MACTEC

GEOTECHNICAL BORING LOG

Prepared By: [illegible] Date: 8-19-08

Checked By: [illegible] Date: 8/19/08

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-628	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,073 US ft (NAD83/90)	EASTING: 876,473 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 127.9 ft	BORING DIAMETER: 4" to 36.0', 3" to 127.9'	CASING DEPTH: 4" to 36.0', 3" to 118.0'	HAMMER (ID):140 lb. Auto (07)
DATE STARTED: 2/19/08	COMPLETED: 2/21/08	CORE SIZE: HQ3	BITS USED: 2 15/16" & 3 7/8" Tricones

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-1.5					Ground Surface				
-1.5	0.0	WOH	WOH	WOH	WOH 0	628-1			-1.5 0.0 MUCK, light brownish gray (10YR6/2), very soft to soft, wet, strong HCl reaction, mostly organic, shells fragments
-4.3	2.8	WOH	4	8	12	628-2A&B			-5.3 3.8 LIMESTONE, boundstone, pale yellow (5Y8/3), very soft, wet, strong HCl reaction, fossiliferous (Miami Formation)
-6.8	5.3	10	9	7	16	628-3			
-9.3	7.8	5	10	2	12	628-4			7.8ft: friable, with clasts or infilled voids
-11.7	10.2	6	5	23	28	628-5			10.2ft: soft
-14.2	12.7	19	24	10	34	628-6			12.7ft: medium hard
-16.6	15.1	15	19	17	36	628-7			
-19.8	18.3	2	2	3	5	628-8			18.3ft: very soft
-24.8	23.3	4	12	20	32	628-9			-25.5 24.0 LIMESTONE, boundstone, pale yellow (5Y8/2), medium hard, wet, friable, porous, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)
-29.5	28.0	17	13	28	41	628-10			
-34.5	33.0	10	20	50/0.2	70/0.7	628-11			33.0ft: hard, coralline
-37.5	36.0					RUN-1			36.0ft: Switch sampling method to coring 36.0ft: white (2.5Y8/1), hard, indurated, fossiliferous, little vugs lined with recrystallized calcite, strong HCl reaction
-42.5	41.0					RUN-2			39.0ft: loss of circulation 41.0ft: pale yellow (5Y8/3)
-47.5	46.0					RUN-3			46.0ft: pale yellow (5Y8/3) to 46.4ft then light gray (N7/) to 48.4ft
-52.5	51.0					RUN-4			-49.9 48.4 LIMESTONE, boundstone, white (5Y8/1), hard, indurated, porous, few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
-57.5	56.0					RUN-5			56.0ft: moderately hard, moderately indurated, trace sand lenses
-62.5	61.0					RUN-6			61.0ft: medium to moderately hard, friable to moderately indurated, few shell molds
-67.5	66.0					RUN-7			66.0ft: moderately indurated to indurated
-72.5	71.0					RUN-8			

SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA

TURKEY POINT COL BORE: TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/18/08

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-750 (Miller)	DRILLER: G.Bilbrey/P.McKorkle/J.Tucker	GROUND WATER (ft)	
BORING NO.: B-628	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR.	NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,073 US ft (NAD83/90)	EASTING: 876,473 US ft (NAD83/90)	24 HR.	NA
TOTAL DEPTH: 127.9 ft	BORING DIAMETER: 4" to 36.0', 3" to 127.9'	CASING DEPTH: 4" to 36.0', 3" to 118.0'	HAMMER (ID):140 lb. Auto (07)	
DATE STARTED: 2/19/08	COMPLETED: 2/21/08	CORE SIZE: HQ3	BITS USED: 2 15/16" & 3 7/8" Tricones	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-76.3					Continued from previous page				
-77.5	76.0					RUN-9			LIMESTONE, boundstone, white (5Y8/1), hard, indurated, porous, few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) *(continued)* 75.0ft: some circulation returned
-82.5	81.0					RUN-10			81.0ft: moderately hard to hard, moderately indurated to indurated, little vugs
-87.5	86.0					RUN-11			86.0ft: fine to medium grained calcareous sand lenses
-92.5	91.0					RUN-12			91.0ft: medium hard, friable to moderately indurated, some vugs filled with calcareous medium grained sand
-97.5	96.0					RUN-13			96.0ft: moderately hard, indurated
-102.5	101.0					RUN-1			101ft. hard, indurated, shell molds and casts
-107.5	106.0					RUN-15			
-112.5	111.0					RUN-16			
-117.5	116.0								-117.7 116.2
-122.9	121.4	7	7	4	11	628-12			116.0ft: Switch sampling method to SPT Silty SAND (SM), light greenish gray (10YR8/1), medium dense, wet, strong HCl reaction, fine grained sand
-127.9	126.4	5	5	6	11	628-13			
		3	2	3	5	628-14			-129.4 126.4ft: loose 127.9 Boring Terminated at Elevation -129.4 ft

TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/18/08

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-750 (Miller)	DRILLER: G.Bilbrey/P.McKorkle/J.Tucker	GROUND WATER (ft)
BORING NO.: B-628	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,073 US ft (NAD83/90)	EASTING: 876,473 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 127.9 ft	CASING DEPTH: 4" to 36.0', 3" to 118.0'	HAMMER (ID): 140 lb. Auto (07)	
DATE STARTED: 2/19/08	COMPLETED: 2/21/08	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 @ 36.0 ft
-37.5	36.0	5.0	1:06 0:43 1:28 1:26	(5.0) 100%	(4.5) 90%	RUN-1	(12.4) 100%	(11.9) 96%		LIMESTONE, boundstone, pale yellow (5Y8/2), medium hard, wet, friable, porous, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) *(continued)* 36.0ft: white (2.5Y8/1), hard, indurated, fossiliferous, little vugs lined with recrystallized calcite, strong HCl reaction
-42.5	41.0		2:07							
		5.0	2:02 1:16 1:56 1:36	(5.0) 100%	(5.0) 100%	RUN-2				39.0ft: loss of circulation 41.0ft: pale yellow (5Y8/3)
-47.5	46.0		1:33							
		5.0	1:14 2:11 3:05 3:36	(5.0) 100%	(5.0) 100%	RUN-3				46.0ft: pale yellow (5Y8/3) to 46.4ft then light gray (N7/) to 48.4ft
-49.9										48.4
-52.5	51.0		3:26				(44.8) 66%	(32.7) 48%		LIMESTONE, boundstone, white (5Y8/1), hard, indurated, porous, few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)
		5.0	2:02 1:33 2:36 2:14	(5.0) 100%	(5.0) 100%	RUN-4				
-57.5	56.0		1:28							
		5.0	2:21 2:33 1:05 0:45	(4.6) 92%	(4.2) 84%	RUN-5				56.0ft: moderately hard, moderately indurated, trace sand lenses
-62.5	61.0		2:05							
		5.0	1:14 1:22 1:05 0:52	(3.2) 64%	(2.3) 46%	RUN-6				61.0ft: medium to moderately hard, friable to moderately indurated, few shell molds
-67.5	66.0		0:29							
		5.0	1:20 0:33 0:21 0:33	(2.8) 56%	(1.2) 24%	RUN-7				66.0ft: moderately indurated to indurated
-72.5	71.0		1:40							
		5.0	0:52 0:51 1:02 0:33	(3.1) 62%	(1.4) 28%	RUN-8				
-77.5	76.0		1:33							75.0ft: some circulation returned
		5.0	0:29 0:22 1:45 2:13	(1.1) 22%	(0.4) 8%	RUN-9				
-82.5	81.0		2:02							81.0ft: moderately hard to hard, moderately indurated to indurated, little vugs
		5.0	0:58 0:51 2:24 0:22	(2.6) 52%	(0.9) 18%	RUN-10				
-87.5	86.0		0:03							86.0ft: fine to medium grained calcareous sand lenses
		5.0	0:01 0:40 0:46 1:01	(2.2) 44%	(1.1) 22%	RUN-11				
-92.5	91.0		2:25							91.0ft: medium hard, friable to moderately indurated, some vugs filled with calcareous medium grained sand
		5.0	0:52 0:32 1:31 0:44	(4.2) 84%	(3.0) 60%	RUN-12				
-97.5	96.0		1:11							96.0ft: moderately hard, indurated
		5.0	1:02 1:01 0:55 1:05	(2.7) 54%	(1.8) 36%	RUN-13				
-102.5	101.0		1:09							101ft: hard, indurated, shell molds and casts
		5.0	0:41 0:36 0:53 0:39	(4.2) 84%	(3.4) 68%	RUN-14				
-107.5	106.0		0:54							
		5.0	0:45 0:52 0:35 0:36	(5.0) 100%	(4.8) 96%	RUN-15				
-112.5	111.0		0:54							

TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/18/08

MACTEC

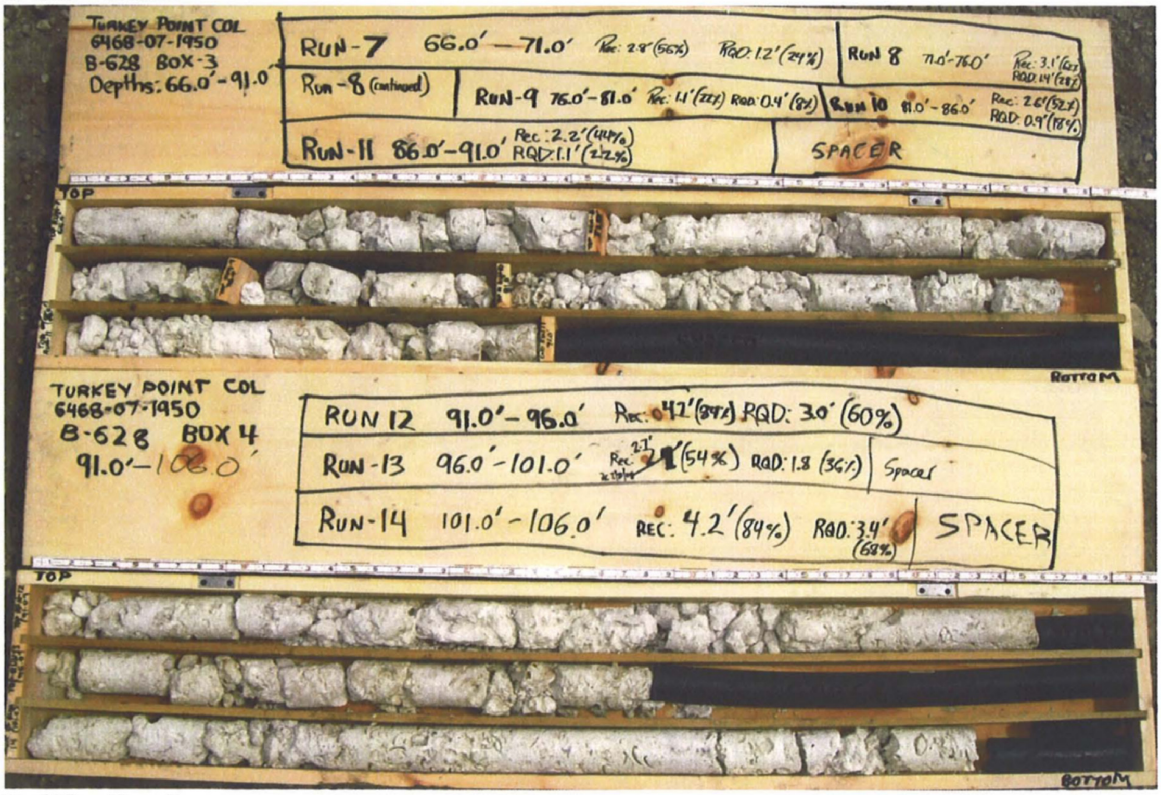
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: R. Clark
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-750 (Miller)	DRILLER: G.Bilbrey/P.McKorkle/J.Tucker	GROUND WATER (ft)
BORING NO.: B-628	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 397,073 US ft (NAD83/90)	EASTING: 876,473 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 127.9 ft	CASING DEPTH: 4" to 36.0', 3" to 118.0'		HAMMER (ID): 140 lb. Auto (07)
DATE STARTED: 2/19/08	COMPLETED: 2/21/08	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
-117.5	116.0	5.0	0:26 0:15 0:28 0:24 0:48	(1.5) 30%	(0.6) 12%	RUN-16				LIMESTONE, boundstone, white (5Y8/1), hard, indurated, porous, few vugs, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) *(continued)* -117.5 116.0 Coring Terminated at Elevation -117.5

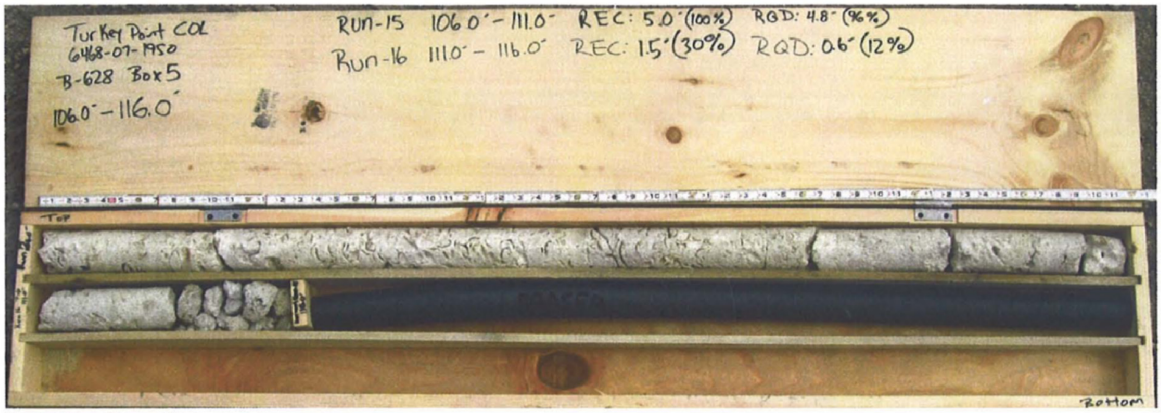
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 8/18/08



B-628 – Box 1
B-628 – Box 2



B-628 – Box 3
B-628 – Box 4


Turkey Point COL
6468-07-1950
B-628 Box 5
106.0' - 116.0'
RUN-15 106.0' - 111.0' REC: 5.0' (100%) RQD: 4.8' (96%)
Run-16 111.0' - 116.0' REC: 1.5' (30%) RQD: 0.6' (12%)
Top
Bottom

B-628 – Box 5

MACTEC

GEOTECHNICAL BORING LOG

Prepared By [illegible] Date 5-30-08

Checked By [illegible] Date 5-30-08

SHEET 1 OF 2

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: L. Bisson
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (ATL)	DRILLER: L. Carter/ J. Landeros	GROUND WATER (ft)
BORING NO.: B-629	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA
GROUND ELEV.: -1.1 ft (NAVD88)	NORTHING: 396,972 US ft (NAD83/90)	EASTING: 876,346 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 100.3 ft	BORING DIAMETER: 4" to 35.0', 3" to 100.3'	CASING DEPTH: 4" to 35.0'	HAMMER (ID):140 lb. Auto (MEC-03)
DATE STARTED: 4/6/08	COMPLETED: 4/7/08	CORE SIZE: HQ3	BITS USED: 4" Roller Cone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-1.1					Ground Surface				
-1.1	0.0	WOR	WOR	WOR	WOR	629-1			MUCK, brown (10YR5/3), very soft, wet, organics, trace shell fragments, strong HCl reaction
-3.6	2.5	WOR	2	4	6	629-2A/B			2.5ft: black (10YR2/1)
-6.1	5.0	4	5	6	11	629-3			LIMESTONE, boundstone, pale yellow (2.5Y8/3), very soft, sandy, strong HCl reaction (Miami Formation)
-8.6	7.5	5	6	5	11	629-4			5.0ft: fossiliferous, oolitic
-11.1	10.0	4	4	2	6	629-5			7.5ft: pale yellow (2.5Y8/2), to light gray (2.5Y7/1)
-13.6	12.5	4	14	9	23	629-6			12.5ft: white (2.5Y8/1), to light gray (2.5Y7/1), soft
-16.1	15.0	6	15	12	27	629-7			
-20.5	19.4	4	3	2	5	629-8			19.4ft: white (10YR8/1), very soft
-25.5	24.4	3	7	4	11	629-9			
-30.5	29.4	12	21	15	36	629-10			LIMESTONE, boundstone, white (2.5Y8/1), medium hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation)
-35.5	34.4								32.0ft: loss of circulation
-35.8	34.7	50/0.3			50/0.3	629-11			34.4ft: hard
						RUN-1			34.7ft: Switch sampling method to coring
-39.4	38.3								34.7ft: white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, trace vugs
-44.4	43.3					RUN-2			38.3ft: recrystallized calcite, coralline
-48.1	47.0					RUN-3			43.3ft: white (10YR8/1) to 46.3ft then gray (10YR6/1), few vugs
-49.4	48.3					RUN-4			47.0ft: gray (10Y6/1) to 48.3ft
-54.4	53.3					RUN-5			LIMESTONE, boundstone, white (10YR8/1), medium hard to hard, indurated, fossiliferous, trace vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation)
-59.4	58.3					RUN-6			53.3ft: white (2.5Y8/1), medium hard, moderately indurated, little sand, few to little shell molds
-64.4	63.3					RUN-7			58.3ft: white (10YR8/1), soft to medium hard, moderately indurated
-69.4	68.3					RUN-8			63.3ft: moderately indurated to indurated
-74.4	73.3					RUN-9			
						RUN-10			73.3ft: white (2.5Y8/1), to light gray (2.5Y7/1)

-4.6 2.5ft: black (10YR2/1) 3.5

-28.1 LIMESTONE, boundstone, white (2.5Y8/1), medium hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) 27.0

-49.4 LIMESTONE, boundstone, white (10YR8/1), medium hard to hard, indurated, fossiliferous, trace vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation) 48.3

SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA

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

MACTEC

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: L. Bisson	
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (ATL)	DRILLER: L. Carter/ J. Landeros	GROUND WATER (ft)	
BORING NO.: B-629	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA	
GROUND ELEV.: -1.1 ft (NAVD88)	NORTHING: 396,972 US ft (NAD83/90)	EASTING: 876,346 US ft (NAD83/90)	24 HR. NA	
TOTAL DEPTH: 100.3 ft	BORING DIAMETER: 4" to 35.0', 3" to 100.3'	CASING DEPTH: 4" to 35.0'	HAMMER (ID):140 lb. Auto (MEC-03)	
DATE STARTED: 4/6/08	COMPLETED: 4/7/08	CORE SIZE: HQ3	BITS USED: 4" Roller Cone	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-75.9					Continued from previous page				
-79.4	78.3					RUN-11			LIMESTONE, boundstone, white (10YR8/1), medium hard to hard, indurated, fossiliferous, trace vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation) *(continued)*
-84.4	83.3					RUN-12			78.3ft: medium hard to moderately hard, moderately indurated to indurated, trace shell molds 83.3ft: white (2.5Y8/1), hard, indurated, few shell molds and casts
-89.4	88.3					RUN-13			88.3ft: white (10YR8/1), moderately hard
-94.4	93.3					RUN-14			93.3ft: soft to medium hard, moderately indurated,
-99.4	98.3					RUN-15			98.3ft: medium hard to hard
-101.4	100.3								Boring Terminated at Elevation -101.4 ft

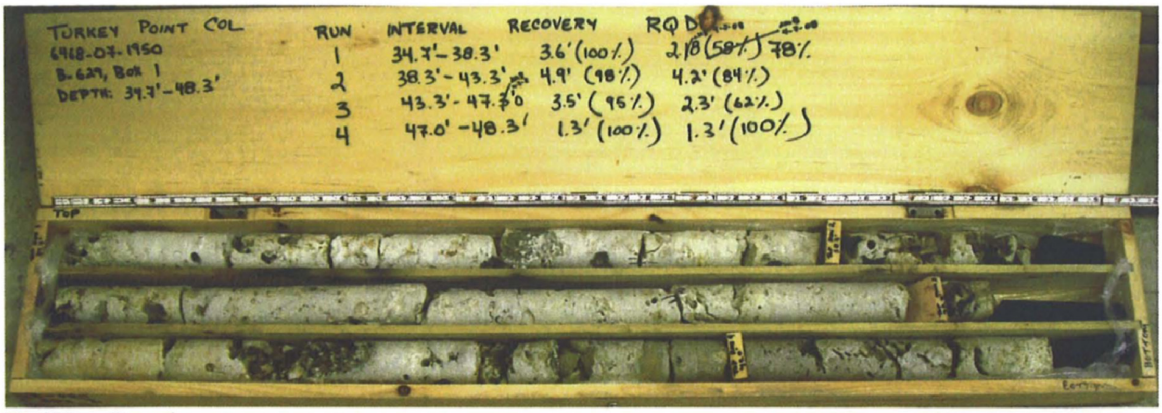
TURKEY POINT COL BORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08

MACTEC

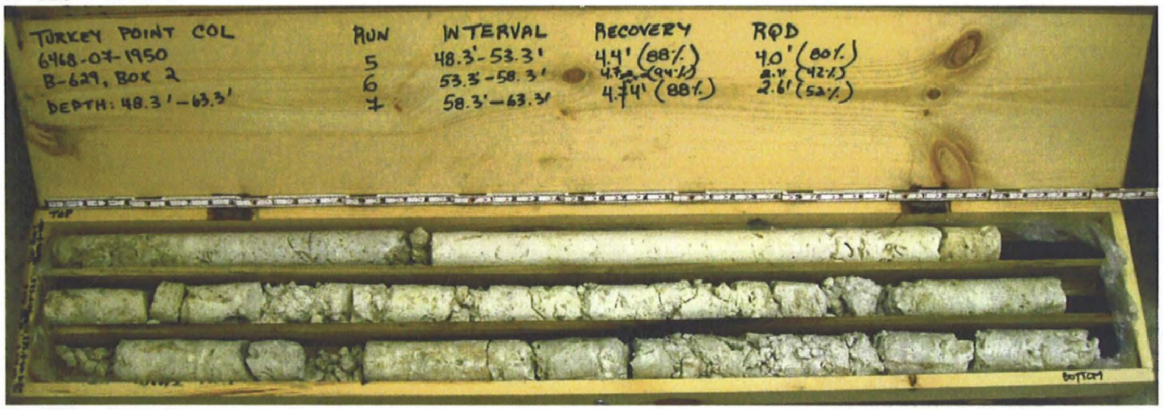
BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: L. Bisson	
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550 (ATL)	DRILLER: L. Carter/ J. Landeros	GROUND WATER (ft)	
BORING NO.: B-629	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR. NA	
GROUND ELEV.: -1.1 ft (NAVD88)	NORTHING: 396,972 US ft (NAD83/90)	EASTING: 876,346 US ft (NAD83/90)	24 HR. NA	
TOTAL DEPTH: 100.3 ft	CASING DEPTH: 4" to 35.0'	HAMMER (ID): 140 lb. Auto (MEC-03)		
DATE STARTED: 4/6/08	COMPLETED: 4/7/08	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 @ 34.7 ft
-35.8	34.7	3.6	1:25 1:30 1:16 0:52/0.6	(3.6) 100%	(2.8) 78%	RUN-1	(13.3) 98%	(10.6) 78%		LIMESTONE, boundstone, white (2.5Y8/1), medium hard, wet, fossiliferous, strong HCl reaction (Upper Fort Thompson Formation) *(continued)* 34.7ft: white (10YR8/1), hard, indurated, fossiliferous, strong HCl reaction, trace vugs
-39.4	38.3	5.0	0:56 1:06 1:09 1:07 0:57	(4.9) 98%	(4.2) 84%	RUN-2				38.3ft: recrystallized calcite, coralline
-44.4	43.3	3.7	1:05 1:02 1:04 1:27/0.7	(3.5) 95%	(2.3) 62%	RUN-3				43.3ft: white (10YR8/1) to 46.3ft then gray (10YR6/1), few vugs
-48.1	47.0									
-49.4	48.3	1.3	0:17/0.3	(1.3) 100%	(1.3) 100%	RUN-4				-49.4 47.0ft: gray (10Y6/1) to 48.3ft 48.3
-54.4	53.3	5.0	1:41 1:11 0:52 1:48 1:07 0:52	(4.4) 88%	(4.0) 80%	RUN-5	(43.5) 84%	(23.2) 45%		LIMESTONE, boundstone, white (10YR8/1), medium hard to hard, indurated, fossiliferous, trace vugs, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation)
-59.4	58.3	5.0	0:22 0:16 0:11 0:17 0:36	(4.7) 94%	(2.1) 42%	RUN-6				53.3ft: white (2.5Y8/1), medium hard, moderately indurated, little sand, few to little shell molds
-64.4	63.3	5.0	0:30 1:24 0:59 1:00 1:11	(4.4) 88%	(2.6) 52%	RUN-7				58.3ft: white (10YR8/1), soft to medium hard, moderately indurated
-69.4	68.3	5.0	0:12 0:21 0:31 0:52 0:43	(2.8) 56%	(0.6) 12%	RUN-8				63.3ft: moderately indurated to indurated
-74.4	73.3	5.0	0:38 2:01 0:59 2:06 1:37	(4.2) 84%	(1.6) 32%	RUN-9				
-79.4	78.3	5.0	1:26 1:39 0:32 0:27 1:35	(3.3) 66%	(1.5) 30%	RUN-10				73.3ft: white (2.5Y8/1), to light gray (2.5Y7/1)
-84.4	83.3	5.0	1:10 1:46 1:19 0:51 0:53	(5.0) 100%	(2.7) 54%	RUN-11				78.3ft: medium hard to moderately hard, moderately indurated to indurated, trace shell molds
-89.4	88.3	5.0	0:55 0:54 0:20 0:47 1:15	(4.5) 90%	(1.5) 30%	RUN-12				83.3ft: white (2.5Y8/1), hard, indurated, few shell molds and casts
-94.4	93.3	5.0	1:35 1:55 1:50 0:56 0:61	(5.0) 100%	(3.5) 70%	RUN-13				88.3ft: white (10YR8/1), moderately hard
-99.4	98.3	5.0	1:17 0:37 0:19 0:27 0:08	(3.2) 64%	(1.4) 28%	RUN-14				93.3ft: soft to medium hard, moderately indurated,
-101.4	100.3	2.0	0:20 0:33	(2.0) 100%	(1.7) 85%	RUN-15				98.3ft: medium hard to hard -101.4 100.3 Coring Terminated at Elevation -101.4

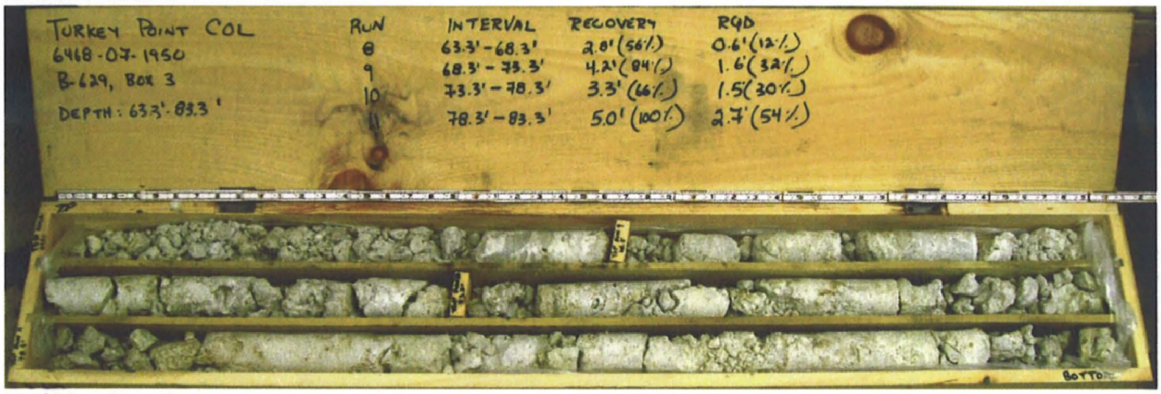
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



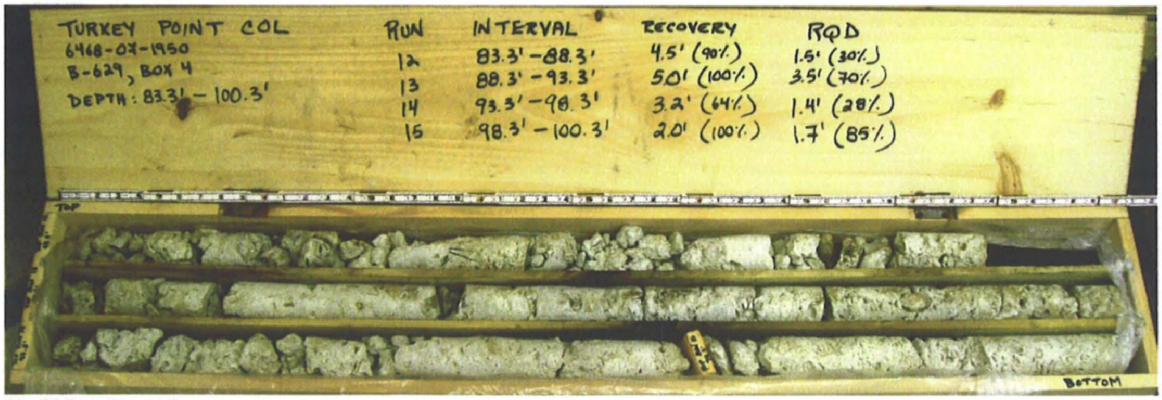
B-629 – Box 1



B-629 – Box 2



B-629 – Box 3



B-629 – Box 4

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPH Date 8-19-08

Checked By SSL Date 8/19/08

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Woodham
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550X (ATL)	DRILLER: R. Landeros/ N. Rodriguez	GROUND WATER (ft)
BORING NO.: B-630	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core/UD	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 396,872 US ft (NAD83/90)	EASTING: 876,462 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 294.0 ft	BORING DIAMETER: 6" to 108.8', 5" to 294.0'	CASING DEPTH: 4" to 26.0', 6" to 108.8'	HAMMER (ID):140 lb. Auto (MEC-05)
DATE STARTED: 4/9/08	COMPLETED: 4/29/08	CORE SIZE: HQ3	BITS USED: 4 7/8" & 3 7/8" Roller Cones

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO	MOI	LOG	SOIL AND ROCK DESCRIPTION
-1.5					Ground Surface				
-1.5	0.0	WOR	WOR	WOR	WOR	630-1			MUCK; no recovery
-4.7	3.2	8	11	9	20	630-2			-4.5 3.0 LIMESTONE, boundstone, pale yellow (5Y8/2), very soft, wet, strong HCl reaction, few fines, oolitic (Miami Formation)
-6.7	5.2	8	10	12	22	630-3			5.2ft: soft
-9.4	7.9	6	6	5	11	630-4			7.9ft: very soft
-11.5	10.0	5	5	4	9	630-5			
-14.3	12.8	11	13	9	22	630-6			12.8ft: soft, fossiliferous
-19.3	17.8	5	4	7	11	630-7			17.8ft: very soft
-24.3	22.8	5	8	5	13	630-8			22.8ft: trace fines
-27.5	26.0								-27.5 26.0 LIMESTONE, boundstone, pale yellow (5Y8/2), hard, wet, strong HCl reaction (Upper Fort Thompson Formation)
-29.7	28.2								29.2ft: Switch sampling method to coring
-30.7	29.2	50/0.4			50/0.4	630-9			29.6ft: white (2.5YR8/1), hard, indurated, fossiliferous, strong HCl reaction, coralline, trace shell molds, few vugs
-33.9	32.4					RUN-1			32.4ft: very hard
-34.9	33.4					RUN-2			33.4ft: hard, recrystallized calcite
-39.9	38.4					RUN-3			38.4ft: white (10YR8/1)
-44.9	43.4					RUN-4			43.4ft: white (10YR8/1) to 45.1ft then gray (N5/) to 47.9ft
-49.9	48.4					RUN-5			
-49.4	47.9								LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation)
-54.9	53.4					RUN-6			53.4ft: white (10YR8/1)
-59.9	58.4					RUN-7			58.4ft: trace coarse grained sand
-64.9	63.4					RUN-8			
-69.9	68.4					RUN-9			
-74.9	73.4					RUN-10			
						RUN-11			

SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA

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

MACTEC

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Woodham
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550X (ATL)	DRILLER: R. Landeros/ N. Rodriguez	GROUND WATER (ft)
BORING NO.: B-630	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core/UD	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 396,872 US ft (NAD83/90)	EASTING: 876,462 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 294.0 ft	BORING DIAMETER: 6" to 108.8', 5" to 294.0'	CASING DEPTH: 4" to 26.0', 6" to 108.8'	HAMMER (ID): 140 lb. Auto (MEC-05)
DATE STARTED: 4/9/08	COMPLETED: 4/29/08	CORE SIZE: HQ3	BITS USED: 4 7/8" & 3 7/8" Roller Cones

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-76.3					Continued from previous page				
-79.9	78.4					RUN-12			LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation) *(continued)*
-84.9	83.4					RUN-13			83.4ft: moderately hard
-89.9	88.4					RUN-14			88.4 to 90.6ft: massive
-94.9	93.4					RUN-15			93.4ft: sandy, few vugs
-99.9	98.4					RUN-16			98.4ft: moderately hard, little to some shell molds and casts
-104.9	103.4					RUN-17			103.4ft: hard
-109.9	108.4					RUN-18			
-114.9	113.4					RUN-19			
-116.5	115.0								115.0ft: Possible Silty SAND (SM); no recovery (Tamiami Formation)
-119.9	118.4					630-UD-1			118.4ft: Switch sampling method to Pitcher barrel 118.4ft: coarse sand with limestone fragments - recovery 1.4ft
-131.0	129.5					630-UD-2			129.5ft: Silty SAND (SM), light yellowish brown (2.5YR6/3), fine grained sand - recovery 1.2ft
-134.0	132.5					630-UD-3			132.5ft: Silty SAND (SM), greenish gray (10Y6/1), fine grained sand - recovery 1.2ft
-140.0	138.5					630-UD-4			138.6ft: Silty SAND (SM), greenish gray (10Y6/1), layers of cemented sand - recovery 2.0ft
-150.0	148.5					630-UD-5			148.5ft: no recovery

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

MACTEC

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Woodham	
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550X (ATL)	DRILLER: R. Landeros/ N. Rodriguez	GROUND WATER (ft)	
BORING NO.: B-630	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core/UD	0 HR. NA	
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 396,872 US ft (NAD83/90)	EASTING: 876,462 US ft (NAD83/90)	24 HR. NA	
TOTAL DEPTH: 294.0 ft	BORING DIAMETER: 6" to 108.8', 5" to 294.0'	CASING DEPTH: 4" to 26.0', 6" to 108.8'	HAMMER (ID):140 lb. Auto (MEC-05)	
DATE STARTED: 4/9/08	COMPLETED: 4/29/08	CORE SIZE: HQ3	BITS USED: 4 7/8" & 3 7/8" Roller Cones	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-151.1					Continued from previous page				
-153.0	151.5					630-UD-6			115.0ft: Possible Silty SAND (SM); no recovery (Tamiami Formation) *(continued)* 151.5ft: Switch sampling method to Shelby tube 151.5ft: no recovery
-160.0	158.5					630-UD-7			158.5ft: Switch sampling method to Pitcher barrel 158.5ft: no recovery
-163.0	161.5					630-UD-8			161.5ft: Switch sampling method to Shelby Tube 161.5ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 1.1ft
-165.0	163.5					630-UD-9			163.5ft: no recovery
-170.0	168.5					630-UD-10			168.5ft: Switch sampling method to Osterberg Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 1.1ft
-173.0	171.5					630-UD-11			171.5ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 0.7ft
-180.0	178.5					630-UD-12			-180.0 178.5 178.5ft: Sandy SILT (ML), Greenish gray (10Y6/1), fine to medium grained sand - recovery 1.5ft
-190.0	188.5					630-UD-13			-190.0 188.5 188.5ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 1.0ft
-193.0	191.5					630-UD-14			191.5ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 1.8ft
-204.5	203.0					630-UD-15			203.0ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 1.5ft
-210.0	208.5					630-UD-16			208.5ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 1.9ft
-216.5	215.0								215.0ft: Hawthorn Group
-220.0	218.5					630-UD-17			218.5ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 0.3ft
-223.0	221.5					630-UD-18			221.5ft: Silty SAND (SM), Greenish gray (10Y6/1), fine grained sand - recovery 0.6ft
-225.5	224.0								

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

MACTEC

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Woodham
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550X (ATL)	DRILLER: R. Landeros/ N. Rodriguez	GROUND WATER (ft)
BORING NO.: B-630	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core/UD	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 396,872 US ft (NAD83/90)	EASTING: 876,462 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 294.0 ft	BORING DIAMETER: 6" to 108.8', 5" to 294.0'	CASING DEPTH: 4" to 26.0', 6" to 108.8'	HAMMER (ID):140 lb. Auto (MEC-05)
DATE STARTED: 4/9/08	COMPLETED: 4/29/08	CORE SIZE: HQ3	BITS USED: 4 7/8" & 3 7/8" Roller Cones

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-225.9					Continued from previous page				
-227.0	225.5	9	8	19	27	630-10			215.0ft: Hawthorn Group *(continued)*
-228.5	227.0	9	50/0.5			630-11			224.5ft: Switch sampling method to SPT
-230.0	228.5	48	50/0.3		59/1.0 98/0.8	630-12			Silty SAND (SM), light greenish gray (10Y7/1), medium dense, moist, fine grained sand, few fines, strong HCl reaction
						630-UD-19			225.5ft: very dense
									228.5ft: Switch sampling method to Pitcher barrel
									Silty SAND (SM), greenish gray (5GY5/1), fine grained sand - recovery 1.9ft
									231.0ft: dark greenish gray (10Y4/1)
-240.0	238.5								-240.0 238.5
						630-UD-20			238.5ft: Switch sampling method to Osterberg
-243.0	241.5								238.5ft: SAND with silt (SP-SM), greenish gray (10Y6/1), fine grained sand - recovery 0.4ft
						630-UD-21			241.5ft: Switch sampling method to Pitcher barrel
									241.5ft: SAND with silt (SP-SM), light greenish gray (10Y7/1), fine grained sand - recovery 1.4ft
-250.0	248.5								
						630-UD-22			248.5ft: SAND with silt (SP-SM), light greenish gray (10Y6/1), fine grained sand - recovery 2.5ft
-260.0	258.5								-260.0 258.5
						630-UD-23			258.5ft: Silty SAND (SM), dark greenish gray (10Y4/1), fine grained sand - recovery 2.5
-270.0	268.5					630-UD-24			268.5: Silty SAND (SM), dark greenish gray (5GY4/1), fine grained sand - recovery 2.5ft
-280.0	278.5					630-UD-25			278.5ft: Silty SAND (SM), dark greenish gray (5GY4/1), fine grained sand - recovery 2.5
-290.0	288.5					630-UD-26			288.5ft: Silty SAND (SM), dark greenish gray (10Y4/1), fine grained sand - recovery 0.7ft
-293.0	291.5					630-UD-27			291.5ft: Silty SAND (SM), dark greenish gray (10Y4/1), fine grained sand - recovery 0.8
-295.5	294.0								Boring Terminated at Elevation -295.5 ft

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

MACTEC

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Woodham
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550X (ATL)	DRILLER: R. Landeros/ N. Rodriguez	GROUND WATER (ft)
BORING NO.: B-630	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core/UD	0 HR. NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 396,872 US ft (NAD83/90)	EASTING: 876,462 US ft (NAD83/90)	24 HR. NA
TOTAL DEPTH: 294.0 ft	CASING DEPTH: 4" to 26.0', 6" to 108.8'		HAMMER (ID): 140 lb. Auto (MEC-05)
DATE STARTED: 4/9/08	COMPLETED: 4/29/08	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 @ 29.2 ft
-30.7	29.2	3.2	0:16 0:56 0:55/1.2	(3.0) 94%	(2.2) 69%	RUN-1	(17.4) 93%	(11.8) 63%		LIMESTONE, boundstone, pale yellow (5Y8/2), hard, wet, strong HCl reaction (Upper Fort Thompson Formation) *(continued)* 29.6ft: white (2.5YR8/1), hard, indurated, fossiliferous, strong HCl reaction, coralline, trace shell molds, few vugs
-33.9	32.4									
-34.9	33.4	1.0	0:49	(1.0) 100%	(0.8) 80%	RUN-2				
		5.0	1:17 1:30 1:05 1:24 2:00	(5.0) 100%	(3.5) 70%	RUN-3				32.4ft: very hard 33.4ft: hard, recrystallized calcite
-39.9	38.4									
		5.0	1:29 1:50 0:49 1:27 1:04	(3.9) 78%	(2.8) 56%	RUN-4				38.4ft: white (10YR8/1)
-44.9	43.4									
		5.0	1:52 1:09 1:08 1:24 2:10	(4.7) 94%	(2.7) 54%	RUN-5				43.4ft: white (10YR8/1) to 45.1ft then gray (N5/) to 47.9ft
-49.9	48.4									-49.4 47.9
		5.0	0:55 1:20 1:52 1:48 1:08	(5.0) 100%	(4.2) 84%	RUN-6	(48.0) 72%	(29.8) 44%		LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation)
-54.9	53.4									
		5.0	1:01 1:06 0:35 0:32 0:22	(4.8) 96%	(4.0) 80%	RUN-7				53.4ft: white (10YR8/1)
-59.9	58.4									
		5.0	0:27 0:20 0:32 0:40 0:26	(3.8) 76%	(2.2) 44%	RUN-8				58.4ft: trace coarse grained sand
-64.9	63.4									
		5.0	0:41 0:39 0:52 1:05 0:52	(2.1) 42%	(0.0) 0%	RUN-9				
-69.9	68.4									
		5.0	0:18 0:44 0:45 0:33 0:34	(3.7) 74%	(1.5) 30%	RUN-10				
-74.9	73.4									
		5.0	0:47 0:49 1:13 0:57 0:25	(3.6) 72%	(2.2) 44%	RUN-11				
-79.9	78.4									
		5.0	0:41 0:39 0:26 0:21 0:28	(2.4) 48%	(1.1) 22%	RUN-12				
-84.9	83.4									
		5.0	0:50 0:23 0:11 0:20 0:23	(1.4) 28%	(0.4) 8%	RUN-13				83.4ft: moderately hard
-89.9	88.4									
		5.0	0:48 0:50 0:40 0:32 0:38	(3.6) 72%	(2.0) 40%	RUN-14				88.4 to 90.6ft: massive
-94.9	93.4									
		5.0	0:28 0:34 0:39 0:32 0:38	(5.0) 100%	(4.2) 84%	RUN-15				93.4ft: sandy, few vugs
-99.9	98.4									
		5.0	0:30 0:19 0:32 0:25 0:25	(3.0) 60%	(0.8) 16%	RUN-16				98.4ft: moderately hard, little to some shell molds and casts
-104.9	103.4									

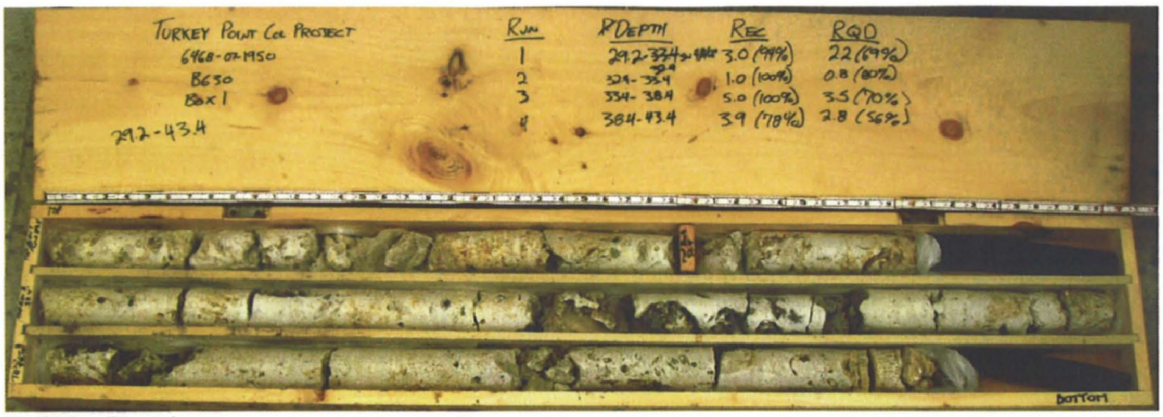
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08

MACTEC

BECHTEL PROJECT NO.: 25409	MACTEC PROJECT NO.: 6468-07-1950	COUNTY: Miami-Dade	GEOLOGIST: S. Woodham	
SITE DESCRIPTION: Turkey Point COL	DRILL MACHINE: CME-550X (ATL)	DRILLER: R. Landeros/ N. Rodriguez	GROUND WATER (ft)	
BORING NO.: B-630	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core/UD	0 HR.	NA
GROUND ELEV.: -1.5 ft (NAVD88)	NORTHING: 396,872 US ft (NAD83/90)	EASTING: 876,462 US ft (NAD83/90)	24 HR.	NA
TOTAL DEPTH: 294.0 ft	CASING DEPTH: 4" to 26.0', 6" to 108.8'		HAMMER (ID): 140 lb. Auto (MEC-05)	
DATE STARTED: 4/9/08	COMPLETED: 4/29/08	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
		5.0	0:23 0:23 0:25 0:26 0:23	(5.0) 100%	(4.4) 88%	RUN-17				103.4ft: hard LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, fossiliferous, trace shell molds, strong HCl reaction (Lower Fort Thompson Formation) *(continued)*
-109.9	108.4									
		5.0	0:21 0:24 0:47 0:33 0:53	(3.9) 78%	(2.2) 44%	RUN-18				
-114.9	113.4									
		5.0	0:25 0:22 0:15 0:15 0:18	(0.5) 10%	(0.4) 8%	RUN-19				
							(0.0) 0%	(NA)		-116.5 115.0 115.0ft: Possible Silty SAND (SM): no recovery (Tamiami Formation)
-119.9	118.4									-119.9 118.4 Coring Terminated at Elevation -119.9

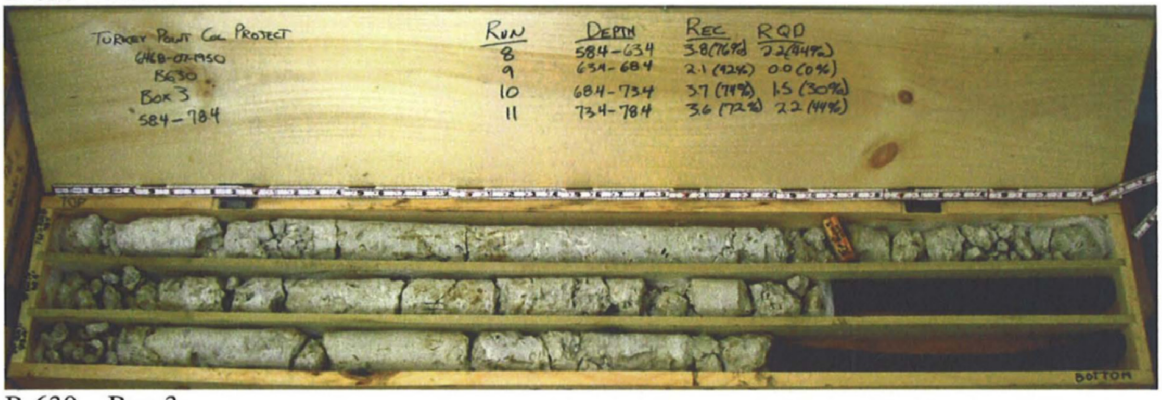
TURKEY POINT COL CORE TURKEY POINT.GPJ TURKEY POINT COL.GDT 5/30/08



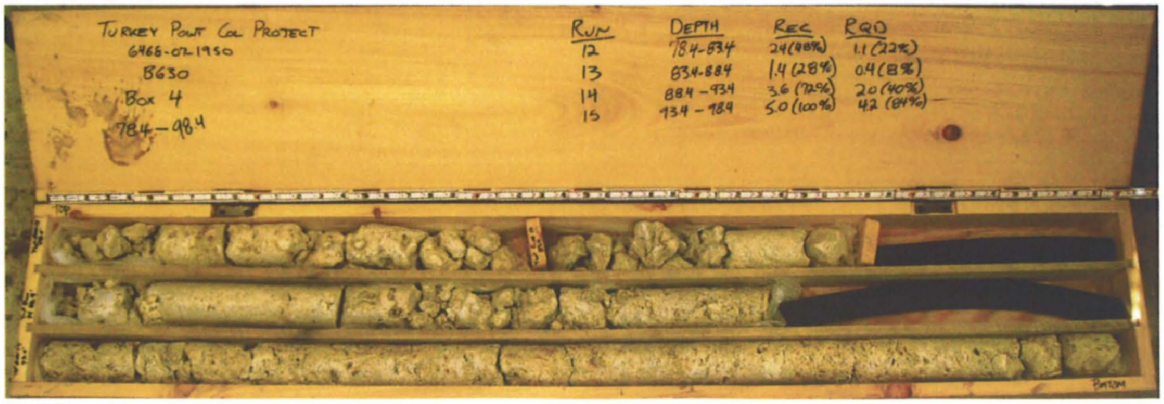
B-630 – Box 1



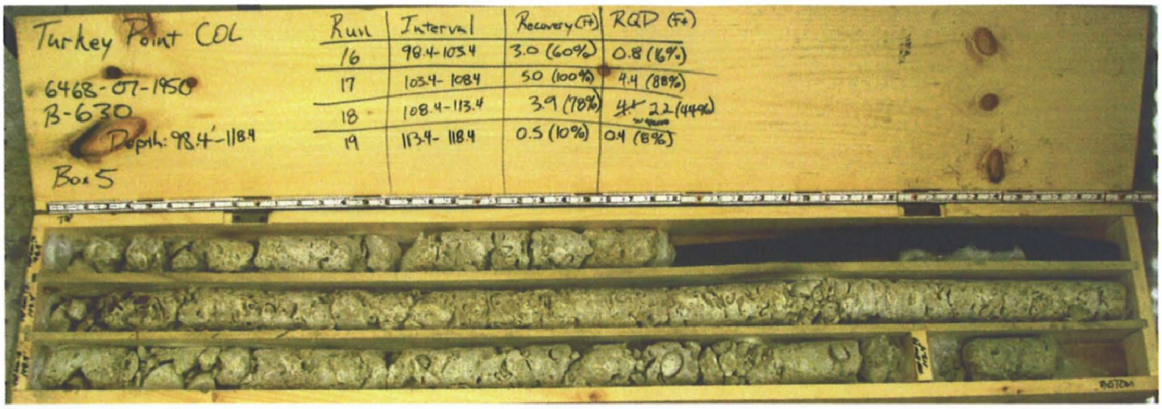
B-630 – Box 2



B-630 – Box 3



B-630 – Box 4


Turkey Point COL
6468-07-1950
B-630
Depth: 98.4'-118.4
Box 5
Run | Interval | Recovery (Ft) | RQD (Ft)
16 | 98.4-103.4 | 3.0 (60%) | 0.8 (16%)
17 | 103.4-108.4 | 5.0 (100%) | 4.4 (88%)
18 | 108.4-113.4 | 3.9 (78%) | 2.2 (44%)
19 | 113.4-118.4 | 0.5 (10%) | 0.4 (8%)

B-630 – Box 5

MACTEC

GEOTECHNICAL BORING LOG

Prepared By _____ Date 5-30-08

Checked By _____ 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-631	DRILL METHOD: Mud Rotary/ Core	SAMPLE METHODS: SPT/Core	0 HR.	NA
GROUND ELEV.: -1.2 ft (NAVD88)	NORTHING: 396,655 US ft (NAD83/90)	EASTING: 876,514 US ft (NAD83/90)	24 HR.	NA
TOTAL DEPTH: 100.8 ft	BORING DIAMETER: 4" to 33.5', 3" to 100.8'	CASING DEPTH: 4" to 33.5'	HAMMER (ID):140 lb. Auto (M06)	
DATE STARTED: 4/30/08	COMPLETED: 5/2/08	CORE SIZE: HQ3	BITS USED: 2 7/8" Roller Cone	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-1.2					Ground Surface				
-1.2	0.0	WOH	WOH	WOH	WOH 0	631-1			-1.2 0.0 MUCK, very dark gray (2.5Y3/1), wet, very soft, mostly organic, strong HCl reaction
-3.8	2.6	WOH	1	6	7	631-2A&B			-4.8 3.6 LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, little to some fine grained sand, strong HCl reaction, oolitic (Miami Formation)
-6.2	5.0	5	10	9	19	631-3			
-8.6	7.4	6	7	6	13	631-4			
-11.2	10.0	3	9	5	14	631-5			
-13.6	12.4	42	25	12	37	631-6			12.4ft: medium hard
-16.1	14.9	14	11	8	19	631-7			14.9ft: very soft, trace fine grained sand
-23.0	21.8	7	7	9	16	631-8			-26.2 25.0 LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, trace fine grained sand, strong HCl reaction (Upper Fort Thompson Formation)
-28.0	26.8	41	40	25	65	631-9			
-33.0	31.8	11	14	16	30	631-10			31.8ft: soft
-35.5	34.3	17	40	33	73	631-11			34.3ft: hard 35.8ft: Switched sample method to coring 35.8ft: (2.5Y8/1), hard, indurated, strong HCl reaction, fossiliferous
-37.0	35.8					RUN-1			
-42.0	40.8					RUN-2			40.8ft: recrystallized calcite, coralline
-47.0	45.8					RUN-3			45.8ft: light gray (10YR7/1) to 48.4ft, moderately hard to hard, moderately indurated to indurated
-49.6									48.4
-52.0	50.8					RUN-4			LIMESTONE, boundstone, white (2.5Y8/1), moderately hard to hard, moderately indurated to indurated, little vugs, fossiliferous, trace shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) 50.8ft: medium hard to moderately hard, friable to moderately indurated, few vugs
-57.0	55.8					RUN-5			55.8ft: moderately hard to hard, moderately indurated to indurated
-62.0	60.8					RUN-6			60.8ft: medium hard to hard, friable to moderately indurated 65.3ft: 0.3ft-thick sand lense
-67.0	65.8					RUN-7			65.8ft: medium hard to moderately hard, little to some fine grained sand
-72.0	70.8					RUN-8			

SEE LEGEND FOR ROCK HARDNESS CRITERIA BASED ON SPT DATA

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