

**Table 2.** Locations, Water Depths, and Sample Description of Sedimentary Rocks Collected by Submersible in 2003, Atlantis Massif, South Wall and Lost City Areas

| Sample    | Depth, m | Latitude, N | Longitude, W | Sample Description                                                                                                                                                                                      |
|-----------|----------|-------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |          |             |              | <i>Breccias</i>                                                                                                                                                                                         |
| 3863-1403 | 799      | 30°7.536'   | 42°7.398'    | Clast supported, variably rounded, poorly sorted clasts of basalt, up to 20 cm in length.                                                                                                               |
| 3865-1250 | 796      | 30°7.458'   | 42°7.224'    | Matrix supported; angular to subrounded, poorly sorted clasts of basalt and minor serpentinite/talc schist, up to 10 cm in length.                                                                      |
| 3867-1116 | 746      | 30°7.500'   | 42°7.146'    | Matrix supported (fossil-rich): Variably rounded, poorly sorted clasts of basalt, up to 3 cm in diameter.                                                                                               |
| 3872-1347 | 798      | 30°7.470'   | 42°7.140'    | Pelagic carbonate infilling in shear zone with abundant lithic fragments of serpentinite and talc-schist, weak foliation.                                                                               |
| 3873-1137 | 943      | 30°7.422'   | 42°7.830'    | Matrix supported, with multiple carbonate infillings and local cavities; semiangular, poorly sorted clasts of variably altered basalt, up to 10 cm in length.                                           |
| 3873-1343 | 923      | 30°7.332'   | 42°7.686'    | Matrix supported; angular, poorly sorted clasts of serpentinite and talc schist up to 3 cm in length; weak foliation.                                                                                   |
| 3873-1440 | 879      | 30°7.482'   | 42°7.518'    | Next to sample 3873-1344.<br>Clast supported, poorly lithified, variably rounded, clasts of mylonitic gabbro up to 10 cm in length, fossil-rich matrix with abundant macrofauna (coral dominated).      |
| 3880-1201 | 794      | 30°7.278'   | 42°7.122'    | Serpentinite breccia; poorly sorted, angular-subangular serpentinite clasts, up to 15 cm long in carbonate matrix with abundant serpentinite debris <1 cm in diameter. Resembles cemented talus debris. |
|           |          |             |              | <i>Sedimentary Carbonates</i>                                                                                                                                                                           |
| 3862-1549 | 754      | 30°7.464'   | 42°7.158'    | Pelagic limestone at top of scarp; well lithified but with cavities; abundant micro- and macrofauna debris and sand-sized lithic fragments.                                                             |
| 3863-1811 | 787      | 30°7.476'   | 42°7.152'    | Bioclastic limestone; highly porous and with cavities but well lithified, abundant micro- and macrofauna debris, single fossilized corals, multiple sedimentary carbonate generations.                  |
| 3867-1121 | 746      | 30°7.482'   | 42°7.140'    | Chalk, top of scarp; fossil-rich, minor lithic fragments.                                                                                                                                               |
| 3867-1123 | 746      | 30°7.488'   | 42°7.164'    | Pelagic limestone at top of scarp; fossil-rich, well lithified with cavities, minor lithic fragments.                                                                                                   |
| 3873-1203 | 962      | 30°7.356'   | 42°7.806'    | Bioclastic carbonate infilling in basement; inhomogeneous lithification, fossil-rich, sponge-like network of cavities partly filled with soft sediment.                                                 |
| 3873-1233 | 956      | 30°7.338'   | 42°7.806'    | Bioclastic carbonate infilling in basement; fossil-rich, well lithified, minor lithic fragments, sponge-like porous surface with sediment-filled cavities.                                              |
| 3876-1309 | 774      | 30°7.656'   | 42°6.834'    | Foraminifera-rich chalk at top of scarp, semiconsolidated.                                                                                                                                              |
| 3877-1214 | 1105     | 30°7.032'   | 42°7.122'    | Foraminifera-rich carbonate infilling in basement; semiconsolidated, serpentinite lithic fragments.                                                                                                     |