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## INDIAN RIVER COUNTY

### BEACH SAMPLE DESCRIPTIONS

Beach Samples IR-01-SS to IR-24-BB

Worked By: Michelle Ladle

Samples Described 01/20/09 through 02/09/09

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#### Beach Sample Location IR-01

##### IR-01-SS

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-30%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoids

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##### IR-01-BB

Sand; Very Light Orange to Grayish Brown; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%; Fossils: Fossil Fragments, Mollusks, Barnacles

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#### Beach Sample Location IR-02

##### IR-02-SS

Sand; Very Light Orange to Grayish Brown; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%; Fossils: Fossil Fragments, Mollusks, Barnacles

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##### IR-02-BB

Sand; Light Gray to Light Olive Gray; Grain Size: Fine; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Echinoids, Miliolids, Plant Remains

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#### Beach Sample Location IR-03

##### IR-03-SS

Sand; Very Light Orange to Light Olive Gray; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Miliolids

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##### IR-03-BB

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Calcilutite-02%; Fossils: Fossil Fragments, Mollusks, Barnacles; Plant Remains, Miliolids

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#### Beach Sample Location IR-04

##### IR-04-SS

Shell Bed; Grayish Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%; Fossils: Fossil Fragments, Mollusks

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##### IR-04-BB

Shell Bed; Grayish Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%, Calcilutite-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoids, Miliolids

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#### Beach Sample Location IR-05

##### IR-05

Sand; Very Light Orange to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-01%; Fossils: Fossil Fragments

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#### Beach Sample Location IR-06

##### IR-06-SS

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Plant Remains-07%; Fossils: Fossil Fragments, Bryozoa, Miliolids

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##### IR-06-BB

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-01%; Fossils: Fossil Fragments, Bryozoa, Benthic Foraminifera

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#### Beach Sample Location IR-07

##### IR-07

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-04%; Fossils: Fossil Fragments, Miliolids

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#### Beach Sample Location IR-08

##### IR-08

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-22%, Heavy Minerals-05%; Fossils: Fossil Fragments

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#### Beach Sample Location IR-09

##### IR-09-SS

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-02%; Fossils: Fossil Fragments, Miliolids

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##### IR-09-BB

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-10**

#### **IR-10-SS**

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-03%; Fossils: Fossil Fragments

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#### **IR-10-BB**

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Calcilutite-02%, Heavy Minerals-01%, Plant Remains-<1%; Fossils: Fossil Fragments, Mollusks, Fossil Molds

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### **Beach Sample Location IR-11**

#### **IR-11-SS**

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-06%; Fossils: Fossil Fragments

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#### **IR-11-BB**

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Very Fine to Granule; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Calcilutite-02%, Heavy Minerals-01%, Calcite-<1%; Fossils: Fossil Fragments, Mollusks; Quartz and Calcite Crystals in Micritic Matrix with Casts

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### **Beach Sample Location IR-12**

#### **IR-12-SS**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Very Fine to Very Coarse; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-01%; Fossils: Fossil Fragments

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#### **IR-12-BB**

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Very Fine to Very Coarse; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-05%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-13**

#### **IR-13-SS**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-03%; Fossils: Fossil Fragments

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#### **IR-13-BB**

Sand; Very Light Orange to Dark Yellowish Brown; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-15%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-14**

#### **IR-14-SS**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-03%; Fossils: Fossil Fragments

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#### **IR-14-BB**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-03%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-15**

#### **IR-15-SS**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments

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#### **IR-15-BB**

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Very Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Echinoids

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### **Beach Sample Location IR-16**

#### **IR-16**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-01%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-17**

#### **IR-17**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Very Fine to Very Coarse; Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-01%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-18**

#### **IR-18-SS**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-05%; Fossils: Fossil Fragments

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#### **IR-18-BB**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Granule; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles

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### **Beach Sample Location IR-19**

#### **IR-19-SS**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-03%; Fossils: Fossil Fragments

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#### **IR-19-MB**

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-28%, Heavy Minerals-04%; Fossils: Fossil Fragments

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#### **IR-19-BB**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-02%, Plant Remains-<1%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-20**

#### **IR-20-SS**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments

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#### **IR-20-MB**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments

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#### **IR-20-BB**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-21**

#### **IR-21-SS**

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Miliolids

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#### **IR-21-BB**

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Heavy Minerals-<1%, Plant Remains-<1%; Fossils: Fossil Fragments, Mollusks, Bryozoa, Echinoids, Miliolids

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### **Beach Sample Location IR-22**

#### **IR-22-SS**

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-02%; Fossils: Fossil Fragments

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#### **IR-22-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-01%; Fossils: Fossil Fragments

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### **Beach Sample Location IR-23**

#### **IR-23-SS**

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments

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#### **IR-23-BB**

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Miliolids

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### **Beach Sample Location IR-24**

#### **IR-24-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Miliolids

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#### **IR-24-BB**

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Miliolids

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