0:59 0:43 0:50	(2.8) 56%	(1.0) 20%	RUN-11				68.0ft: some vugs
-79.3	78.0	5.0	1:13 1:00 1:15 1:43 2:21	(3.0) 60%	(0.5) 10%	RUN-12				73.0ft: little vugs
-83.0	81.7	3.7	1:06 1:55 0:23 2:19/0.7	(2.3) 62%	(1.0) 27%	RUN-13				78.0ft: some vugs, little sand
-84.3	83.0	1.3	0:49 0:36/0.3	(1.0) 77%	(0.0) 0%	RUN-14				
-89.3	88.0	5.0	1:20 1:16 0:54 0:34 1:20	(3.8) 76%	(2.2) 44%	RUN-15				83.0ft: little vugs, trace to few shell molds and casts
-94.3	93.0	5.0	0:37 0:33 0:29 0:20 0:19	(3.1) 62%	(2.2) 44%	RUN-16				88.0ft: medium hard, friable, some vugs, little to some shell molds and casts
		5.0	0:24	(2.5)	(1.8)	RUN-17				93.0ft: moderately indurated, few vugs, little shell molds and casts

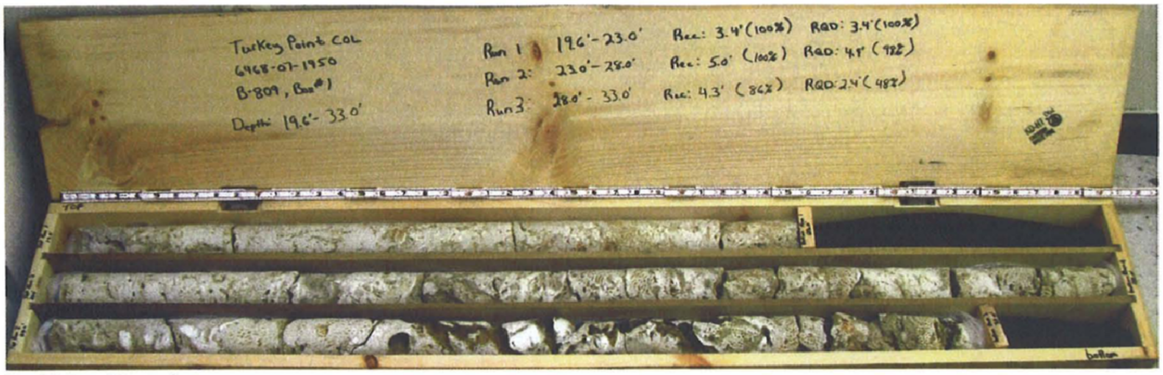
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 7/10/08

MACTEC

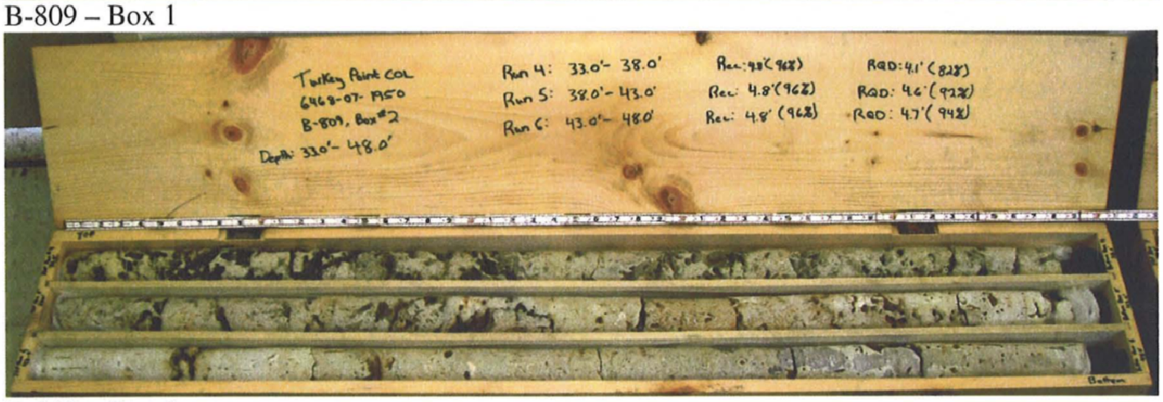
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: B. Taylor
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 Marsh Buggy	DRILLER: D. White/ R. Hall	GROUND WATER (ft)
BORING NO.: B-809	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND 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	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 REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										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)*
-104.3	103.0	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
-109.3	108.0	5.0	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
-114.3	113.0	5.0	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
-119.3	118.0	5.0	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

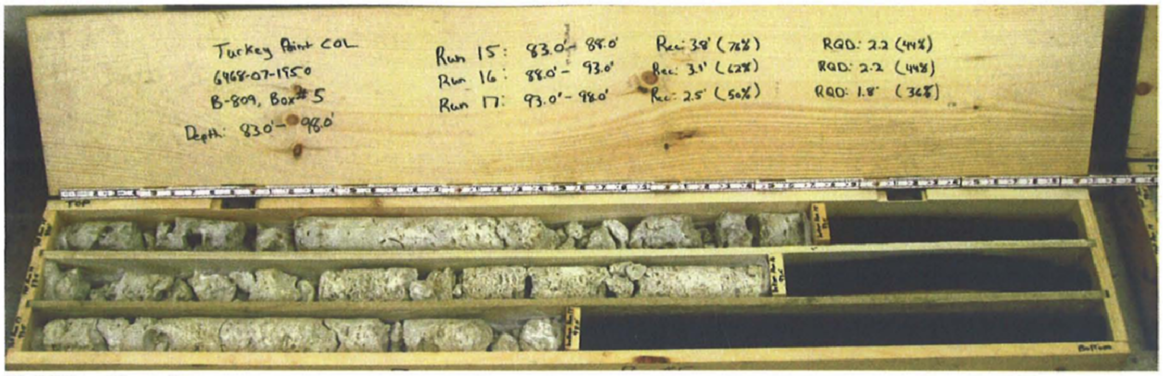


B-809 – Box 2

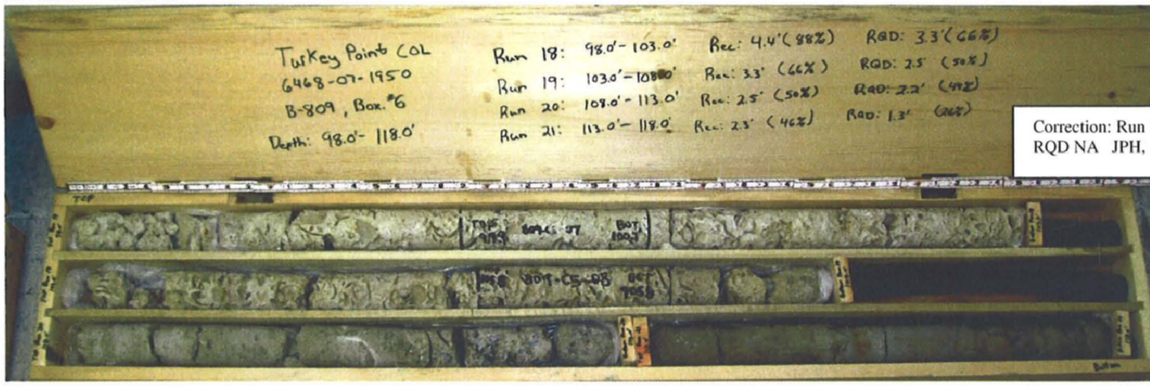
B-809 - Box 3

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



Correction: Run 21,
RQD NA JPH, 8-19-08

B-809 – Box 6