



## GEOTECHNICAL BORING LOG

Prepared By JPM Date 5-3-08Checked By JPM Date 5-3-08

SHEET 1 OF 2

|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
|------------------------------------|-------|--------------------------------------------|-------|------------------------------------|----------------|-----------------------------------------|----|-----------------------------------|----|------------------------------------|----------|---------------------------|-----|
| BECHTEL PROJECT NO.: 25409         |       |                                            |       | MACTEC PROJECT NO.: 6468-07-1950   |                |                                         |    | COUNTY: Miami-Dade                |    | GEOLOGIST: G. Pillappa             |          |                           |     |
| SITE DESCRIPTION: Turkey Point COL |       |                                            |       | DRILL MACHINE: CME-550 (ATL)       |                |                                         |    | DRILLER: L. Carter/ J. Landeros   |    |                                    |          | GROUND WATER (ft)         |     |
| BORING NO.: B-721                  |       |                                            |       | DRILL METHOD: Mud Rotary/Core      |                |                                         |    | SAMPLE METHODS: SPT/Core          |    |                                    |          | 0 HR. NA                  |     |
| GROUND ELEV.: -1.5 ft (NAVD88)     |       |                                            |       | NORTHING: 397,338 US ft (NAD83/90) |                |                                         |    | EASTING: 876,120 US ft (NAD83/90) |    |                                    |          | 24 HR. NA                 |     |
| TOTAL DEPTH: 127.4 ft              |       | BORING DIAMETER: 4" to 36.0', 3" to 127.4' |       |                                    |                | CASING DEPTH: 4" to 36.0', 3" to 117.2' |    |                                   |    | HAMMER (ID): 140 lb. Auto (MEC-03) |          |                           |     |
| DATE STARTED: 4/21/08              |       | COMPLETED: 4/23/08                         |       | CORE SIZE: HQ3                     |                | BITS USED: 2 7/8" 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. |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -1.5                               |       |                                            |       |                                    | Ground Surface |                                         |    |                                   |    |                                    |          |                           |     |
| -1.5                               | 0.0   | WOH                                        | WOH   | WOH                                | 0              |                                         |    |                                   |    |                                    | 721-1    | -1.5                      |     |
| -4.0                               | 2.5   |                                            |       |                                    |                |                                         |    |                                   |    |                                    | 721-2A&B |                           |     |
| -6.5                               | 5.0   | WOH                                        | 9     | 16                                 |                |                                         |    |                                   |    |                                    |          | -5.0                      |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          | 3.5                       |     |
| -9.0                               | 7.5   | 11                                         | 10    | 7                                  |                |                                         |    |                                   |    |                                    | 721-3    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -11.5                              | 10.0  | 10                                         | 19    | 8                                  |                |                                         |    |                                   |    |                                    | 721-4    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -14.0                              | 12.5  | 7                                          | 4     | 6                                  |                |                                         |    |                                   |    |                                    | 721-5    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -16.5                              | 15.0  | 8                                          | 11    | 11                                 |                |                                         |    |                                   |    |                                    | 721-6    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
|                                    |       | 33                                         | 29    | 50                                 |                |                                         |    |                                   |    |                                    | 721-7    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -21.2                              | 19.7  | 4                                          | 4     | 7                                  |                |                                         |    |                                   |    |                                    | 721-8    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -26.0                              | 24.5  | 24                                         | 27    | 8                                  |                |                                         |    |                                   |    |                                    | 721-9    | -25.5                     |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          | 24.0                      |     |
| -31.0                              | 29.5  | 22                                         | 7     | 3                                  |                |                                         |    |                                   |    |                                    | 721-10   |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -36.0                              | 34.5  |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -37.5                              | 36.0  | 5                                          | 5     | 3                                  |                |                                         |    |                                   |    |                                    | 721-11   |                           |     |
| -38.7                              | 37.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-1    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-2    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -43.7                              | 42.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-3    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -48.7                              | 47.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-4    | -49.2                     |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          | 47.7                      |     |
| -53.7                              | 52.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-5    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -58.7                              | 57.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-6    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -63.7                              | 62.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-7    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -68.7                              | 67.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-8    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |
| -73.7                              | 72.2  |                                            |       |                                    |                |                                         |    |                                   |    |                                    | RUN-9    |                           |     |
|                                    |       |                                            |       |                                    |                |                                         |    |                                   |    |                                    |          |                           |     |

SEE LEGEND FOR ROCK HARDNESS  
CRITERIA BASED ON SPT DATA

LOG

MUCK, very dense, gray (10YR3/1), very soft, wet, mostly organic, strong HCl reaction

2.5ft: very dark brown (10YR3/3), to dark yellowish brown (10YR4/4)

LIMESTONE, boundstone, light olive gray (5YR6/2), soft, wet, strong HCl reaction (Miami Formation

5.0ft: white (10YR8/1), very soft, fossiliferous, oolitic

7.5ft: light gray (10YR7/1), soft

10.0ft: white (10YR8/1), very soft

12.5ft: soft

15.0ft: light gray (10YR7/1), hard

19.7ft: white (10YR8/1), very soft

LIMESTONE, boundstone, white (10YR8/1), medium hard, wet, trace shell fragments, strong HCl reaction (Upper Fort Thompson Formation)

29.5ft: very soft, trace coralline

31.5ft: loss of circulation

34.5ft: light gray (10YR7/1)

36.0ft: Switch sampling method to coring

LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), medium hard to hard, indurated, trace coralline, fossiliferous, trace clayey sand, strong HCl reaction, few vugs

37.2ft: hard

42.2ft: white (10YR8/1), to 45.7ft then gray (10YR6/1), very hard

47.2ft: light gray (10YR7/2) to 47.7ft. hard

LIMESTONE, boundstone, white (10YR8/1), hard, indurated, trace vugs, fossiliferous, trace to few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation)

52.2ft: medium hard to hard, friable to indurated, trace clayey sand

57.2ft: moderately hard to hard, indurated

62.2ft: moderately hard to hard

67.2ft: hard

67.2 to 72.2ft: possible sand interbeds

TURKEY POINT COL BORE TURKEY POINT GP1 TURKEY POINT COL GDT 5/3/08



SHEET 2 OF 2

| BECHTEL PROJECT NO.: 25409               |               |            | MACTEC PROJECT NO.: 6468-07-1950           |       |                              | COUNTY: Miami-Dade                      |    |    | GEOLOGIST: G. Pillappa             |              |     |                                                                                                                                                                                                                                                                                |       |  |
|------------------------------------------|---------------|------------|--------------------------------------------|-------|------------------------------|-----------------------------------------|----|----|------------------------------------|--------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|
| SITE DESCRIPTION: Turkey Point COL       |               |            | DRILL MACHINE: CME-550 (ATL)               |       |                              | DRILLER: L. Carter/ J. Landeros         |    |    | GROUND WATER (ft)                  |              |     |                                                                                                                                                                                                                                                                                |       |  |
| BORING NO.: B-721                        |               |            | DRILL METHOD: Mud Rotary/Core              |       |                              | SAMPLE METHODS: SPT/Core                |    |    | 0 HR. NA                           |              |     |                                                                                                                                                                                                                                                                                |       |  |
| GROUND ELEV.: -1.5 ft (NAVD88)           |               |            | NORTHING: 397,338 US ft (NAD83/90)         |       |                              | EASTING: 876,120 US ft (NAD83/90)       |    |    | 24 HR. NA                          |              |     |                                                                                                                                                                                                                                                                                |       |  |
| TOTAL DEPTH: 127.4 ft                    |               |            | BORING DIAMETER: 4" to 36.0', 3" to 127.4' |       |                              | CASING DEPTH: 4" to 36.0', 3" to 117.2' |    |    | HAMMER (ID): 140 lb. Auto (MEC-03) |              |     |                                                                                                                                                                                                                                                                                |       |  |
| DATE STARTED: 4/21/08                    |               |            | COMPLETED: 4/23/08                         |       |                              | CORE SIZE: HQ3                          |    |    | BITS USED: 2 7/8" Tricone          |              |     |                                                                                                                                                                                                                                                                                |       |  |
| ELEV.<br>(ft)                            | DEPTH<br>(ft) | BLOW COUNT |                                            |       | BLOWS PER FOOT               |                                         |    |    |                                    | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                                                                                                                                                      |       |  |
|                                          |               | 0.5ft      | 0.5ft                                      | 0.5ft | 0                            | 20                                      | 40 | 60 | 80                                 | 100          | MOI |                                                                                                                                                                                                                                                                                |       |  |
| -76.3                                    |               |            |                                            |       | Continued from previous page |                                         |    |    |                                    |              |     |                                                                                                                                                                                                                                                                                |       |  |
| -78.7                                    | 77.2          |            |                                            |       |                              |                                         |    |    |                                    | RUN-10       |     | LIMESTONE, boundstone, white (10YR8/1), hard, indurated, trace vugs, fossiliferous, trace to few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation) (continued)<br>77.2ft: moderately hard to hard, trace to few shell molds and casts<br>82.2ft: hard |       |  |
| -83.7                                    | 82.2          |            |                                            |       |                              |                                         |    |    |                                    | RUN-11       |     |                                                                                                                                                                                                                                                                                |       |  |
| -88.7                                    | 87.2          |            |                                            |       |                              |                                         |    |    |                                    | RUN-12       |     |                                                                                                                                                                                                                                                                                |       |  |
| -93.7                                    | 92.2          |            |                                            |       |                              |                                         |    |    |                                    | RUN-13       |     |                                                                                                                                                                                                                                                                                |       |  |
| -98.7                                    | 97.2          |            |                                            |       |                              |                                         |    |    |                                    | RUN-14       |     | 94.2ft: possible 0.9ft-thick sand interbed                                                                                                                                                                                                                                     |       |  |
| -103.7                                   | 102.2         |            |                                            |       |                              |                                         |    |    |                                    | RUN-15       |     |                                                                                                                                                                                                                                                                                |       |  |
| -108.7                                   | 107.2         |            |                                            |       |                              |                                         |    |    |                                    | RUN-16       |     |                                                                                                                                                                                                                                                                                |       |  |
| -113.7                                   | 112.2         |            |                                            |       |                              |                                         |    |    |                                    | RUN-17       |     |                                                                                                                                                                                                                                                                                |       |  |
| -118.7                                   | 117.2         | 9          | 5                                          | 6     |                              |                                         |    |    |                                    | 721-12       |     | 112.2ft: white (10YR8/1), to very pale brown (10YR8/4), to light gray (10YR7/1)<br>Silty SAND (SM), pale yellow (5Y7/4), medium dense, wet, trace limestone fragments, weak HCl reaction, fine grained sand (Tamiami Formation)<br>117.2ft: Switch sampling method to SPT      |       |  |
| -127.4                                   | 125.9         | 13         | 14                                         | 8     |                              |                                         |    |    |                                    | 721-13       |     |                                                                                                                                                                                                                                                                                |       |  |
|                                          |               |            |                                            |       |                              |                                         |    |    |                                    |              |     | -115.5                                                                                                                                                                                                                                                                         | 114.0 |  |
|                                          |               |            |                                            |       |                              |                                         |    |    |                                    |              |     | -128.9                                                                                                                                                                                                                                                                         | 127.4 |  |
| Boring Terminated at Elevation -128.9 ft |               |            |                                            |       |                              |                                         |    |    |                                    |              |     |                                                                                                                                                                                                                                                                                |       |  |

TURKEY POINT COL BORE TURKEY POINT COL GDI 5/30/08



SHEET 1 OF 2

|                                    |  |                                         |  |                                   |                                                             |
|------------------------------------|--|-----------------------------------------|--|-----------------------------------|-------------------------------------------------------------|
| BECHTEL PROJECT NO.: 25409         |  | MACTEC PROJECT NO.: 6468-07-1950        |  | COUNTY: Miami-Dade                | GEOLOGIST: G. Pillappa                                      |
| SITE DESCRIPTION: Turkey Point COL |  | DRILL MACHINE: CME-550 (ATL)            |  | DRILLER: L. Carter/ J. Landeros   |                                                             |
| BORING NO.: B-721                  |  | DRILL METHOD: Mud Rotary/Core           |  | SAMPLE METHODS: SPT/Core          |                                                             |
| GROUND ELEV.: -1.5 ft (NAVD88)     |  | NORTHING: 397,338 US ft (NAD83/90)      |  | EASTING: 876,120 US ft (NAD83/90) |                                                             |
| TOTAL DEPTH: 127.4 ft              |  | CASING DEPTH: 4" to 36.0', 3" to 117.2' |  |                                   | HAMMER (ID): 140 lb. Auto (MEC-03)                          |
| DATE STARTED: 4/21/08              |  | COMPLETED: 4/23/08                      |  | CORE SIZE: HQ3                    | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |

| ELEV.<br>(ft) | DEPTH<br>(ft) | RUN<br>(ft) | DRILL<br>RATE<br>(Min/ft)            | RUN              |                  | SAMP.<br>NO. | STRATA           |                  | L<br>O<br>G | DESCRIPTION AND REMARKS                                                                                                                                                           |
|---------------|---------------|-------------|--------------------------------------|------------------|------------------|--------------|------------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |               |             |                                      | REC<br>(ft)<br>% | ROD<br>(ft)<br>% |              | REC<br>(ft)<br>% | ROD<br>(ft)<br>% |             |                                                                                                                                                                                   |
|               |               |             |                                      |                  |                  |              |                  |                  |             | Begin Coring @ 36.0 ft                                                                                                                                                            |
| -37.5         | 36.0          | 1.2         | 1.02                                 | (1.2)            | (0.0)            | RUN-1        | (11.3)           | (8.1)            |             | LIMESTONE, boundstone, white (10YR8/1), medium hard, wet, trace shell fragments, strong HCl reaction (Upper Fort Thompson Formation) (continued)                                  |
| -38.7         | 37.2          | 5.0         | 0.10/0.2                             | 100%             | 0%               | RUN-2        | 97%              | 69%              |             | LIMESTONE, boundstone, white (10YR8/1), to light gray (10YR7/1), medium hard to hard, indurated, trace coralline, fossiliferous, trace clayey sand, strong HCl reaction, few vugs |
| -43.7         | 42.2          |             | 1.45<br>3.36<br>2.14<br>2.36<br>2.37 | (4.6)<br>92%     | (2.6)<br>52%     |              |                  |                  |             | 37.2ft: hard                                                                                                                                                                      |
|               |               | 5.0         | 4.33<br>3.42<br>2.45<br>2.17<br>2.01 | (5.0)<br>100%    | (5.0)<br>100%    | RUN-3        |                  |                  |             | 42.2ft: white (10YR8/1), to 45.7ft then gray (10YR6/1), very hard                                                                                                                 |
| -48.7         | 47.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 1.52<br>1.49<br>2.20<br>1.47<br>1.39 | (5.0)<br>100%    | (5.0)<br>100%    | RUN-4        | (48.7)<br>73%    | (27.8)<br>42%    | -49.2       | 47.2ft: light gray (10YR7/2) to 47.7ft, hard                                                                                                                                      |
| -53.7         | 52.2          |             |                                      |                  |                  |              |                  |                  |             | LIMESTONE, boundstone, white (10YR8/1), hard, indurated, trace vugs, fossiliferous, trace to few shell molds and casts, strong HCl reaction (Lower Fort Thompson Formation)       |
|               |               | 5.0         | 1.15<br>1.31<br>2.02<br>1.32<br>1.34 | (5.0)<br>100%    | (2.8)<br>56%     | RUN-5        |                  |                  |             | 52.2ft: medium hard to hard, friable to indurated, trace clayey sand                                                                                                              |
| -58.7         | 57.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 0.40<br>1.41<br>2.03<br>2.43<br>1.29 | (4.6)<br>92%     | (3.7)<br>74%     | RUN-6        |                  |                  |             | 57.2ft: moderately hard to hard, indurated                                                                                                                                        |
| -63.7         | 62.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 0.57<br>0.21<br>1.59<br>2.00<br>2.03 | (4.0)<br>80%     | (1.5)<br>30%     | RUN-7        |                  |                  |             | 62.2ft: moderately hard to hard                                                                                                                                                   |
| -68.7         | 67.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 1.10<br>1.05<br>3.37<br>1.10<br>0.53 | (1.8)<br>36%     | (0.0)<br>0%      | RUN-8        |                  |                  |             | 67.2ft: hard                                                                                                                                                                      |
| -73.7         | 72.2          |             |                                      |                  |                  |              |                  |                  |             | 67.2 to 72.2ft: possible sand interbeds                                                                                                                                           |
|               |               | 5.0         | 1.27<br>1.52<br>1.34<br>0.59<br>2.12 | (4.5)<br>90%     | (3.4)<br>68%     | RUN-9        |                  |                  |             |                                                                                                                                                                                   |
| -78.7         | 77.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 1.43<br>0.55<br>1.07<br>1.12<br>1.31 | (3.3)<br>66%     | (0.8)<br>16%     | RUN-10       |                  |                  |             | 77.2ft: moderately hard to hard, trace to few shell molds and casts                                                                                                               |
| -83.7         | 82.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 0.45<br>1.41<br>0.40<br>4.08<br>3.07 | (3.9)<br>78%     | (2.2)<br>44%     | RUN-11       |                  |                  |             | 82.2ft: hard                                                                                                                                                                      |
| -88.7         | 87.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 2.49<br>2.30<br>0.31<br>1.26<br>1.11 | (3.1)<br>62%     | (1.9)<br>38%     | RUN-12       |                  |                  |             |                                                                                                                                                                                   |
| -93.7         | 92.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 0.42<br>0.37<br>0.02<br>0.39<br>0.26 | (2.6)<br>52%     | (1.2)<br>24%     | RUN-13       |                  |                  |             | 94.2ft: possible 0.9ft-thick sand interbed                                                                                                                                        |
| -98.7         | 97.2          |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 0.04<br>0.10<br>0.59<br>2.42<br>1.10 | (3.2)<br>64%     | (1.7)<br>34%     | RUN-14       |                  |                  |             |                                                                                                                                                                                   |
| -103.7        | 102.2         |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 2.10<br>2.19<br>1.12<br>0.59<br>1.22 | (5.0)<br>100%    | (2.8)<br>56%     | RUN-15       |                  |                  |             |                                                                                                                                                                                   |
| -108.7        | 107.2         |             |                                      |                  |                  |              |                  |                  |             |                                                                                                                                                                                   |
|               |               | 5.0         | 0.39<br>0.29<br>0.35                 | (3.0)<br>60%     | (1.3)<br>26%     | RUN-16       |                  |                  |             |                                                                                                                                                                                   |

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



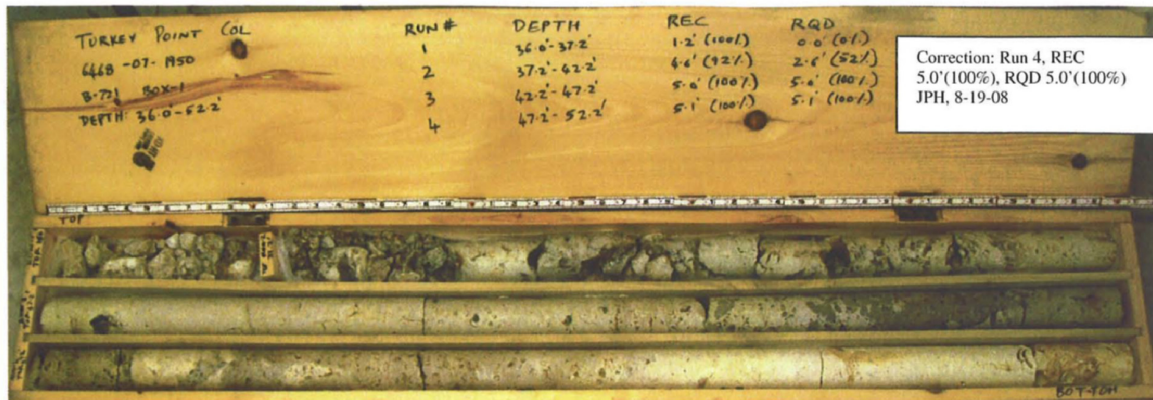
SHEET 2 OF 2

|                                    |                                         |                                    |                                                             |
|------------------------------------|-----------------------------------------|------------------------------------|-------------------------------------------------------------|
| BECHTEL PROJECT NO.: 25409         | MACTEC PROJECT NO.: 6468-07-1950        | COUNTY: Miami-Dade                 | GEOLOGIST: G. Pillappa                                      |
| SITE DESCRIPTION: Turkey Point COL | DRILL MACHINE: CME-550 (ATL)            | DRILLER: L. Carter/ J. Landeros    | GROUND WATER (ft)                                           |
| BORING NO.: B-721                  | DRILL METHOD: Mud Rotary/Core           | SAMPLE METHODS: SPT/Core           | 0 HR. NA                                                    |
| GROUND ELEV.: -1.5 ft (NAVD88)     | NORTHING: 397,338 US ft (NAD83/90)      | EASTING: 876,120 US ft (NAD83/90)  | 24 HR. NA                                                   |
| TOTAL DEPTH: 127.4 ft              | CASING DEPTH: 4" to 36.0', 3" to 117.2' | HAMMER (ID): 140 lb. Auto (MEC-03) |                                                             |
| DATE STARTED: 4/21/08              | COMPLETED: 4/23/08                      | CORE SIZE: HQ3                     | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |

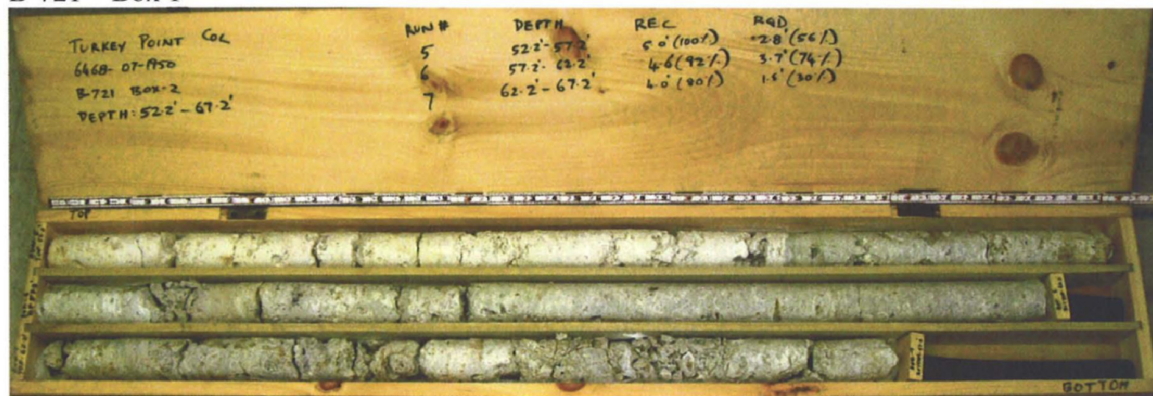
| ELEV.<br>(ft) | DEPTH<br>(ft) | RUN<br>(ft) | DRILL<br>RATE<br>(Min/ft)            | RUN               |                  | SAMP.<br>NO. | STRATA            |                  | L<br>O<br>G | DESCRIPTION AND REMARKS                                                                                                                                   |
|---------------|---------------|-------------|--------------------------------------|-------------------|------------------|--------------|-------------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |               |             |                                      | REC.<br>(ft)<br>% | RQD<br>(ft)<br>% |              | REC.<br>(ft)<br>% | RQD<br>(ft)<br>% |             |                                                                                                                                                           |
|               |               |             |                                      |                   |                  |              |                   |                  |             | Continued from previous page                                                                                                                              |
| -113.7        | 112.2         |             | 0:51<br>0:36                         |                   |                  |              |                   |                  |             |                                                                                                                                                           |
|               |               | 5.0         | 0:41<br>1:03<br>0:32<br>0:36<br>1:56 | (0.4)<br>8%       | (0.0)<br>0%      | RUN-17       |                   |                  |             | 112.2ft: white (10YR8/1), to very pale brown (10YR8/4), to light gray (10YR7/1)                                                                           |
|               |               |             |                                      |                   |                  |              | (0.0)<br>0%       | (NA)             |             | -115.5 Silty SAND (SM), pale yellow (5Y7/4), medium dense, wet, trace limestone fragments, weak HCl reaction, fine grained sand (Tamiami Formation) 114.0 |
| -118.7        | 117.2         |             |                                      |                   |                  |              |                   |                  |             | -118.7                                                                                                                                                    |
|               |               |             |                                      |                   |                  |              |                   |                  |             | Coring Terminated at Elevation -118.7                                                                                                                     |

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

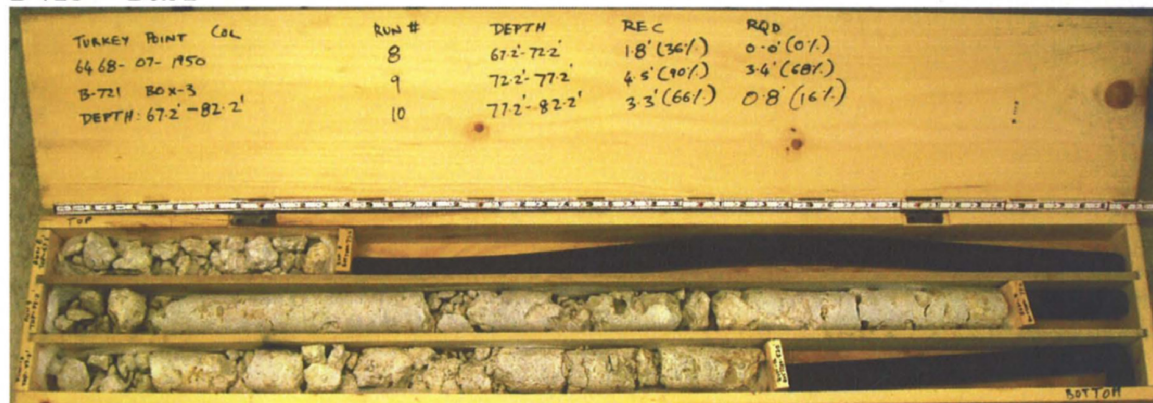




B-721 - Box 1



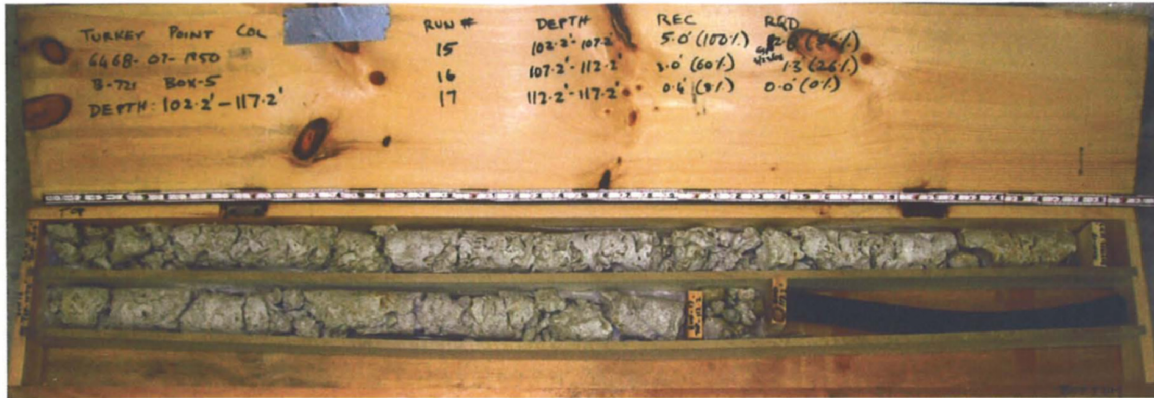
B-721 - Box 2



B-721 - Box 3



B-721 - Box 4



B-721 - Box 5



## GEOTECHNICAL BORING LOG

Prepared By                      Date                     Checked By                      Date 8/19/08

SHEET 1 OF 2

|                                    |       |            |                                            |       |                                    |                |    |                           |                             |                                   |        |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
|------------------------------------|-------|------------|--------------------------------------------|-------|------------------------------------|----------------|----|---------------------------|-----------------------------|-----------------------------------|--------|-----|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------|--|
| BECHTEL PROJECT NO.: 25409         |       |            |                                            |       | MACTEC PROJECT NO.: 6468-07-1950   |                |    |                           |                             | COUNTY: Miami-Dade                |        |     | GEOLOGIST: G. Pillappa             |                                                                                                                                                                 |                   |                                                                                                                       |  |
| SITE DESCRIPTION: Turkey Point COL |       |            |                                            |       | DRILL MACHINE: CME-550 (ATL)       |                |    |                           |                             | DRILLER: L. Carter/ J. Rosser     |        |     |                                    |                                                                                                                                                                 | GROUND WATER (ft) |                                                                                                                       |  |
| BORING NO.: B-722                  |       |            |                                            |       | DRILL METHOD: Mud Rotary/ Core     |                |    |                           |                             | SAMPLE METHODS: SPT/Core          |        |     |                                    |                                                                                                                                                                 | 0 HR. NA          |                                                                                                                       |  |
| GROUND ELEV.: -1.0 ft (NAVD88)     |       |            |                                            |       | NORTHING: 397,434 US ft (NAD83/90) |                |    |                           |                             | EASTING: 875,980 US ft (NAD83/90) |        |     |                                    |                                                                                                                                                                 | 24 HR. NA         |                                                                                                                       |  |
| TOTAL DEPTH: 103.2 ft              |       |            | BORING DIAMETER: 4" to 25.0', 3" to 103.2' |       |                                    |                |    | CASING DEPTH: 4" to 25.0' |                             |                                   |        |     | HAMMER (ID): 140 lb. Auto (MEC-03) |                                                                                                                                                                 |                   |                                                                                                                       |  |
| DATE STARTED: 4/29/08              |       |            | COMPLETED: 4/30/08                         |       |                                    | 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.    |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
|                                    |       |            |                                            |       |                                    |                |    |                           |                             |                                   |        |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
| -1.0                               |       |            |                                            |       | Ground Surface                     |                |    |                           |                             |                                   |        |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
| -1.0                               | 0.0   | WOH        | WOH                                        | WOH   |                                    |                |    |                           |                             |                                   | 722-1  |     |                                    | MUCK, light brownish gray (10YR6/3), to very dark gray (10YR3/1), very soft, dry to wet, mostly organic, strong HCl reaction                                    |                   |                                                                                                                       |  |
| -3.5                               | 2.5   | 18         | 15                                         | 16    |                                    |                |    |                           |                             |                                   | 722-2  |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
| -6.0                               | 5.0   | 10         | 10                                         | 8     |                                    |                |    |                           |                             |                                   | 722-3  |     |                                    | LIMESTONE, boundstone, white (10YR8/1), to very dark gray (10YR3/1), medium hard, wet, strong HCl reaction, oolitic (Miami Formation)                           |                   |                                                                                                                       |  |
| -8.5                               | 7.5   | 16         | 10                                         | 15    |                                    |                |    |                           |                             |                                   | 722-4  |     |                                    | 5.0ft: white (10YR8/1), very soft                                                                                                                               |                   |                                                                                                                       |  |
| -11.0                              | 10.0  | 8          | 10                                         | 7     |                                    |                |    |                           |                             |                                   | 722-5  |     |                                    | 7.5ft: soft                                                                                                                                                     |                   |                                                                                                                       |  |
| -13.5                              | 12.5  | 10         | 14                                         | 10    |                                    |                |    |                           |                             |                                   | 722-6  |     |                                    | 10.0ft: very soft                                                                                                                                               |                   |                                                                                                                       |  |
| -16.0                              | 15.0  | 8          | 14                                         | 34    |                                    |                |    |                           |                             |                                   | 722-7  |     |                                    | 12.5ft: soft                                                                                                                                                    |                   |                                                                                                                       |  |
| -20.7                              | 19.7  | 4          | 5                                          | 5     |                                    |                |    |                           |                             |                                   | 722-8  |     |                                    | 15.0ft: moderately hard                                                                                                                                         |                   |                                                                                                                       |  |
| -25.7                              | 24.7  | 50/0.5     |                                            |       |                                    |                |    |                           |                             |                                   | 722-9  |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
| -26.2                              | 25.2  |            |                                            |       |                                    |                |    |                           |                             |                                   |        |     | RUN-1                              |                                                                                                                                                                 |                   | LIMESTONE, boundstone, white (10YR8/1), hard, wet, strong HCl reaction, fossiliferous (Upper Fort Thompson Formation) |  |
| -29.2                              | 28.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-2  |     |                                    | 25.2ft: Switch sampling method to coring                                                                                                                        |                   |                                                                                                                       |  |
| -34.2                              | 33.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-3  |     |                                    | 25.2ft: white (2.5Y8/1), moderately hard to hard, indurated, few vugs, coralline, fossiliferous                                                                 |                   |                                                                                                                       |  |
| -39.2                              | 38.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-4  |     |                                    | 28.2ft: hard, recrystallized calcite                                                                                                                            |                   |                                                                                                                       |  |
| -44.2                              | 43.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-5  |     |                                    | 33.2ft: white (2.5Y8/1, 10YR8/1), trace vugs, trace clayey sand                                                                                                 |                   |                                                                                                                       |  |
| -49.2                              | 48.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-6  |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
| -54.2                              | 53.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-7  |     |                                    | 38.2ft: light gray (10YR7/1), to white (10YR8/1)                                                                                                                |                   |                                                                                                                       |  |
| -58.7                              | 57.7  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-8  |     |                                    |                                                                                                                                                                 |                   |                                                                                                                       |  |
| -59.2                              | 58.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-9  |     |                                    | 43.2ft: white (10YR8/1) to light gray (10YR7/1) to 48.4ft                                                                                                       |                   |                                                                                                                       |  |
| -64.2                              | 63.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-10 |     |                                    | LIMESTONE, boundstone, white (10YR8/1), hard, indurated, trace to few shell molds and casts, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) |                   |                                                                                                                       |  |
| -69.2                              | 68.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-11 |     |                                    | 53.2ft: hard to moderately hard, indurated to moderately indurated, trace vugs, trace fine clayey sand, few shell molds and casts                               |                   |                                                                                                                       |  |
| -74.2                              | 73.2  |            |                                            |       |                                    |                |    |                           |                             |                                   | RUN-12 |     |                                    | 57.7ft: hard, indurated, no vugs                                                                                                                                |                   |                                                                                                                       |  |
|                                    |       |            |                                            |       |                                    |                |    |                           |                             |                                   |        |     |                                    | 58.2ft: white (10YR8/1), to very pale brown (10YR7/4), hard to moderately hard, indurated to moderately indurated, trace vugs                                   |                   |                                                                                                                       |  |
|                                    |       |            |                                            |       |                                    |                |    |                           |                             |                                   |        |     |                                    | 63.2ft: white (10YR8/1), hard, indurated                                                                                                                        |                   |                                                                                                                       |  |
|                                    |       |            |                                            |       |                                    |                |    |                           |                             |                                   |        |     |                                    | 68.2ft: possible interbedded sand layers; based on poor recovery and drill rates                                                                                |                   |                                                                                                                       |  |
|                                    |       |            |                                            |       |                                    |                |    |                           |                             |                                   |        |     |                                    | 73.2ft: white (10YR8/1), to very pale brown                                                                                                                     |                   |                                                                                                                       |  |

TURKEY POINT COL BORE TURKEY POINT GPI TURKEY POINT COL GDT 8/19/08



SHEET 2 OF 2

| BECHTEL PROJECT NO.: 25409         |               |            | MACTEC PROJECT NO.: 6468-07-1950           |       |                              | COUNTY: Miami-Dade                |    |    | GEOLOGIST: G. Pillappa             |     |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
|------------------------------------|---------------|------------|--------------------------------------------|-------|------------------------------|-----------------------------------|----|----|------------------------------------|-----|--------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------|
| SITE DESCRIPTION: Turkey Point COL |               |            | DRILL MACHINE: CME-550 (ATL)               |       |                              | DRILLER: L. Carter/ J. Rosser     |    |    | GROUND WATER (ft)                  |     |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| BORING NO.: B-722                  |               |            | DRILL METHOD: Mud Rotary/ Core             |       |                              | SAMPLE METHODS: SPT/Core          |    |    | 0 HR. NA                           |     |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| GROUND ELEV.: -1.0 ft (NAVD88)     |               |            | NORTHING: 397,434 US ft (NAD83/90)         |       |                              | EASTING: 875,980 US ft (NAD83/90) |    |    | 24 HR. NA                          |     |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| TOTAL DEPTH: 103.2 ft              |               |            | BORING DIAMETER: 4" to 25.0', 3" to 103.2' |       |                              | CASING DEPTH: 4" to 25.0'         |    |    | HAMMER (ID): 140 lb. Auto (MEC-03) |     |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| DATE STARTED: 4/29/08              |               |            | COMPLETED: 4/30/08                         |       |                              | CORE SIZE: HQ3                    |    |    | BITS USED: 2 15/16" Tricone        |     |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | BLOW COUNT |                                            |       | BLOWS PER FOOT               |                                   |    |    |                                    |     | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                          |
|                                    |               | 0.5ft      | 0.5ft                                      | 0.5ft | 0                            | 20                                | 40 | 60 | 80                                 | 100 |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| -75.8                              |               |            |                                            |       | Continued from previous page |                                   |    |    |                                    |     |              |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| -79.2                              | 78.2          |            |                                            |       |                              |                                   |    |    |                                    |     | RUN-13       |     | (10YR7/4), hard to moderately hard, indurated to moderately indurated Limestone, boundstone, white (10YR8/1), hard, indurated, trace to few shell molds and casts, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation) (continued)<br>78.2ft: white (10YR8/1), hard, indurated, few vugs<br>83.2 to 86.2ft: possible interbedded sand layers; based on poor recovery and drill rates<br><br>88.2ft: white (2.5Y8/1)<br><br>93.2ft: white (10YR8/1), soft to hard, friable to indurated, trace vugs, trace clayey sand, possible interbedded sand layers<br><br>98.2ft: hard, few to little shell molds and casts |       |                                          |
| -84.2                              | 83.2          |            |                                            |       |                              |                                   |    |    |                                    |     | RUN-14       |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| -89.2                              | 88.2          |            |                                            |       |                              |                                   |    |    |                                    |     | RUN-15       |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| -94.2                              | 93.2          |            |                                            |       |                              |                                   |    |    |                                    |     | RUN-16       |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
| -99.2                              | 98.2          |            |                                            |       |                              |                                   |    |    |                                    |     | RUN-17       |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                          |
|                                    |               |            |                                            |       |                              |                                   |    |    |                                    |     |              |     | -104.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 103.2 | Boring Terminated at Elevation -104.2 ft |

TURKEY POINT COL BORE TURKEY POINT COL GPI TURKEY POINT COL GDT 8/19/08





SHEET 1 OF 2

|                                    |               |                    |                                      |                                    |                |                                                             |               |                                   |       |                                    |             |                                                                                                                                                                                                                                                                              |  |
|------------------------------------|---------------|--------------------|--------------------------------------|------------------------------------|----------------|-------------------------------------------------------------|---------------|-----------------------------------|-------|------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| BECHTEL PROJECT NO.: 25409         |               |                    |                                      | MACTEC PROJECT NO.: 6468-07-1950   |                |                                                             |               | COUNTY: Miami-Dade                |       | GEOLOGIST: G. Pillappa             |             |                                                                                                                                                                                                                                                                              |  |
| SITE DESCRIPTION: Turkey Point COL |               |                    |                                      | DRILL MACHINE: CME-550 (ATL)       |                |                                                             |               | DRILLER: L. Carter/ J. Rosser     |       |                                    |             | GROUND WATER (ft)<br>0 HR. NA<br>24 HR. NA                                                                                                                                                                                                                                   |  |
| BORING NO.: B-722                  |               |                    |                                      | DRILL METHOD: Mud Rotary/ Core     |                |                                                             |               | SAMPLE METHODS: SPT/Core          |       |                                    |             |                                                                                                                                                                                                                                                                              |  |
| GROUND ELEV.: -1.0 ft (NAVD88)     |               |                    |                                      | NORTHING: 397,434 US ft (NAD83/90) |                |                                                             |               | EASTING: 875,980 US ft (NAD83/90) |       | HAMMER (ID): 140 lb. Auto (MEC-03) |             |                                                                                                                                                                                                                                                                              |  |
| TOTAL DEPTH: 103.2 ft              |               |                    |                                      | CASING DEPTH: 4" to 25.0'          |                |                                                             |               |                                   |       |                                    |             |                                                                                                                                                                                                                                                                              |  |
| DATE STARTED: 4/29/08              |               | COMPLETED: 4/30/08 |                                      | CORE SIZE: HQ3                     |                | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |               |                                   |       |                                    |             |                                                                                                                                                                                                                                                                              |  |
|                                    |               |                    |                                      |                                    |                |                                                             |               |                                   |       |                                    |             |                                                                                                                                                                                                                                                                              |  |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | RUN<br>(ft)        | DRILL<br>RATE<br>(Min/ft)            | RUN<br>REC<br>(ft)<br>%            |                | RQD<br>(ft)<br>%                                            | SAMP.<br>NO.  | STRATA<br>REC<br>(ft)<br>%        |       | RQD<br>(ft)<br>%                   | L<br>O<br>G | DESCRIPTION AND REMARKS                                                                                                                                                                                                                                                      |  |
|                                    |               |                    |                                      |                                    |                |                                                             |               |                                   |       |                                    |             | Begin Coring @ 25.2 ft                                                                                                                                                                                                                                                       |  |
| -26.2                              | 25.2          | 3.0                | 5:16<br>2:12<br>0:54                 | (2.4)<br>80%                       | (1.0)<br>33%   | RUN-1                                                       | (21.1)<br>91% | (14.9)<br>64%                     |       |                                    |             | LIMESTONE, boundstone, white (10YR8/1), hard, wet, strong HCl reaction, fossiliferous (Upper Fort Thompson Formation) (continued)<br>25.2ft: white (2.5Y8/1), moderately hard to hard, indurated, few vugs, coralline, fossiliferous<br>28.2ft: hard, recrystallized calcite |  |
| -29.2                              | 28.2          | 5.0                | 1:02<br>1:04<br>1:18<br>1:22<br>1:25 | (5.0)<br>100%                      | (3.8)<br>76%   | RUN-2                                                       |               |                                   |       |                                    |             |                                                                                                                                                                                                                                                                              |  |
| -34.2                              | 33.2          | 5.0                | 1:21<br>1:56<br>2:10<br>2:43<br>6:29 | (3.7)<br>74%                       | (3.0)<br>60%   | RUN-3                                                       |               |                                   |       |                                    |             | 33.2ft: white (2.5Y8/1, 10YR8/1), trace vugs, trace clayey sand                                                                                                                                                                                                              |  |
| -39.2                              | 38.2          | 5.0                | 1:16<br>1:36<br>1:32<br>1:26<br>1:55 | (4.8)<br>96%                       | (2.1)<br>42%   | RUN-4                                                       |               |                                   |       |                                    |             | 38.2ft: light gray (10YR7/1), to white (10YR8/1)                                                                                                                                                                                                                             |  |
| -44.2                              | 43.2          | 5.0                | 1:52<br>1:49<br>1:45<br>1:49<br>1:37 | (5.0)<br>100%                      | (4.8)<br>96%   | RUN-5                                                       |               |                                   |       |                                    |             | 43.2ft: white (10YR8/1) to light gray (10YR7/1) to 48.4ft                                                                                                                                                                                                                    |  |
| -49.2                              | 48.2          | 5.0                | 1:11<br>1:30<br>1:25<br>1:16<br>1:09 | (4.9)<br>98%                       | (4.9)<br>98%   | RUN-6                                                       | (40.9)<br>75% | (20.6)<br>38%                     | -49.4 |                                    |             | LIMESTONE, boundstone, white (10YR8/1), hard, indurated, trace to few shell molds and casts, fossiliferous, strong HCl reaction (Lower Fort Thompson Formation)                                                                                                              |  |
| -54.2                              | 53.2          | 4.5                | 1:09<br>1:13<br>0:45<br>0:54         | (4.3)<br>96%                       | (3.0)<br>67%   | RUN-7                                                       |               |                                   |       |                                    |             | 53.2ft: hard to moderately hard, indurated to moderately indurated, trace vugs, trace fine clayey sand, few shell molds and casts                                                                                                                                            |  |
| -58.7                              | 57.7          | 0.5                | 1:12/0.5                             | (0.4)<br>80%                       | (0.0)<br>0%    | RUN-8                                                       |               |                                   |       |                                    |             | 57.7ft: hard, indurated, no vugs                                                                                                                                                                                                                                             |  |
| -59.2                              | 58.2          | 5.0                | 0:35/0.5                             | (4.1)<br>82%                       | (2.9)<br>58%   | RUN-9                                                       |               |                                   |       |                                    |             | 58.2ft: white (10YR8/1), to very pale brown (10YR7/4), hard to moderately hard, indurated to moderately indurated, trace vugs                                                                                                                                                |  |
| -64.2                              | 63.2          | 5.0                | 1:34<br>0:43<br>2:56<br>2:04<br>2:32 | (3.7)<br>74%                       | (2.1)<br>42%   | RUN-10                                                      |               |                                   |       |                                    |             | 63.2ft: white (10YR8/1), hard, indurated                                                                                                                                                                                                                                     |  |
| -69.2                              | 68.2          | 5.0                | 2:18<br>1:47<br>2:27<br>1:37<br>0:41 | (1.8)<br>36%                       | (0.6)<br>12%   | RUN-11                                                      |               |                                   |       |                                    |             | 68.2ft: possible interbedded sand layers; based on poor recovery and drill rates                                                                                                                                                                                             |  |
| -74.2                              | 73.2          | 5.0                | 0:39<br>0:27<br>1:03<br>3:04<br>4:03 | (4.9)<br>98%                       | (2.2)<br>44%   | RUN-12                                                      |               |                                   |       |                                    |             | 73.2ft: white (10YR8/1), to very pale brown (10YR7/4), hard to moderately hard, indurated to moderately indurated                                                                                                                                                            |  |
| -79.2                              | 78.2          | 5.0                | 3:39<br>2:04<br>3:47<br>2:49<br>3:44 | (4.7)<br>94%                       | (1.5)<br>30%   | RUN-13                                                      |               |                                   |       |                                    |             | 78.2ft: white (10YR8/1), hard, indurated, few vugs                                                                                                                                                                                                                           |  |
| -84.2                              | 83.2          | 5.0                | 2:35<br>1:52<br>1:41<br>1:53<br>2:36 | (2.3)<br>46%                       | (1.8)<br>36%   | RUN-14                                                      |               |                                   |       |                                    |             | 83.2 to 86.2ft: possible interbedded sand layers; based on poor recovery and drill rates                                                                                                                                                                                     |  |
| -89.2                              | 88.2          | 5.0                | 0:36<br>0:04<br>0:32<br>2:07<br>3:08 | (4.3)<br>86%                       | (1.8)<br>36%   | RUN-15                                                      |               |                                   |       |                                    |             | 88.2ft: white (2.5Y8/1)                                                                                                                                                                                                                                                      |  |
| -94.2                              | 93.2          | 5.0                | 2:27<br>1:44<br>1:27<br>2:24<br>0:45 | (1.7)<br>34%                       | (0.0)<br>0%    | RUN-16                                                      |               |                                   |       |                                    |             | 93.2ft: white (10YR8/1), soft to hard, friable to indurated, trace vugs, trace clayey sand, possible interbedded sand layers                                                                                                                                                 |  |
| -99.2                              | 98.2          | 5.0                | 0:39<br>0:09<br>1:51<br>0:27<br>0:56 | (4.0)<br>(0.0)                     | (0.0)<br>(0.0) | RUN-17                                                      |               |                                   |       |                                    |             | 98.2ft: hard, few to little shell molds and casts                                                                                                                                                                                                                            |  |
|                                    |               | 5.0                | 0:47<br>0:30                         | (4.0)<br>(0.0)                     | (0.0)<br>(0.0) | RUN-17                                                      |               |                                   |       |                                    |             |                                                                                                                                                                                                                                                                              |  |

TURKEY POINT COL CORE TURKEY POINT GFI TURKEY POINT COL GDT 8/19/08

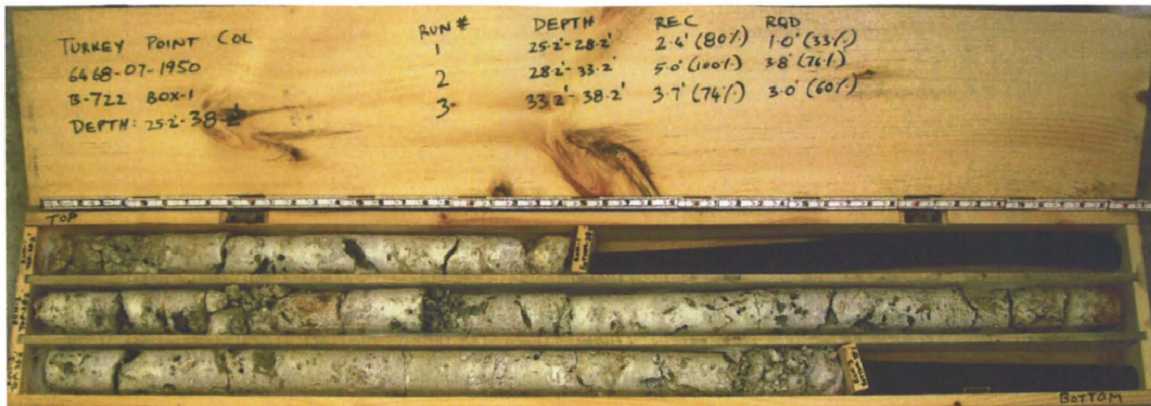


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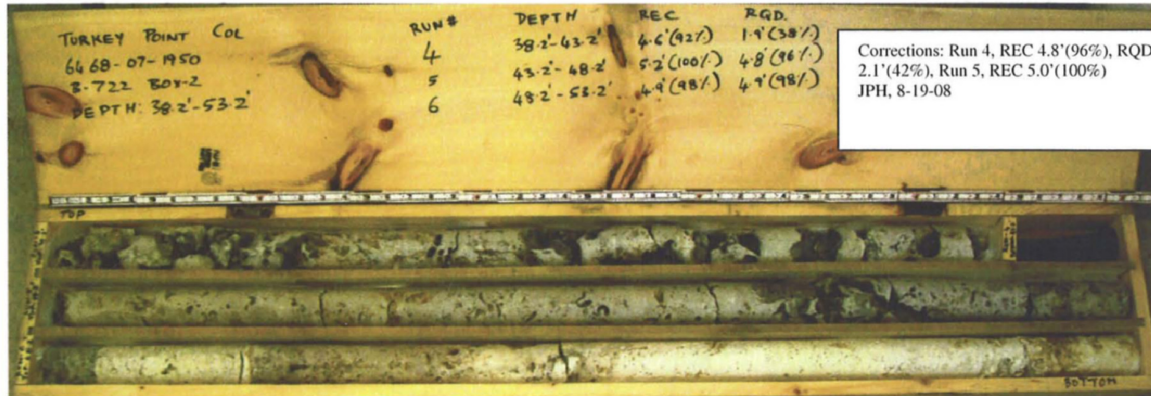
|                                    |                                    |                                    |                                                             |
|------------------------------------|------------------------------------|------------------------------------|-------------------------------------------------------------|
| BECHTEL PROJECT NO.: 25409         | MACTEC PROJECT NO.: 6468-07-1950   | COUNTY: Miami-Dade                 | GEOLOGIST: G. Pillappa                                      |
| SITE DESCRIPTION: Turkey Point COL | DRILL MACHINE: CME-550 (ATL)       | DRILLER: L. Carter/ J. Rosser      | GROUND WATER (ft)                                           |
| BORING NO.: B-722                  | DRILL METHOD: Mud Rotary/ Core     | SAMPLE METHODS: SPT/Core           | 0 HR. NA                                                    |
| GROUND ELEV.: -1.0 ft (NAVD88)     | NORTHING: 397,434 US ft (NAD83/90) | EASTING: 875,980 US ft (NAD83/90)  | 24 HR. NA                                                   |
| TOTAL DEPTH: 103.2 ft              | CASING DEPTH: 4" to 25.0'          | HAMMER (ID): 140 lb. Auto (MEC-03) |                                                             |
| DATE STARTED: 4/29/08              | COMPLETED: 4/30/08                 | CORE SIZE: HQ3                     | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |

| ELEV.<br>(ft) | DEPTH<br>(ft) | RUN<br>(ft) | DRILL<br>RATE<br>(Min/ft) | REC.<br>(ft)<br>% | RQD<br>(ft)<br>% | SAMP.<br>NO. | REC.<br>(ft)<br>% | RQD<br>(ft)<br>% | STRATA<br>(ft)<br>% | LOG | DESCRIPTION AND REMARKS               |
|---------------|---------------|-------------|---------------------------|-------------------|------------------|--------------|-------------------|------------------|---------------------|-----|---------------------------------------|
|               |               |             |                           |                   |                  |              |                   |                  |                     |     | Continued from previous page          |
| -104.2        | 103.2         |             | 0:46<br>0:43<br>1:04      | 80%               | 0%               |              |                   |                  |                     |     | Coring Terminated at Elevation -104.2 |

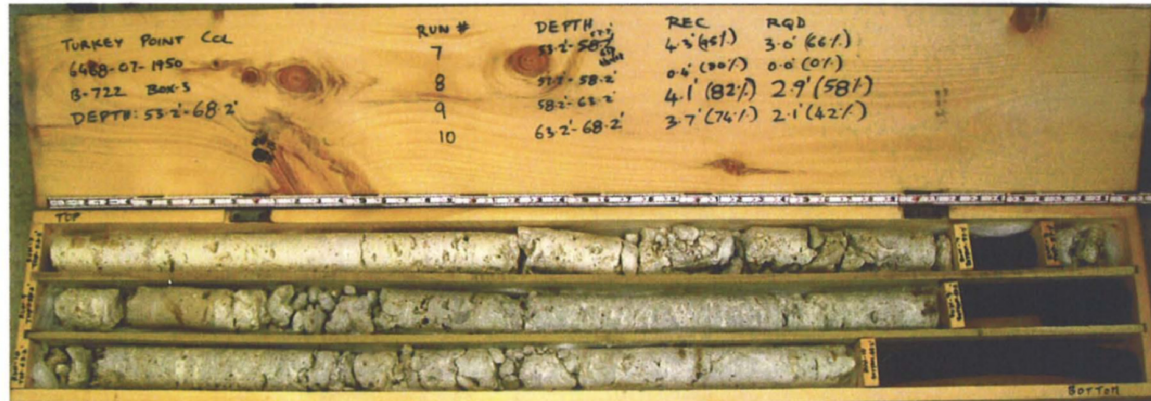
TURKEY POINT COL CORE TURKEY POINT GPJ TURKEY POINT COL.GDT 8/19/08



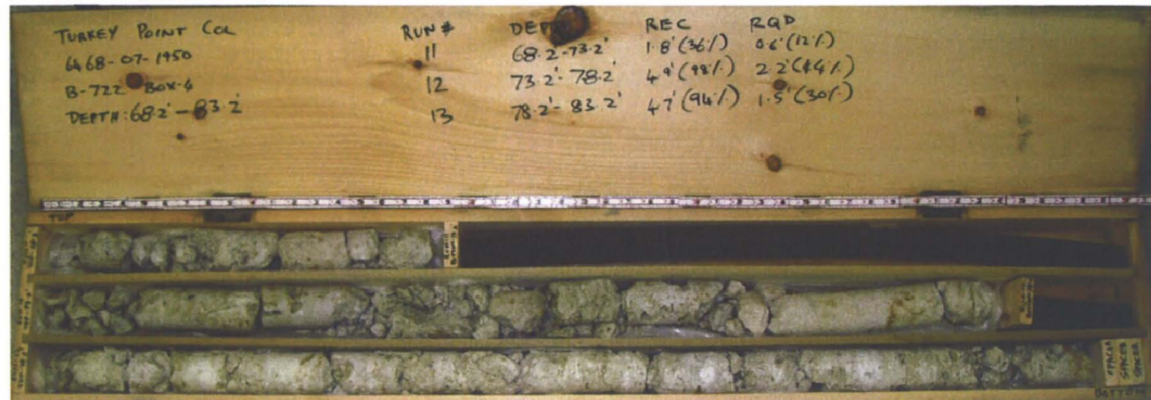
B-722 - Box 1



B-722 - Box 2



B-722 - Box 3



B-722 - Box 4



B-722 - Box 5





## GEOTECHNICAL BORING LOG

Prepared By 277 Date 5-30-08Checked By HTM 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-723                  |               | DRILL METHOD: Mud Rotary/ Core             |       | SAMPLE METHODS: SPT/Core               |                | 0 HR. NA                        |    |    |    |              |          |     |                                                                                                                                 |
| GROUND ELEV.: -1.0 ft (NAVD88)     |               | NORTHING: 397,421 US ft (NAD83/90)         |       | EASTING: 875,675 US ft (NAD83/90)      |                | 24 HR. NA                       |    |    |    |              |          |     |                                                                                                                                 |
| TOTAL DEPTH: 100.6 ft              |               | BORING DIAMETER: 4" to 25.1', 3" to 100.6' |       | CASING DEPTH: 4" to 25.1'              |                | HAMMER (ID): 140 lb. Auto (M06) |    |    |    |              |          |     |                                                                                                                                 |
| DATE STARTED: 4/22/08              |               | COMPLETED: 4/23/08                         |       | CORE SIZE: HQ3                         |                | BITS USED: 2 7/8" Roller Cone   |    |    |    |              |          |     |                                                                                                                                 |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | BLOW COUNT                                 |       |                                        | BLOWS PER FOOT |                                 |    |    |    | SAMP.<br>NO. | MOI      | LOG | SOIL AND ROCK DESCRIPTION                                                                                                       |
|                                    |               | 0.5ft                                      | 0.5ft | 0.5ft                                  | 0              | 20                              | 40 | 60 | 80 | 100          |          |     |                                                                                                                                 |
| -1.0                               |               |                                            |       |                                        | Ground Surface |                                 |    |    |    |              |          |     | -1.0 0.0                                                                                                                        |
| -1.0                               | 0.0           | WOH                                        | WOH   | WOH                                    | 0              |                                 |    |    |    |              | 723-1    |     | MUCK, very dark grayish brown (2.5Y3/2), very soft to soft, trace fine grained sand, strong HCl reaction                        |
| -3.7                               | 2.7           | WOH                                        | WOH   | 4                                      | 4              |                                 |    |    |    |              | 723-2A&B |     |                                                                                                                                 |
| -6.1                               | 5.1           | 6                                          | 6     | 9                                      | 15             |                                 |    |    |    |              | 723-3    |     | LIMESTONE, boundstone, white (2.5Y8/1), very soft, wet, few fine grained sand, strong HCl reaction, oolitic (Miami Formation)   |
| -8.6                               | 7.6           | 2                                          | 18    | 6                                      | 24             |                                 |    |    |    |              | 723-4    |     | 5.1ft: some fine grained sand                                                                                                   |
| -11.0                              | 10.0          | 4                                          | 3     | 6                                      | 9              |                                 |    |    |    |              | 723-5    |     | 7.6ft: soft                                                                                                                     |
| -13.2                              | 12.2          | 9                                          | 16    | 13                                     | 29             |                                 |    |    |    |              | 723-6    |     | 10.0ft: very soft, little fine grained sand                                                                                     |
| -16.1                              | 15.1          | 20                                         | 26    | 19                                     | 45             |                                 |    |    |    |              | 723-7    |     | 12.2ft: soft, few sand                                                                                                          |
| -22.9                              | 21.9          | 6                                          | 9     | 23                                     | 32             |                                 |    |    |    |              | 723-8    |     | 15.1ft: medium hard, trace fine to medium grained sand                                                                          |
| -27.3                              | 26.3          | 4                                          | 18    | 50/0.3                                 | 68/0.8         |                                 |    |    |    |              | 723-9    |     | -26.0 25.0                                                                                                                      |
| -28.6                              | 27.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-1    |     | LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation) |
| -31.6                              | 30.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-2    |     | 27.6ft: Switch sampling method to coring                                                                                        |
| -36.6                              | 35.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-3    |     | 27.6ft: moderately hard to hard, moderately indurated to indurated, little vugs, recrystallized calcite                         |
| -41.6                              | 40.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-4    |     | 35.6ft: hard, indurated, coralline                                                                                              |
| -46.6                              | 45.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-5    |     | 45.6ft: gray (2.5Y6/1)                                                                                                          |
| -51.6                              | 50.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-6    |     | -49.5 48.5                                                                                                                      |
| -56.6                              | 55.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-7    |     | LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)        |
| -61.6                              | 60.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-8    |     | 55.6ft: medium hard to moderately hard, friable to moderately indurated, few sand                                               |
| -66.6                              | 65.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-9    |     | 60.6ft: medium hard to hard, friable to indurated, few to little sand                                                           |
| -71.6                              | 70.6          |                                            |       |                                        |                |                                 |    |    |    |              | RUN-10   |     | 70.6ft: trace vugs, trace to few sand                                                                                           |

TURKEY POINT COL BORE TURKEY POINT COL GDT 5:30:08



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| 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-723                  |               |            | DRILL METHOD: Mud Rotary/ Core             |       |                              | SAMPLE METHODS: SPT/Core               |    |    | 0 HR. NA                        |     |              |     |                           |                                                                                                                                            |                                          |  |
| GROUND ELEV.: -1.0 ft (NAVD88)     |               |            | NORTHING: 397,421 US ft (NAD83/90)         |       |                              | EASTING: 875,675 US ft (NAD83/90)      |    |    | 24 HR. NA                       |     |              |     |                           |                                                                                                                                            |                                          |  |
| TOTAL DEPTH: 100.6 ft              |               |            | BORING DIAMETER: 4" to 25.1', 3" to 100.6' |       |                              | CASING DEPTH: 4" to 25.1'              |    |    | HAMMER (ID): 140 lb. Auto (M06) |     |              |     |                           |                                                                                                                                            |                                          |  |
| DATE STARTED: 4/22/08              |               |            | COMPLETED: 4/23/08                         |       |                              | CORE SIZE: HQ3                         |    |    | BITS USED: 2 7/8" Roller Cone   |     |              |     |                           |                                                                                                                                            |                                          |  |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | BLOW COUNT |                                            |       | BLOWS PER FOOT               |                                        |    |    |                                 |     | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                                                            |                                          |  |
|                                    |               | 0.5ft      | 0.5ft                                      | 0.5ft | 0                            | 20                                     | 40 | 60 | 80                              | 100 |              |     |                           |                                                                                                                                            |                                          |  |
| -75.8                              |               |            |                                            |       | Continued from previous page |                                        |    |    |                                 |     |              |     |                           |                                                                                                                                            |                                          |  |
| -76.6                              | 75.6          |            |                                            |       |                              |                                        |    |    |                                 |     | RUN-11       |     |                           | LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation) (continued)       |                                          |  |
| -81.6                              | 80.6          |            |                                            |       |                              |                                        |    |    |                                 |     | RUN-12       |     |                           | 75.6ft: moderately indurated to indurated, trace shell molds and casts                                                                     |                                          |  |
| -86.6                              | 85.6          |            |                                            |       |                              |                                        |    |    |                                 |     | RUN-13       |     |                           | 80.6ft: medium hard to hard, friable to indurated, few vugs, some fine grained sand, few shell molds and casts                             |                                          |  |
| -91.6                              | 90.6          |            |                                            |       |                              |                                        |    |    |                                 |     | RUN-14       |     |                           | 85.6ft: little fine grained sand, trace vugs                                                                                               |                                          |  |
| -96.6                              | 95.6          |            |                                            |       |                              |                                        |    |    |                                 |     | RUN-15       |     |                           | 90.6ft: hard, indurated                                                                                                                    |                                          |  |
|                                    |               |            |                                            |       |                              |                                        |    |    |                                 |     |              |     |                           | 95.6ft: moderately hard to hard, moderately indurated to indurated, possible interbedded sand layers: based on drilling rates and recovery |                                          |  |
|                                    |               |            |                                            |       |                              |                                        |    |    |                                 |     |              |     |                           | -101.6                                                                                                                                     | Boring Terminated at Elevation -101.6 ft |  |
|                                    |               |            |                                            |       |                              |                                        |    |    |                                 |     |              |     |                           |                                                                                                                                            | 100.6                                    |  |

TURKEY POINT COL BORE TURKEY POINT GPJ TURKEY POINT COL GDI 5/30/08



SHEET 1 OF 1

|                                    |               |                    |                                      |                                    |              |                                                             |               |                                        |  |                                 |             |                                                                                                                                             |  |
|------------------------------------|---------------|--------------------|--------------------------------------|------------------------------------|--------------|-------------------------------------------------------------|---------------|----------------------------------------|--|---------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|--|
| 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-723                  |               |                    |                                      | DRILL METHOD: Mud Rotary/ Core     |              |                                                             |               | SAMPLE METHODS: SPT/Core               |  |                                 |             | 0 HR. NA                                                                                                                                    |  |
| GROUND ELEV.: -1.0 ft (NAVD88)     |               |                    |                                      | NORTHING: 397,421 US ft (NAD83/90) |              |                                                             |               | EASTING: 875,675 US ft (NAD83/90)      |  |                                 |             | 24 HR. NA                                                                                                                                   |  |
| TOTAL DEPTH: 100.6 ft              |               |                    |                                      | CASING DEPTH: 4" to 25.1'          |              |                                                             |               |                                        |  | HAMMER (ID): 140 lb. Auto (M06) |             |                                                                                                                                             |  |
| DATE STARTED: 4/22/08              |               | COMPLETED: 4/23/08 |                                      | CORE SIZE: HQ3                     |              | CORE BARREL TYPE: Triple Tube Wireline (Split inner liners) |               |                                        |  |                                 |             |                                                                                                                                             |  |
|                                    |               |                    |                                      |                                    |              |                                                             |               |                                        |  |                                 |             |                                                                                                                                             |  |
| ELEV.<br>(ft)                      | DEPTH<br>(ft) | RUN<br>(ft)        | DRILL<br>RATE<br>(Min/ft)            | RUN<br>REC<br>(ft)<br>%            |              | RQD<br>(ft)<br>%                                            | SAMP.<br>NO.  | STRATA<br>REC<br>(ft)<br>%             |  | RQD<br>(ft)<br>%                | L<br>O<br>G | DESCRIPTION AND REMARKS                                                                                                                     |  |
|                                    |               |                    |                                      |                                    |              |                                                             |               |                                        |  |                                 |             | Begin Coring @ 27.6 ft                                                                                                                      |  |
| -28.6                              | 27.6          | 3.0                | 1:28<br>0:48<br>0:58                 | (3.0)<br>100%                      | (2.4)<br>80% | RUN-1                                                       | (15.8)<br>76% | (10.7)<br>51%                          |  |                                 |             | LIMESTONE, boundstone, white (2.5Y8/1), hard, wet, strong HCl reaction, trace fine grained sand (Upper Fort Thompson Formation) (continued) |  |
| -31.6                              | 30.6          | 5.0                | 0:43<br>1:31<br>0:57<br>1:15<br>0:49 | (4.0)<br>80%                       | (2.0)<br>40% | RUN-2                                                       |               |                                        |  |                                 |             | 27.6ft: moderately hard to hard, moderately indurated to indurated, little vugs, recrystallized calcite                                     |  |
| -36.6                              | 35.6          | 5.0                | 0:19<br>0:10<br>0:12<br>0:20<br>0:54 | (1.5)<br>30%                       | (0.9)<br>18% | RUN-3                                                       |               |                                        |  |                                 |             | 35.6ft: hard, indurated, coralline                                                                                                          |  |
| -41.6                              | 40.6          | 5.0                | 1:10<br>1:01<br>0:51<br>0:52<br>0:55 | (4.4)<br>88%                       | (2.9)<br>58% | RUN-4                                                       |               |                                        |  |                                 |             |                                                                                                                                             |  |
| -46.6                              | 45.6          | 5.0                | 1:28<br>1:47<br>1:59<br>1:56<br>1:23 | (4.9)<br>98%                       | (4.5)<br>90% | RUN-5                                                       |               |                                        |  |                                 |             | 45.6ft: gray (2.5Y6/1)                                                                                                                      |  |
| -51.6                              | 50.6          | 5.0                | 1:52<br>1:44<br>1:52<br>1:50<br>1:15 | (4.8)<br>96%                       | (4.0)<br>80% | RUN-6                                                       | (36.1)<br>69% | (14.4)<br>28%                          |  |                                 |             | LIMESTONE, boundstone, white (2.5Y8/1), hard, indurated, trace vugs, strong HCl reaction (Lower Fort Thompson Formation)                    |  |
| -56.6                              | 55.6          | 5.0                | 0:34<br>1:44<br>1:10<br>1:05<br>0:50 | (3.7)<br>74%                       | (0.0)<br>0%  | RUN-7                                                       |               |                                        |  |                                 |             | 55.6ft: medium hard to moderately hard, friable to moderately indurated, few sand                                                           |  |
| -61.6                              | 60.6          | 5.0                | 0:43<br>2:21<br>1:01<br>0:50<br>1:17 | (3.5)<br>70%                       | (1.6)<br>32% | RUN-8                                                       |               |                                        |  |                                 |             | 60.6ft: medium hard to hard, friable to indurated, few to little sand                                                                       |  |
| -66.6                              | 65.6          | 5.0                | 0:11<br>0:19<br>0:20<br>1:24<br>1:12 | (2.8)<br>56%                       | (0.0)<br>0%  | RUN-9                                                       |               |                                        |  |                                 |             |                                                                                                                                             |  |
| -71.6                              | 70.6          | 5.0                | 1:26<br>1:11<br>0:31<br>2:08<br>1:24 | (3.9)<br>78%                       | (1.9)<br>38% | RUN-10                                                      |               |                                        |  |                                 |             | 70.6ft: trace vugs, trace to few sand                                                                                                       |  |
| -76.6                              | 75.6          | 5.0                | 1:51<br>1:56<br>0:59<br>1:01<br>1:29 | (4.7)<br>94%                       | (2.2)<br>44% | RUN-11                                                      |               |                                        |  |                                 |             | 75.6ft: moderately indurated to indurated, trace shell molds and casts                                                                      |  |
| -81.6                              | 80.6          | 5.0                | 1:07<br>1:18<br>1:35<br>0:46<br>0:47 | (4.5)<br>90%                       | (1.6)<br>32% | RUN-12                                                      |               |                                        |  |                                 |             | 80.6ft: medium hard to hard, friable to indurated, few vugs, some fine grained sand, few shell molds and casts                              |  |
| -86.6                              | 85.6          | 5.0                | 1:00<br>2:00<br>1:49<br>1:05<br>0:31 | (4.3)<br>86%                       | (1.1)<br>22% | RUN-13                                                      |               |                                        |  |                                 |             | 85.6ft: little fine grained sand, trace vugs                                                                                                |  |
| -91.6                              | 90.6          | 5.0                | 1:09<br>0:41<br>0:52<br>1:34<br>1:14 | (1.3)<br>26%                       | (0.0)<br>0%  | RUN-14                                                      |               |                                        |  |                                 |             | 90.6ft: hard, indurated                                                                                                                     |  |
| -96.6                              | 95.6          | 5.0                | 2:02<br>0:55<br>0:44<br>0:28<br>0:46 | (0.6)<br>12%                       | (0.0)<br>0%  | RUN-15                                                      |               |                                        |  |                                 |             | 95.6ft: moderately hard to hard, moderately indurated to indurated, possible interbedded sand layers; based on drilling rates and recovery  |  |
| -101.6                             | 100.6         |                    |                                      |                                    |              |                                                             |               |                                        |  |                                 |             | Coring Terminated at Elevation -101.6                                                                                                       |  |

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