

LEE COUNTY, FLORIDA

SHORE PROTECTION PROJECT

GASPARILLA ISLAND SEGMENT

Final Integrated Section 934 Report and Environmental Assessment

APPENDIX G

Environmental

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May 2018



**US Army Corps
of Engineers**
Jacksonville District

LEE COUNTY, FLORIDA

SHORE PROTECTION PROJECT GASPARILLA ISLAND SEGMENT

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APPENDIX G

Environmental

Attachment 1 – Section 404(b) Evaluation

May 2018



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SECTION 404(b) (1) EVALUATION

LEE COUNTY, FLORIDA SHORE PROTECTION PROJECT GASPARILLA ISLAND SEGMENT

I. Project Description

a. Location. The proposed project will be constructed on Gasparilla Island, Lee County, Florida. Lee County is located on the lower gulf coast of Florida, about 90 miles south of the entrance to Tampa Bay. The 44-mile Gulf coastline of the county consists of all, or part of, seven coastal barrier islands and several smaller islands separated from the mainland by shallow tidal lagoons. Gasparilla Island is bounded on the north by Gasparilla Pass and on the south by Boca Grande Channel. The Gulf shore of the island is about 6.5 miles in length. Natural ground elevations are generally less than ten feet above Mean Low Water (MLW).

b. General Description. The presently authorized Gasparilla Island Segment of the Lee County Florida Shore Protection Project consists of maintaining approximately 2.8 miles of beach between Lee County, Florida Department of Environmental Protection (FDEP) reference monument R-10.5 (R-11 plus a 1,200 foot long north extending taper) and R-24.5 (R-24 plus a 600 foot long south extending taper). Figure 1-1 within the main report shows the project area and limits.

Beach quality sand for this project will be dredged from an offshore borrow site. The design template consists of a 20 foot extension of the 1995 mean high water level baseline at elevation +5 feet (ft) above MLW (+3.75 ft-NAVD88); a foreshore slope of 1V:15H transitioning to a nearshore slope of 1V:25H from MLW extending out to the intersection with the existing profile.

c. Authority and Purpose. The Lee County, Florida, Beach Erosion Control Project, a single purpose project, was authorized under the provisions of Section 201 of the 1965 River and Harbor and Flood Control Act (PL 89-298) by Senate Resolution dated December 17, 1970, and House Resolution dated December 15, 1970. This authority was amended by Section 131 of the Water Resource Development Act of 1976 (PL 94-587). The project was modified by section 309 of WRDA 2000 to authorize the Secretary to carry out the authorized project in accordance with Section 206 of WRDA 1992, allowing for non-federal interests to design and construct the authorized project and allowing for reimbursement of the Federal share of the cost. The purpose of the proposed action is to reduce loss of public beach front to continuing erosional forces and to prevent or reduce periodic damages and potential risk to life, health, and property in the developed lands adjacent to the beach.

d. General Description of Dredged or Fill Material.

(1) General Characteristics of Material. The following existing beach information was taken from "Lee County Shore Protection Project Gasparilla Island Segment: Sand Source Report," prepared for Lee County, Florida, prepared by Humiston and Moore

Engineers on August, 2000. Samples were collected at intervals from the edge of vegetation to the Mean Low Water (MLW) line to obtain a composite that would be representative of the dune, berm, and beach face. The composite sample classifies the sediments as clean, poorly-graded, fine to medium grained quartz sands with a mean grain size of 0.54 mm or 0.90 phi, and a standard deviation of 1.06 phi. The percentage of fines passing the # 230 sieve is 0 percent. Visual shell contents and Munsell Color values were not reported.

In response to storm damage sustained in 2012, approximately 457,824 cubic yards of material were dredged from an offshore sediment source and placed between Florida Department of Environmental Protection (FDEP) reference monuments R-11 and R-25 on Gasparilla Island. Dredging operations commenced on 20 October 2013 and ceased on 30 January 2014. The following existing beach information was taken from "Permit File No. 0174403-001-JC, Gasparilla Island Beach Restoration Project, Lee County, Post-Fill Sampling Report," prepared by the USACE on February 24, 2014. The test results characterized the placed material as well graded, medium grained sand with an average visual shell of 39.5 percent, ranging from 26.3 to 55.4 percent. The average grain size of the composite post-fill beach was 0.47 mm (1.13 phi), and the average standard deviation (sorting) was 1.34 phi. The amount of fines passing the #230 sieve averaged 0.33 percent. The typical dry Munsell color of the sand was 2.5Y 8/1, or white.

(2) Quantity of Material. The average renourishment volume is approximately 617,000 cy, and the average expected renourishment interval is 22 years.

(3) Source of Material. Offshore borrow site locally referred to as the "Gasparilla Shoal".

e. Description of the proposed Borrow Site.

(1) Location and Size. The borrow site is located within the Gulf of Mexico, and is centered about 1.85 miles offshore the southern tip of Gasparilla Island, Lee County, and south of FDEP reference monument R-25 and adjacent to Boca Grande Pass. Rectangular in shape, the sand source encompasses approximately 425 acres.

(2) Type of Site. The borrow site is a sand shoal that lies in water depths of approximately 6 to 18 feet. The material within the proposed borrow site is compatible with the beach placement area and is in compliance with FDEP's "Sand Rule" guidelines.

(3) Type of Habitat. The borrow area is characterized by a sandy bottom. There are no known seagrass beds or rock outcrops in the borrow area.

(4) Timing and Duration of Dredging. Project construction is proposed for the year 2029. Beach placement is estimated to be accomplished over a 3-month period. In reality, project construction could vary significantly depending on erosion and storm events.

f. Description of Proposed Fill Site.

(1) Size and Location. The beach renourishment area includes 2.8 miles of shoreline on Gasparilla Island.

(2) Type of Site. The Gasparilla Island shoreline is a sandy beach flanked by development. Natural ground elevations are generally under 10 feet MLW. Existing hardened shoreline features in the project area are listed below, relative to FDEP shoreline monuments:

Rock groin R-13.6

Pre-cast groins R-14.5 to R-15.3

Seawall R-10.3 to R-15.4

Seawall/groins R-18

(3) Type of Habitat. The habitat of the fill site includes supratidal dry sandy beach, intertidal sandy swash zone, and subtidal sandy areas. A vegetated dune exists along some portions of the project area as well. The area beyond the dune is developed.

(4) Timing and Duration of Discharge. The project is presently planned for the months of December through March to avoid peak sea turtle nesting season. However, it may be necessary to construct the project between April and November due to planning and cost constraints. Beach restoration and periodic nourishment, if performed from May to October, could cover up nests and interfere with or prevent the natural hatching process. A turtle nest monitoring and relocation program will be established and implemented in the event that construction is performed during nesting season. The duration of discharge is expected to be about 3 months.

II. Factual Determinations

a. Physical Substrate Determinations.

(1) Substrate Elevation and Slope. The design template consists of a 20 foot extension of the 1995 mean high water level baseline at elevation +5 feet (ft) above MLW (+3.75 ft-NAVD88); a foreshore slope of 1V:15H transitioning to a nearshore slope of 1V:25H from MLW extending out to the intersection with the existing profile.

(2) Sediment Type. Conservative dredge depths and a spring 2016 survey of the borrow site were used to estimate an available volume of approximately 3.5 million cubic yards. A review of the available geotechnical data for the proposed sand source indicates that the material is compatible with the beach placement area. The mean grain size of the sand from the 33 analyzed vibracores in 2014 was 0.47 mm with a standard deviation of 1.25. Table 3 of the Geotechnical Appendix shows a comparison of the 2000 native beach data and 2014 existing beach data with the available sand source data. Additionally, the sand source sediment color was described typically as light gray to

gray (10 YR 7/1 to 10 YR 6/1, respectively). Based on these descriptions the sand source color is compatible with USACE's (2014) beach characterization of white sand (2.5Y 8/1).

(3) Dredge/Fill Material Movement. The fill material will be subject to erosion by waves with the net movement of material to the south of Gasparilla.

(4) Physical Effects on Benthos. Some benthic organisms that are not mobile may be lost during dredging. Recolonization soon after project completion is expected to replace those organisms which do not survive project construction. It is anticipated that no long-term effects will occur.

b. Water Circulation. Fluctuation and Salinity Determination.

(1) Water Column Effects. During dredging, turbidity will increase temporarily in the water column. The increased turbidity will be short-term; therefore, placement of fill will have no long-term or significant impacts, if any, on salinity, water chemistry, clarity color, odor, taste, dissolved gas levels, nutrients or eutrophication.

(2) Current Patterns and Circulation. The primary currents in the nearshore are wave-induced longshore currents. These currents are driven by the transformation of obliquely incident waves in the nearshore. The mean longshore current is from north to south. The project will have no significant effect on existing current patterns, current flow, velocity, stratification, or the hydrologic regime of the area.

(3) Normal Water Level Fluctuations and Salinity Gradients. Mean high water in the Gasparilla project area is located at elevations of 1.87 feet and 1.42 feet (respectively) National Geodetic Vertical Datum 1929 (NGVD). Salinity is that of normal ocean water.

c. Suspended Particulate Turbidity Determinations.

(1) Expected Changes in Suspended Particulate and Turbidity Levels in the Vicinity of the Disposal Site. There may be a temporary increase in turbidity levels in the project area during discharge of material.

(2) Effects on the Chemical and Physical Properties of the Water Column.

(a) Light Penetration. Some decrease in light penetration may occur in the immediate vicinity of the dredging area. This effect will be temporary, limited to the immediate area of construction, and will have no adverse impact on the environment.

(b) Dissolved Oxygen. Dissolved oxygen levels will not be altered by this project.

(c) Toxic Metals. Organics and Pathogens. No toxic metals, organics, or pathogens are expected to be released by the project.

(d) Aesthetics. The aesthetic quality of the water in the immediate area of the project will be reduced during construction due to increased turbidity. This will be a short-term and localized condition.

(3) Effects on Biota.

(a) Primary Productivity and Photosynthesis. The proposed borrow and fill areas are characterized by a sandy, featureless bottom. There is no attached algae and the effects on phytoplankton, if any, will be minimal and short-term.

(b) Suspension/Filter Feeders. An increase in turbidity could adversely impact burrowing invertebrate filter feeders within and adjacent to the immediate construction area. It is not expected that a short-term, temporary increase in turbidity will have any long-term negative effects on these highly prolific organisms.

(c) Sight Feeders. No significant impacts on these organisms are expected as the majority of sight feeders are highly mobile and can move outside the project area.

d. Contaminant Determinations. Material which will be dredged from the proposed borrow sites will not introduce, relocate, or increase contaminants at the fill area.

e. Aquatic Ecosystem and Organism Determinations.

(1) Effects on Plankton. No long-term adverse impact on autotrophic or heterotrophic organisms are anticipated.

(2) Effects on Benthos. No adverse long-term impacts to non-motile benthic invertebrates are anticipated.

(3) Effects on Nekton. These organisms are highly motile, and therefore no long-term adverse impacts are expected.

(4) Effects on the Aquatic Food Web. No adverse long-term impact to any trophic group in the food web is anticipated.

(5) Effects on Special Aquatic Sites.

(a) Hardground and Reef Communities. Prior beach fill activities impacted hardground resources located at the northern taper of Gasparilla Island. Mitigation was successfully performed to offset this impact. Future beach nourishment is not expected to exceed prior impacts and, therefore, would not be mitigated. Please see sections 2.4.5, 4.5 and Appendix G - Attachment 4 for more information on the mitigation including monitoring reports.

(6) Endangered and Threatened Species. There will be no significant adverse impacts to any threatened or endangered species or on critical habitat of any threatened or

endangered species. Refer to section 6.4 in the main report for measures that will be implemented to protect threatened and endangered species.

(7) Other Wildlife. Minor adverse impacts to small foraging mammals, reptiles, or wading birds, or wildlife in general are expected.

(8) Actions to Minimize Impacts. All practical safeguards will be taken during construction to preserve and enhance environmental, aesthetic, recreational, and economic values in the project area. Specific precautions are discussed elsewhere in this 404(b) (1) evaluation and in the environmental assessment for this project.

f. Proposed Disposal Site Determinations.

(1) Mixing Zone Determination. A mixing zone variance application will be submitted to the Florida Department of Environmental Protection because the dredged material is expected to cause a temporary increase in turbidity at the beach placement site. No adverse impacts related to depth, current velocity, direction and variability, degree of turbulence, stratification, or ambient concentrations of constituents are expected from implementation of the project.

(2) Determination of Compliance with Applicable Water Quality Standards. Because of the inert nature of the material to be dredged, Class III water quality standards will not be violated.

(3) Potential Effects on Human Use Characteristics.

(a) Municipal and Private Water Supplies. No municipal or private water supplies will be impacted by the project.

(b) Recreational and Commercial Fisheries. Fishing in the immediate construction area will be prohibited while construction is in progress. Recreational and commercial fisheries will not be otherwise impacted by implementation of the project.

(c) Water Related Recreation. Beach and water related recreation in the immediate vicinity of construction will be prohibited during construction activities. This will be a short-term impact.

(d) Aesthetics. The existing environmental setting will not be adversely impacted. Construction activities will cause a temporary increase in noise and air pollution due to equipment, as well as some temporary increase in turbidity. These impacts are not expected to adversely affect the aesthetic resources over the long term and, once construction ceases, these conditions will return to pre-project levels.

(e) Parks. National and Historic Monuments. National Seashores. Wilderness Areas. Research Sites and Similar Preserves. No such designated sites are located within the project area.

g. Determination of Cumulative Effects on the Aquatic Ecosystem. There will be no cumulative impacts that result in major impairment of water quality of the existing aquatic ecosystem as a result of the placement of fill at the project site.

h. Determination of Secondary Effects on the Aquatic Ecosystem. There will be no secondary impacts on the aquatic ecosystem as a result of the dredging.

III. Findings of Compliance or Non-compliance with the Restrictions on Discharge.

a. No significant adaptations of the guidelines were made relative to this evaluation.

b. No practicable alternative exists, which meets the study objectives that does not involve discharge of fill into waters of the United States.

c. After consideration of disposal site dilution and dispersion, the discharge of fill materials will not cause or contribute to, violations of any applicable State water quality standards for Class III waters. The discharge operation will not violate the Toxic Effluent Standards of Section 307 of the Clean Water Act.

d. The dredging and placement of fill material will not jeopardize the continued existence of any species listed as threatened or endangered or result in the likelihood of destruction or adverse modification of any critical habitat as specified by the Endangered Species Act of 1973, as amended.

e. The placement of fill material will not result in significant adverse effects on human health and welfare, including municipal and private water supplies, recreational and commercial fishing, plankton, fish, shellfish, wildlife, and special aquatic sites. The life stages of aquatic species and other wildlife will not be adversely affected. Significant adverse effects on aquatic ecosystem diversity, productivity and stability, and recreational, aesthetic, and economic values will not occur.

f. On the basis of the guidelines, the proposed disposal site for the discharge of dredged material is specified as complying with the requirements of these guidelines.

LEE COUNTY, FLORIDA

SHORE PROTECTION PROJECT

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Environmental

Attachment 2 – Coastal Zone Management Consistency

May 2018



**US Army Corps
of Engineers**
Jacksonville District

COASTAL ZONE CONSISTENCY EVALUATION

FLORIDA COASTAL ZONE MANAGEMENT PROGRAM FEDERAL CONSISTENCY EVALUATION PROCEDURES

LEE COUNTY, FLORIDA SHORE PROTECTION PROJECT GASPARILLA ISLAND SEGMENT

1. Chapter 161, Beach and Shore Preservation.

The intent of the coastal construction permit program established by this chapter is to regulate construction projects located seaward of the line of mean high water and what might have an effect on natural shoreline processes.

Response: The proposed plans and information will be submitted to the state in compliance with this chapter.

2. Chapters 186 and 187, State and Regional Planning.

These chapters establish the State Comprehensive Plan, which sets goals that articulate a strategic vision of the state's future. Its purpose is to define, in a broad sense, goals and policies that provide decision makers directions for the future and provide long-range guidance for an orderly social, economic and physical growth.

Response: This proposed project will be coordinated with appropriate Federal, state, and local governmental agencies. The project meets the primary goal of the State Comprehensive Plan through preservation and protection of the shorefront development and infrastructure.

3. Chapter 252, Disaster Preparation, Response and Mitigation.

This chapter creates a state emergency management agency, with the authority to provide for the common defense; to protect public peace, health and safety; and to preserve the lives and property of the people of Florida.

Response: The proposed project involves placing beach compatible material onto an eroding beach. As a protective means for residents, development, and infrastructure located along 2.8 miles of Gasparilla Island in Lee County. Therefore, this project would be consistent with the efforts of the Division of Emergency Management.

4. Chapter 253, State Lands.

This chapter governs the management of submerged state lands and resources within state lands. This includes archeological and historical resources; water resources; fish and wildlife resources; beaches and dunes; submerged grass beds and other benthic

communities; swamps, marshes and other wetlands; mineral resources; unique natural resources; submerged lands, spoil islands, and artificial reefs.

Response: The authorized beach nourishment would create increased recreational beach and provide storm protection for the project segment of Gasparilla Island. No sea grass beds are located within the proposed fill or borrow areas. Buffer (no work) zones will be used to protect potentially significant cultural resources within the borrow area. Prior beach fill activities impacted hardground resources located at the northern taper of Gasparilla Island. Mitigation was successfully performed to offset this impact. Future beach nourishment is not expected to exceed prior impacts and, therefore, would not be mitigated. The proposed project would comply with the intent of this chapter.

5. Chapters 253, 259, 260, and 375, Land Acquisition.

This chapter authorizes the state to acquire land to protect environmentally sensitive areas.

Response: Since the affected property already is in public ownership, this chapter does not apply.

6. Chapter 258, State Parks and Aquatic Preserves.

This chapter authorizes the state to manage state parks and preserves. Consistency with this statute would include consideration of projects that would directly or indirectly adversely impact park property, natural resources, park programs, management or operations.

Response: The proposed project area does not contain any state parks or aquatic preserves. The project is consistent with this chapter.

7. Chapter 267, Historic Preservation.

This chapter establishes the procedures for implementing the Florida Historic Resources Act responsibilities.

Response: This project has been coordinated with the State Historic Preservation Officer (SHPO). Historical property investigations were conducted in the project area. A buffer (no work) zone will be established to protect potentially significant cultural resources identified in the Gasparilla borrow area. The project will be consistent with the goals of this chapter.

8. Chapter 288, Economic Development and Tourism.

This chapter directs the state to provide guidance and promotion of beneficial development through encouraging economic diversification and promoting tourism.

Response: The proposed beach nourishment would provide more area for recreational opportunities and protection of development. This will be compatible with tourism for this area and will be consistent with the goals of this chapter.

9. Chapters 334 and 339, Public Transportation.

This chapter authorizes the planning and development of a safe and efficient transportation system.

Response: No long term adverse impacts to public transportation systems are anticipated by this project.

10. Chapter 370, Saltwater Living Resources.

This chapter directs the state to preserve, manage and protect the marine, crustacean, shell and anadromous fishery resources in state waters; to protect and enhance the marine and estuarine environment; to regulate fishermen and vessels of the state engaged in the taking of such resources within or without state waters; to issue licenses for the taking and processing products of fisheries; to secure and maintain statistical records of the catch of each such species, and to conduct scientific, economic, and other research studies.

Response: The proposed beach nourishment may cause a temporary short-term impact on non-motile species such as filter feeding, burrowing and attached organisms. Motile species such as fish and crustaceans may experience some short-term impacts but should be able to avoid the area during construction and seek more favorable environmental conditions. No adverse impacts to marine fishery resources are expected. Based on the overall impacts of the project, the project is consistent with the goals of this chapter.

11. Chapter 372, Living Land and Freshwater Resources.

This chapter establishes the Florida Fish and Wildlife Conservation Commission and directs it to manage freshwater aquatic life and wild animal life and their habitats. The purpose is to perpetuate a diversity of species with densities and distributions which provide sustained ecological, recreational, scientific, educational, aesthetic, and economic benefits.

Response: The project will have no effect on fresh water aquatic life and minor effects to wild animal life.

12. Chapter 373, Water Resources.

This chapter provides the authority to regulate the withdrawal, diversion, storage, and consumption of water.

Response: This project does not involve groundwater or surface water resources as described by this chapter.

13. Chapter 376, Pollutant Spill Prevention and Control.

This chapter regulates the transfer, storage, and transportation of pollutants and the cleanup of pollutant discharges.

Response: The contract specifications will prohibit the contractor from dumping oil, fuel, or hazardous wastes in the work area and will require that the contractor adopt safe and sanitary measures for the disposal of solid wastes. A spill prevention plan will be required.

14. Chapter 377, Oil and Gas Exploration and Production.

This chapter authorizes the regulation of all phases of exploration, drilling, and production of oil, gas, and other petroleum products.

Response: This project does not involve the exploration, drilling, or production of gas, oil, or other petroleum products and, therefore, does not apply.

15. Chapter 380, Environmental Land and Water Management.

This chapter establishes criteria and procedures to assure that local land development decisions consider the regional impact nature of proposed large-scale development.

Response: The proposed project would not have any regional impact on resources in the area. Therefore, the project is consistent with the goals of this chapter.

16. Chapter 388, Arthropod Control.

This chapter provides for a comprehensive approach for abatement or suppression of mosquitoes and other pest arthropods within the state.

Response: The project would not further the propagation of mosquitoes or other pest arthropods.

17. Chapter 403, Environmental Control.

This chapter authorizes the regulation of pollution of the air and waters of the state by the Florida Department of Environmental Protection (FDEP).

Response: Environmental protection measures will be implemented to ensure that no lasting adverse effects on water quality, air quality, or other environmental resources will occur. Water Quality Certification will be sought from the state prior to construction. The project complies with the intent of this chapter.

18. Chapter 582, Soil and Water Conservation.

This chapter establishes policy for the conservation of the state soil and water through the Department of Agriculture. Land use policies will be evaluated in terms of their tendency to cause or contribute to soil erosion, or to conserve, develop, and utilize soil and water resources both onsite or in adjoining properties affected by the project. Particular attention will be given to projects on or near agricultural lands.

Response: The project is not located near or on any agricultural lands. Therefore, this chapter does not apply.

LEE COUNTY, FLORIDA

SHORE PROTECTION PROJECT GASPARILLA ISLAND SEGMENT

Final Integrated Section 934 Report and Environmental Assessment

APPENDIX G

Environmental

Attachment 3 – Monitoring Report

May 2018



**US Army Corps
of Engineers**
Jacksonville District

Gasparilla Island

Mitigation Reef



Post Nourishment Biological Survey

Permit 0174403-001-JC

May 2015

Prepared By: Lee County Division of Natural Resources
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Appendix A - Hydrographic Survey

Appendix B – Biological Survey

INTRODUCTION

Lee County constructed the Gasparilla Island Erosion Control project between December 2006 and April 2007. The work authorized by permit 0174403-JC entailed placement of 1,072,781 cubic yards of sand on the beaches of Gasparilla Island. The material was dredged from the Boca Grande Pass ebb shoal, located approximately 2 miles offshore. Beach placement occurred over 15,000 linear feet, from 17th Street to Boca Grande Pass, and covered 0.9 acres of hardbottom.

The rock outcroppings were located in the nearshore region and alternated between being exposed and covered by the localized sediment transport. The limestone substrate provided beneficial habitat for macroalgae and filter feeding organisms when it was exposed. A cognizable benefit was delivered to the regions natural food chain by providing this habitat. Algae communities are a food source for other sea life such as sea turtles, invertebrates, and other plant eating fish. Overhangs and crevices from the rock also provided small fish and invertebrates' locations for avoiding larger predatory animals (Mote, 2001).

Mitigation for perpetuating this loss of habitat requires the creation of a similar reef structure immediately offshore of the fill area. Lee County is responsible for constructing the reef in accordance with the permit conditions. A minimum of 0.9 acres of limestone is required to be placed in water depths of 8 to 10 ft NGVD approximately 500 feet off the beach. Each individual limestone rock must weigh between ¼ and ¾ ton (500 and 1,500 lbs), and remain at least six (6) feet below the water surface, or MLLW, for navigational purposes. (The datum of MLLW and NGVD are equivalent for Gasparilla Island.)

Monitoring the success of the mitigation is also stipulated by the authorized permit and requires 1 type of follow-up survey. A one year biological survey and report that will list epibenthic species present on each of ten quadrates. The results of this survey are presented below.

REEF CONSTRUCTION

Reef construction began on September, 15, 2008 by Barnacle Bay Transport. Seventeen (17) loads of limestone rock were taken to the deployment site. The loads averaged in weight of 48 tons. The material was placed using a barge mounted excavator while positioned in the designated reef placement location. Lee County denoted the reef locations for each deployment. Placement of the limestone concluded on November 21, 2008.



Unloading Operations of Reef Material



Limestone Rock for Mitigation Reef

The permitted reef site covered 1.4 acres and consisted of six (6) 100 ft. x 100 ft. squares approximately 500 ft offshore in water depths from 10 to 12 feet NGVD. Figure 1 shows the plan view layout of the reef site with geographical coordinates.

The total volume of material placed was 817 tons. The deployments began in the southern most reef site and advanced to the north, covering each site. The tonnage placed in each site is listed below with site references corresponding with the post construction survey.

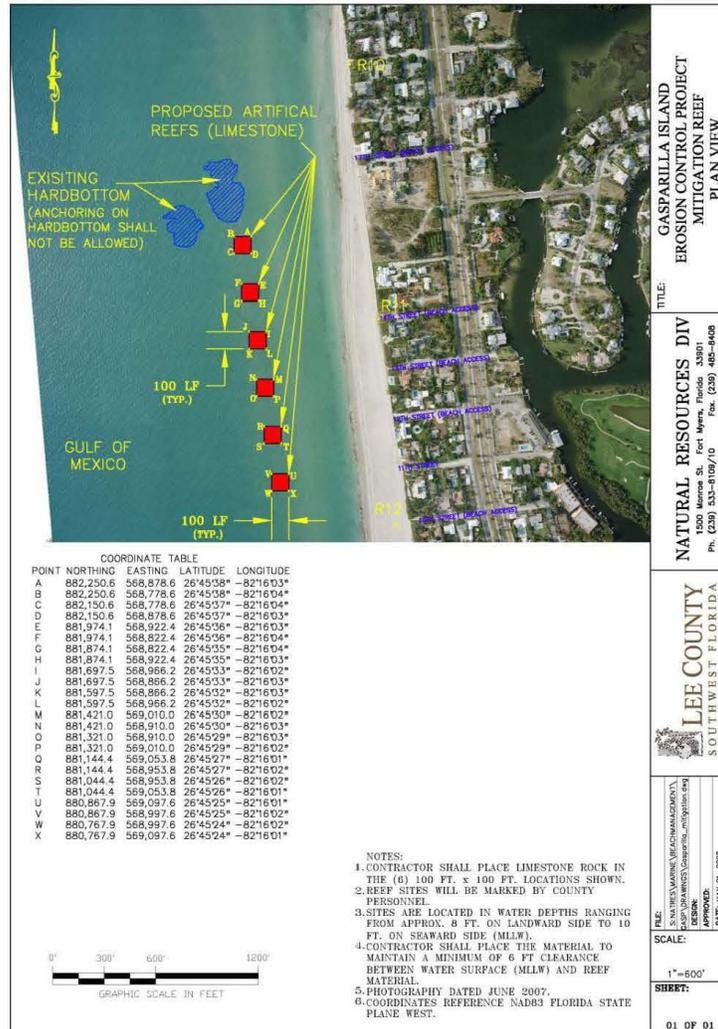
Table 1 – Volume of Reef Material Placed by Weight

Site	Tonnage Placed
A	88
B	252
C	74
D	92
E	118
F	193

A density of 155 lb/ft³ was assumed for the limestone rock. With this assumption, the average rock diameter would be 2.3 feet assuming an equal distribution of rock sizes between the ¼ and ¾ ton requirement. Similarly, the average weight could be assumed at 992 pounds.

The typical construction technique for reef placement is to deploy material off the side of stationary barge. Therefore, consideration was given to allow placement without the need for stacking. The rock is required to be contained within a vertical range of four (4) feet in the deepest locations and two (2) feet in the shallower spots. The water depth was reported as 8 to 10 feet and 6 feet of clearance is required for navigation (Humiston and Moore, 2001). Thus, two (2) average rocks would exceed 4 feet in height if staked together. For this reason, a 1.5 foot void space was allotted for each side of the rocks. This allowed for a minimal 3 foot separation between each rock and a total volume of approximately 825 tons to fill the reef sites.

Figure 1 - Mitigation Reef Plan View



SIDESCAN SONAR SURVEY

The side scan sonar data shows the locations and area of the mitigation reefs.

The sidescan survey was conducted using a 900 kHz side scan sonar surveying along pre-plotted navigation lines. Navigation and positioning was obtained using a Garmin DGPS Satellite Positioning System. The sidescan sonar was set to a range of 40m, allowing for 80m of swath coverage and 100% coverage of the survey area. All horizontal controls were referenced to WGS 84, Meter.

BIOLOGICAL SURVEY

Lee County staff conducted the biological survey on May 12th, 2015. Ten (10) random one meter (1 m) quadrates were field selected for sampling. The percent cover of algae including epibenthic species present within the sampling area was recorded and shown in Appendix B. The results show the reef supports a typical hard-bottom reef community and also is providing smaller organisms' refuge from larger predatory fish.

The intent to reproduce a habitat suitable for sustaining a food source for invertebrate herbivores has been achieved. The reef site is comparable by function to the hardbottom buried by the sand placement. Each sampling site had significant cover with diverse groups of reef organisms observed.

CONCLUSION

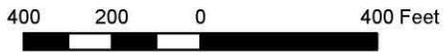
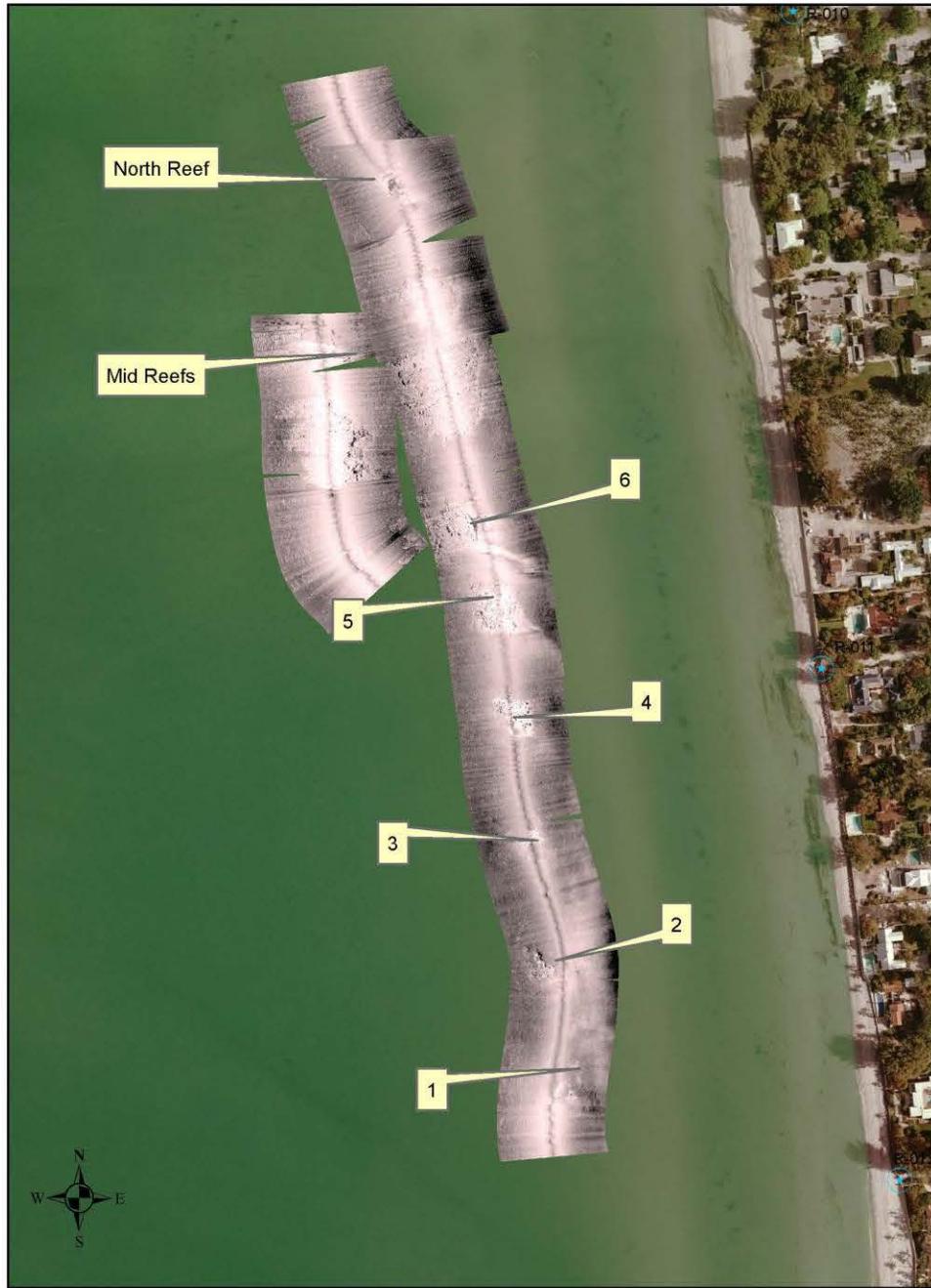
The mitigation reef structure is providing similar habitat as the impacted hardbottom buried in the nearshore region. Activity from organisms around the reefs are beginning to expose previously buried nearby hardbottom, thus increasing the amount of available reef habitat. Grazers are being supplied an organic food base establishing on the placed limestone. Smaller organisms such as seaweed blenny, belted sandfish and hermit crabs are also finding refuge in the rock. Diversity at the site continued to increase since the previous survey.

References

- Mote Marine Laboratory. (2001). *An Evaluation of Nearshore Rock Habitat & Artificial Reef Survey Off Gasparilla Island*. (Technical Report No. 764). Sarasota, Florida.
- Humiston and Moore Engineers. (2001). *Gasparilla Island Beach Restoration, Hard Bottom Mitigation Plan*. Naples, Florida.

Appendix A – Sidescan Sonar Survey

Gasparilla Mitigation Reef Sidescan Sonar



Appendix B – Biological Survey

Percent cover and presence (x) of biota within ten randomly selected 1m quadrats at Gasparilla Island mitigation reef.

		SAMPLE NUMBER									
		1	2	3	4	5	6	7	8	9	10
red algae	Note 1	5			5			5		5	5
brown algae	Note 2	10	5	10	20	10	5	10	10	10	20
green algae	Note 3	10	5	10	10	10	5	10	10	10	10
barnacle	<i>Chthamalus</i> or <i>Balanus</i> sp.	x		x	x	x	x	x	x	x	x
hydroid	<i>Hydroid</i> sp.									x	x
colonial tunicate	<i>Eudistoma</i> sp.	x	x	x	x	x	x	x	x	x	x
flat tunicate	<i>Botrylloides nigrum</i>		x	x	x	x	x	x	x	x	x
encrusting sponge	<i>Ciona delitrix</i>	x	x	x	x	x	x	x	x	x	x
soft coral	<i>Leptogorgia virgulata</i>		x	x	x	x		x			
feather duster worms	Sabellidae undetermined										
seaweed blenny	<i>Parablennius marmoratus</i>	x		x	x	x	x	x	x	x	x
belted sandfish	<i>Serranus subligarius</i>	x		x	x	x	x	x	x	x	x
juv. lane snapper	<i>Lutjanus synagris</i>	x					x		x		x
urchin	<i>Echinometra lucunter</i>			x	x	x	x				
stone crab	<i>Menippe mercenaria</i>				x	x	x	x			x
hermit crab	sp. Undetermined			x		x	x	x	x	x	x
porcelain crab	sp. Undetermined										
gastropod	<i>Cerithiopsidae</i> or <i>Cerithiidae</i> sp.										
Combined % Algal Cover		25	10	20	35	20	10	25	20	25	35

Note 1: Includes but not limited to *Gracilaria* sp., *Enteromorpha* sp., *Acanthophora* sp., *Hypnea* sp.

Note 2: Includes but not limited to *Dictyota* sp., *Podium* sp.

Note 3: Includes but not limited to *Caulerpa sertularioides* s., *Caulerpa taxifolia*, *Caulerpa mexicana*, *Caulerpa prolifera*

Observational data only. No specimens were collected. Site visit on May 12, 2015.

LEE COUNTY, FLORIDA

SHORE PROTECTION PROJECT GASPARILLA ISLAND SEGMENT

Final Integrated Section 934 Report and Environmental Assessment

APPENDIX G

Environmental

Attachment 4 – Mailing list

May 2018



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15 SEAGRAPE LLC
9 OLD NECK RD
MANCHESTER, MA 01944

PEACOCK SUSAN A TR
PO BOX 60
MERRITT, MI 49667

WILCOX THOMAS E TR +
707 S PRESIDENT ST APT 440
BALTIMORE, MD 21202

VANOSDAL WARREN F +
17686 SAINT PATRICKS CT
GRANGER, IN 46530

FERNANDEZ EMILIO THOMAS +
2411 GRANDIN RD
CINCINNATI, OH 45208

PELLICCI MICHAEL + KIMBERLY
4688 LORDS ST
PRIOR LAKE, MN 55372

ARCHIES BUNKER LLC
13 KINGSTON MANOR DR
SAINT LOUIS, MO 63124

FETZER BERNDT
1540 NEWPORT LN
BARRINGTON, IL 60010

OLEARY WILLIAM R TR
66 SPRING ST
MARION, MA 02738

MACLETCHIE BERYL C
1 DUNHAM PL
IRVINGTON, NY 10533

BLAKESLEE BYRON E
PO BOX 1072
BOCA GRANDE, FL 33921

NEWELL GARY
PO BOX 455
BARTOW, FL 33831

DANIELS JOHN TR
7155 FAIRWAY DR
CRYSTAL LAKE, IL 60014

STOUT MARIANNE C
8105 SYCAMORE RD
INDIANAPOLIS, IN 46240

NYGAARD EGON
15408 TIMPAIGE DR
CHESTERFIELD, MO 63017

WATKINS LOUISE M
PO BOX 8950
LAKELAND, FL 33806

HOOKER EDWIN STANTON III
395 E WOODLAND RD
LAKE FOREST, IL 60045

HAYES DAVID L + PATTY S
PO BOX 1921
BOCA GRANDE, FL 33921

ALLEN JOANNE J TR 31.25% +
1401 S FLORIDA AVE
LAKELAND, FL 33803

MERCERS MENS + WESTERN STORE
4644 SE BROWN RD
ARCADIA, FL 34266

TREMELIN SCOTT S TR
PO BOX 1269
BOCA GRANDE, FL 33921

ZIGMAN LYNETTE M + MICHAEL J
15220 BREEZELAND RD
OCONOMOWOC, WI 53066

MARTIN MICHAEL D + JOY L
158 LAKE MORTON DR
LAKELAND, FL 33801

BG LIGHTHOUSE 14 LLC
2907 W SAN CARLOS ST
TAMPA, FL 33629

WILLETS EMILY S TR
443 WOODLAND RD
SEWICKLEY, PA 15143

STEVENSON JENNA J TR
535 BEAVER RD
SEWICKLEY, PA 15143

ARNETT JANICE H
2215 NEVADA RD
LAKELAND, FL 33803

SNEAD HENRY T TR +
PO BOX 1104
BOCA GRANDE, FL 33921

UNITED STATES COAST GUARD
CIVIL ENGINEERING UNIT MIAMI
15608 SW 117 AVENUE
MIAMI, FL 33177

TIITF/REC + PARKS
DEPT OF ENVIR PROTECTION
3900 COMMONWEALTH BLVD
TALLAHASSEE, FL 32399

BERG JOHN A + NANCY C TR
721 RICE ST E
WAYZATA, MN 55391

CHRISTAKOS DONALD H TR +
4681 EAST LAKE RD
CAZENOVIA, NY 13035

ALLEN DARRYL F + SHARON
PO BOX 1206
BOCA GRANDE, FL 33921

STOKELY RANDOLPH H + LYNN K
RANDOLPH STOKELY
3755 E 82ND ST STE 300
INDIANAPOLIS, IN 46240

FRASER DOD A + SUSAN P
PO BOX 1831
BOCA GRANDE, FL 33921

KLING SARAH B TR
110 GROVELAND TER
MINNEAPOLIS, MN 55403

KELLEY BRAD + SUSAN
735 E VENICE AVE STE 205
VENICE, FL 34285

KELLEY BRAD + SUSAN
2200 LAPSLEY LN
BOWLING GREEN, KY 42103

RUSSELL MARIE TR
K BURGE APPLETON PARTNERS
1 POST OFFICE SQUARE 46
BOSTON, MA 02109

BURDGE RICHARD M SR TR
PO BOX 40
BOCA GRANDE, FL 33921

FAWKES LAS OLAS LLC
1046 MICHIGAN AVE
WILMETTE, IL 60091

SLIGAR GARY + SUSAN C
PO BOX 130
BOCA GRANDE, FL 33921

RODRIGUEZ CARLOS A + EILEEN T
29 COLTS GLEN LN
BASKING RIDGE, NJ 07920

COURT DAVID +
4 CLUNY DR
TORONTO, ON M4W 2P7

NOYES LINDA CO TR +
TERRY YOUNG
900 EAST 96TH ST STE 500
INDIANAPOLIS, IN 46240

SODERBERG PETER H + ELSA A
PO BOX 1287
BOCA GRANDE, FL 33921

KENAN BRUCE A + LINDA H
103 W LAKE ST
SKANEATELES, NY 13152

SULLIVAN HUGH D & JULIE H
55 E ERIE ST UNIT 5401
CHICAGO, IL 60611

CRUZ EDWARD + SHARON
PO BOX 365
HOLMDEL, NJ 07733

COMRIE DOUGLAS C + CAROLYN A
PO BOX 1309
BOCA GRANDE, FL 33921

FEHSENFELD FRED MEHLERT JR +
PO BOX 68123
INDIANAPOLIS, IN 46268

FLETCHER ROBERT K TR
PO BOX 1411
BOCA GRANDE, FL 33921

HRS REAL ESTATE LLC
PO BOX 3779
GREENVILLE, DE 19807

FRAZIER ELIZABETH P
PO BOX 1130
BOCA GRANDE, FL 33921

FRASER RICHARD M + HELEN T
PO BOX 840
BOCA GRANDE, FL 33921

SHERMAN MARY NORINE TR
5306 SUNSET DR
KANSAS CITY, MO 64112

HOBBS PATRICIA W
PO BOX 240
MONTCHANIN, DE 19710

BEE ZEE LLC
PO BOX 3779
GREENVILLE, DE 19807

COWPERTHWAIT JAMES B + CHRIS H
PO BOX 1983
BOCA GRANDE, FL 33921

1300 13TH STREET LLC
10000 MEMORIAL DR SUITE 330
HOUSTON, TX 77024

HEATTER JUSTIN W TR
HENRY BECTON
9 MUSKETAQUID RD
CONCORD, MA 01742

BLAU ELIZABETH B
PO BOX 475
BOCA GRANDE, FL 33921

SEMA HOLDING CORPORATION
DONALD A KEYSER (ESTHER AMES)
PO BOX 55806
BOSTON, MA 02205

JOURNEYS END BOCA GRANDE II LL
3757 JENNIFER ST NW
WASHINGTON, DC 20015

SHARP FARISH FP
PO BOX 3779
GREENVILLE, DE 19807

WEBB MARJORIE H
PO BOX 1561
BOCA GRANDE, FL 33921

KEEVIL MARY T H TR
PO BOX 2021
BOCA GRANDE, FL 33921

KILE NOEL O + DAWN M
4107 ROBERTS POINT RD
SARASOTA, FL 34242

COLONIAL INDUSTRIES INC
5120 S LAKELAND DR STE 1
LAKELAND, FL 33813

MOSELEY STEVE + LISA
6408 LONGWOOD TRACE LANE
LAKELAND, FL 33811

WBG PROPERTY LLC
PO BOX 8950
LAKELAND, FL 33806

SCANLON JAMES W TR
PO BOX 427
BOCA GRANDE, FL 33921

SCHWEGMAN JACQUELINE W TR
814 MCGUFFEY AVE
OXFORD, OH 45056

JULIEN JEFFREY P + KAREN M
14498 EAGLE POINTE DR
CLEARWATER, FL 33762

HORNER KATHARINE D TR
PO BOX 236
BOCA GRANDE, FL 33921

BENISEK GEORGE J TR
PO BOX 847
FRANKFORT, MI 49635

MALOTT DOROTHY ANNE MARGARET +
2638 BLUFFS WAY
BURLINGTON, ON L7M 0T8

BLALOCK RALPH + PATRICIA
409 EUNICE RD
LAKELAND, FL 33803

FORSELL LAWRENCE L + ALICE M
PO BOX 1086
BOCA GRANDE, FL 33921

SHERWOOD CLARK T + JOY S
1444 FAIRHAVEN DR
LAKELAND, FL 33803

KING WALTER G + CHRISTINE M
343 APACHE TRL
ORMOND BEACH, FL 32174

KILIAN J J + PATRICIA R TR
PO BOX 61
BOCA GRANDE, FL 33921

MAHAFFEY WILLIAM H TR
731 JAMESTOWN DR
WINTER PARK, FL 32792

HAMILTON DORRANCE H TR +
ENTERPRISE
WAYNE, PA 19087

TYNDALL MANAGEMENT CORP
JOHN MACDONNELL
19597 EBENEZER CHURCH RD
BLUEMONT, VA 20135

BRANHAM ANTHONY GREGG
6355 SUNBRIAR DR
CUMMING, GA 30040

DONIGAN JAMES D + JANET
15302 VINCENT CT
TAMPA, FL 33647

GULF SOUTH OUTFITTERS LLC
320 GULF BLVD UNIT 4B
BOCA GRANDE, FL 33921

OBECK ERIC S + MARY L
2909 W BAYSHORE CT
TAMPA, FL 33611

BEAUMONT DINA M
9720 OWEN BROWN RD
COLUMBIA, MD 21045

HALSEY COLETTE
322 PROSPECT AVE
LITTLE SILVER, NJ 07739

SANFORD GREGORY W
256 S BALD HILL RD
NEW CANAAN, CT 06840

GROH FRITZ + MANUELA
LANGE STR 32
74523 SCHWABISCH HALL

ADVANTAIRA TRUST LLC
2616 TAMIAMI TRL UNIT 2
PORT CHARLOTTE, FL 33952

SCHOENEBECK SIGRID
740 HOPE ST
BRISTOL, RI 02809

FORSELL LAURENCE L + ALICE M
PO BOX 1086
BOCA GRANDE, FL 33921

CLOUGHLEY JAMES E 1/3 +
100 SE PELICAN DR
STUART, FL 34996

ND KING FAMILY LTD PTNSP
8225 STONER RD
RIVERVIEW, FL 33569

BEAUMONT DINA M
9720 OWEN BROWN RD
COLUMBIA, MD 21045

CARPENTER DAVID C + KAREN B
100 N MOODUS RD
MOODUS, CT 06469

FERNANDEZ EMILIO + OTILLA TR
9600 WHITEGATE LN
CINCINNATI, OH 45243

STEVENSON JENNA J TR
535 BEAVER RD
SEWICKLEY, PA 15143

RAINMAKER GROUP LLC
1314 E LAS OLAS BLVD #433
FORT LAUDERDALE, FL 33301

TIITF/REC + PARKS
DEPT OF ENVIR PROTECTION
3900 COMMONWEALTH BLVD
TALLAHASSEE, FL 32399

EDWARDSON JOHN A
PO BOX 1423
BOCA GRANDE, FL 33921

DEBOEST BLAKE L + VICTORIA W
PO BOX 2424
BOCA GRANDE, FL 33921

PRAHL CAROLYN H
5133 LAKE IN THE WOODS BLVD
LAKELAND, FL 33813

ALEXMOR PROPERTIES II LLC +
1015 S DAKOTA AVE
TAMPA, FL 33606

ZENERE COLLEEN TR
10548 YANKEE RIDGE DR
FRANKFORT, IL 60423

JOYCE WILLIAM + JANET R TR
30 EQUESTRIAN WAY
LEMONT, IL 60439

MCDONALD SARAH M
PO BOX 1403
BOCA GRANDE, FL 33921

ELMES GEORGE A + VICKI L
700 MORNINGSIDE CT
ZIONSVILLE, IN 46077

BLEMKER DAVID L + ANN L
9 GREEN ACRES RD
WASHINGTON, IN 47501

SUNDOWN COLONY ASSN
PO BOX 1646
BOCA GRANDE, FL 33921

SEAGRAPE COLONY
PO BOX 391
BOCA GRANDE, FL 33921

BOCA GRANDE BEACH CLUB
SENTRY MANAGEMENT INC
2180 W SR 434 STE 5000
LONGWOOD, FL 32779

GULF VILLAS HOMEOWNERS ASSN
1861 PLACIDA RD STE 204
ENGLEWOOD, FL 34223

BOCA BAY MASTER ASSN INC
PO BOX 1239
BOCA GRANDE, FL 33921

GASPARILLA INN INC
PO BOX 1088
BOCA GRANDE, FL 33921

PA FARM PROPERTIES LLC
590 GULF BLVD
BOCA GRANDE, FL 33921

HOLLINS DIXIE M
580 GULF BLVD
BOCA GRANDE, FL 33921

PINCKNEY CHARLES M
570 GULF BLVD 9
BOCA GRANDE, FL 33921

ROSE JAMES C TR
570 GULF BLVD 6
BOCA GRANDE, FL 33921

BATTEL ROBERT L + DOROTHY K
570 GULF BLVD 3
BOCA GRANDE, FL 33921

FETZER PETER
500 GULF BLVD 10
BOCA GRANDE, FL 33921

MCGRATH SUSAN LYNNE TR
500 GULF BLVD 7
BOCA GRANDE, FL 33921

MCKEEL JULIANNE TR +
500 GULF BLVD 4
BOCA GRANDE, FL 33921

NIEDER GLORIA E
500 GULF BLVD 1
BOCA GRANDE, FL 33921

CINCO HERMANOS LLC
480 GULF BLVD 13
BOCA GRANDE, FL 33921

TIITF STATE OF FLORIDA
680 GULF BLVD
BOCA GRANDE, FL 33921

GOODRICH RAYMOND T JR TR +
570 GULF BLVD 11
BOCA GRANDE, FL 33921

PAVILION BOCA LLC
570 GULF BLVD 8
BOCA GRANDE, FL 33921

PARK ROY H JR + ELIZABETH P TR
570 GULF BLVD 5
BOCA GRANDE, FL 33921

JACOB JAMES A + DENISE A
540 GULF BLVD 5
BOCA GRANDE, FL 33921

FETZER PETER
500 GULF BLVD 9
BOCA GRANDE, FL 33921

THOMPSON PAUL D
500 GULF BLVD 6
BOCA GRANDE, FL 33921

OLDLAND FL ENTERPRISES INC
500 GULF BLVD 3
BOCA GRANDE, FL 33921

WATTS CAMPBELL F JR TR
480 GULF BLVD 12
BOCA GRANDE, FL 33921

COCHRAN LYNN M 1/2 INT +
480 GULF BLVD 10
BOCA GRANDE, FL 33921

CARLIN BRENDA E
576 GULF BLVD
BOCA GRANDE, FL 33921

BOCA REALTY LLC
570 GULF BLVD 2
BOCA GRANDE, FL 33921

CARSON WILLIAM V JR + BARBARA
570 GULF BLVD 7
BOCA GRANDE, FL 33921

PARSLEY BETTY TR
570 GULF BLVD 4
BOCA GRANDE, FL 33921

STEINMAN WILLIAM F
540 GULF BLVD 4
BOCA GRANDE, FL 33921

MOSER CHRISTOPHER J TR +
500 GULF BLVD 8
BOCA GRANDE, FL 33921

BGSBG HOLDINGS LLC
500 GULF BLVD 5
BOCA GRANDE, FL 33921

DORAN HAROLD G JR TR +
500 GULF BLVD 2
BOCA GRANDE, FL 33921

GASS ROBERT M + SONYA E
480 GULF BLVD 14
BOCA GRANDE, FL 33921

BERG DAVID P
460 GULF BLVD 6
BOCA GRANDE, FL 33921

SCOTT DEBORAH J TR
480 GULF BLVD 11
BOCA GRANDE, FL 33921

MILLS JOHN C JR TR
480 GULF BLVD 9
BOCA GRANDE, FL 33921

JONES DENNIS D MD
480 GULF BLVD 8
BOCA GRANDE, FL 33921

TRUSTEES UNDER AGREEMENT OF
480 GULF BLVD 7
BOCA GRANDE, FL 33921

MCCABE CHRISTOPHER J + CAROLYN
480 GULF BLVD 6
BOCA GRANDE, FL 33921

SEGUITI FRED A + MARY C
480 GULF BLVD 5
BOCA GRANDE, FL 33921

ENGSTROM LIMITED PARTNERSHIP
480 GULF BLVD 4
BOCA GRANDE, FL 33921

KOFFEND FRANK S + JEAN T TR
480 GULF BLVD 3
BOCA GRANDE, FL 33921

BAUMGARTEN PENNY L
480 GULF BLVD 2
BOCA GRANDE, FL 33921

MOHR SHARON A TR +
480 GULF BLVD 1
BOCA GRANDE, FL 33921

MCMILLAN MICHAEL H
460 GULF BLVD 3
BOCA GRANDE, FL 33921

ZUCCOTTI JOHN ANDREW TR +
460 GULF BLVD 10
BOCA GRANDE, FL 33921

COZART CARLTON C CO TR +
460 GULF BLVD 2
BOCA GRANDE, FL 33921

FERNANDES WILBUR E II +
460 GULF BLVD 7
BOCA GRANDE, FL 33921

FERINGA SCOTT D + KAREN A
460 GULF BLVD 5
BOCA GRANDE, FL 33921

NTS CORPORATION
460 GULF BLVD 9
BOCA GRANDE, FL 33921

YOUNG JORDAN KEITH + BETTIE J
460 GULF BLVD 4
BOCA GRANDE, FL 33921

HERRERA RICARDO + ANELY
460 GULF BLVD 1
BOCA GRANDE, FL 33921

ELIASON DONALD C JR
460 GULF BLVD 8
BOCA GRANDE, FL 33921

WOOD SUSAN O TR
420 GULF BLVD 26
BOCA GRANDE, FL 33921

BEUKEMA KENNETH G + CONNIE J
420 GULF BLVD 22
BOCA GRANDE, FL 33921

RICHARDS HARLEY + MARTHA
420 GULF BLVD 21
BOCA GRANDE, FL 33921

LOEBS RICHARD C JR TR
420 GULF BLVD 28
BOCA GRANDE, FL 33921

MONTGOMERY PAUL + MAUREEN
420 GULF BLVD 27
BOCA GRANDE, FL 33921

GEER JAMES H L/E +
420 GULF BLVD 14
BOCA GRANDE, FL 33921

RUNCK RENO F III + BETTY S
420 GULF BLVD 23
BOCA GRANDE, FL 33921

HAMMOND MICHAEL R + DENISE M
420 GULF BLVD 25
BOCA GRANDE, FL 33921

ZUTT MARTIN J JR +
420 GULF BLVD 24
BOCA GRANDE, FL 33921

RANDALL SUSAN D TR
420 GULF BLVD 20
BOCA GRANDE, FL 33921

MASUCCI ROBERT N + IRENE
420 GULF BLVD 19
BOCA GRANDE, FL 33921

RAVILLE JANET HOWE GARDNER
420 GULF BLVD 18
BOCA GRANDE, FL 33921

W B LLC
420 GULF BLVD 15
BOCA GRANDE, FL 33921

COLEMAN KENNETH R + TRACEY TR
420 GULF BLVD 12
BOCA GRANDE, FL 33921

ISAACS HOWARD M TR
420 GULF BLVD 8
BOCA GRANDE, FL 33921

BOCA GRANDE ISLE LLC
420 GULF BLVD 5
BOCA GRANDE, FL 33921

RAINMAKER GROUP LLC
420 GULF BLVD 2
BOCA GRANDE, FL 33921

WHITE ANN EVERETT TR
390 GULF BLVD
BOCA GRANDE, FL 33921

PEACOCK SUSAN A TR
380 GULF BLVD 14
BOCA GRANDE, FL 33921

FERNANDEZ EMILIO THOMAS +
380 GULF BLVD 8
BOCA GRANDE, FL 33921

FETZER BERNDT
380 GULF BLVD 6
BOCA GRANDE, FL 33921

MIRAVI MICHAEL M TR +
420 GULF BLVD 17
BOCA GRANDE, FL 33921

LONGEST THOMAS C+
420 GULF BLVD 13
BOCA GRANDE, FL 33921

BOCA SOL LLC
420 GULF BLVD 10
BOCA GRANDE, FL 33921

WAGNER THOMAS W + GLENDA J
420 GULF BLVD 7
BOCA GRANDE, FL 33921

PAIRITZ ERIC A + MICHELLE C
420 GULF BLVD 4
BOCA GRANDE, FL 33921

FARRIOR RICHARD T TR
420 GULF BLVD 1
BOCA GRANDE, FL 33921

JACKSON HELEN DAY TR
380 GULF BLVD 12
BOCA GRANDE, FL 33921

WILCOX THOMAS E TR +
380 GULF BLVD 13
BOCA GRANDE, FL 33921

PELLICCI MICHAEL + KIMBERLY
380 GULF BLVD 10
BOCA GRANDE, FL 33921

OLEARY WILLIAM R TR
380 GULF BLVD 5
BOCA GRANDE, FL 33921

GRIMES CHRISTOPHER S
420 GULF BLVD 16
BOCA GRANDE, FL 33921

FERGUSON SUSAN Y
420 GULF BLVD 11
BOCA GRANDE, FL 33921

SIG PROPERTIES LLC
420 GULF BLVD 9
BOCA GRANDE, FL 33921

MILLER GAIL B +
420 GULF BLVD 6
BOCA GRANDE, FL 33921

HOWELLS JEFFERY P TR
420 GULF BLVD 3
BOCA GRANDE, FL 33921

GRAVANDA JOHN N TR
394 GULF BLVD
BOCA GRANDE, FL 33921

15 SEAGRAPE LLC
380 GULF BLVD 15
BOCA GRANDE, FL 33921

VANOSDAL WARREN F +
380 GULF BLVD 11
BOCA GRANDE, FL 33921

ARCHIES BUNKER LLC
380 GULF BLVD 9
BOCA GRANDE, FL 33921

MACLETCHE BERYL C
380 GULF BLVD 4
BOCA GRANDE, FL 33921

BLAKESLEE BYRON E
380 GULF BLVD 3
BOCA GRANDE, FL 33921

STOUT MARIANNE C
370 GULF BLVD
BOCA GRANDE, FL 33921

HOOKER EDWIN STANTON III
350 GULF BLVD
BOCA GRANDE, FL 33921

MERCERS MENS + WESTERN STORE
290 GULF BLVD 16
BOCA GRANDE, FL 33921

MARTIN MICHAEL D + JOY L
290 GULF BLVD 12
BOCA GRANDE, FL 33921

STEVENSON JENNA J TR
290 GULF BLVD 19
BOCA GRANDE, FL 33921

UNITED STATES COAST GUARD
220 GULF BLVD
BOCA GRANDE, FL 33921

CHRISTAKOS DONALD H TR +
174 GULF BLVD
BOCA GRANDE, FL 33921

FRASER DOD A + SUSAN P
138 GULF BLVD
BOCA GRANDE, FL 33921

KELLEY BRAD + SUSAN
100 GULF BLVD
BOCA GRANDE, FL 33921

NEWELL GARY
380 GULF BLVD 2
BOCA GRANDE, FL 33921

NYGAARD EGON
360 GULF BLVD 66
BOCA GRANDE, FL 33921

HAYES DAVID L + PATTY S
344 GULF BLVD
BOCA GRANDE, FL 33921

TREMELIN SCOTT S TR
290 GULF BLVD 15
BOCA GRANDE, FL 33921

BG LIGHTHOUSE 14 LLC
290 GULF BLVD 14
BOCA GRANDE, FL 33921

ARNETT JANICE H
290 GULF BLVD 20
BOCA GRANDE, FL 33921

TIITF/REC + PARKS
184 GULF BLVD
BOCA GRANDE, FL 33921

ALLEN DARRYL F + SHARON
160 GULF BLVD
BOCA GRANDE, FL 33921

KLING SARAH B TR
134 GULF BLVD
BOCA GRANDE, FL 33921

RUSSELL MARIE TR
111 GILCHRIST AVE
BOCA GRANDE, FL 33921

DANIELS JOHN TR
380 GULF BLVD 1
BOCA GRANDE, FL 33921

WATKINS LOUISE M
356 GULF BLVD
BOCA GRANDE, FL 33921

ALLEN JOANNE J TR 31.25% +
340 GULF BLVD
BOCA GRANDE, FL 33921

ZIGMAN LYNETTE M + MICHAEL J
290 GULF BLVD 11
BOCA GRANDE, FL 33921

WILLETS EMILY S TR
290 GULF BLVD 17
BOCA GRANDE, FL 33921

SNEAD HENRY T TR +
290 GULF BLVD 21
BOCA GRANDE, FL 33921

BERG JOHN A + NANCY C TR
132 GULF BLVD
BOCA GRANDE, FL 33921

STOKELY RANDOLPH H + LYNN K
150 GULF BLVD
BOCA GRANDE, FL 33921

KELLEY BRAD + SUSAN
110 GULF BLVD
BOCA GRANDE, FL 33921

BURDGE RICHARD M SR TR
235 WHISKEY ROW
BOCA GRANDE, FL 33921

FAWKES LAS OLAS LLC
121 GILCHRIST AVE
BOCA GRANDE, FL 33921

COURT DAVID +
211 BANYAN ST
BOCA GRANDE, FL 33921

KENAN BRUCE A + LINDA H
300 3RD ST W
BOCA GRANDE, FL 33921

COMRIE DOUGLAS C + CAROLYN A
301 3RD ST W
BOCA GRANDE, FL 33921

HRS REAL ESTATE LLC
801 GASPARILLA RD
BOCA GRANDE, FL 33921

SHERMAN MARY NORINE TR
1110 11TH ST W
BOCA GRANDE, FL 33921

COWPERTHWAIT JAMES B + CHRIS H
1221 12TH ST W
BOCA GRANDE, FL 33921

BLAU ELIZABETH B
1501 GASPARILLA RD
BOCA GRANDE, FL 33921

SHARP FARISH FP
1511 GASPARILLA RD
BOCA GRANDE, FL 33921

KILE NOEL O + DAWN M
1900 19TH ST W
BOCA GRANDE, FL 33921

SLIGAR GARY + SUSAN C
161 GILCHRIST AVE
BOCA GRANDE, FL 33921

NOYES LINDA CO TR +
245 WHISKEY ROW
BOCA GRANDE, FL 33921

SULLIVAN HUGH D & JULIE H
400 4TH ST W
BOCA GRANDE, FL 33921

FEHSENFELD FRED MEHLERT JR +
351 GILCHRIST AVE
BOCA GRANDE, FL 33921

FRAZIER ELIZABETH P
1210 12TH ST W
BOCA GRANDE, FL 33921

HOBBS PATRICIA W
1111 11TH ST W
BOCA GRANDE, FL 33921

1300 13TH STREET LLC
1300 13TH ST W
BOCA GRANDE, FL 33921

SEMA HOLDING CORPORATION
1400 14TH ST W
BOCA GRANDE, FL 33921

WEBB MARJORIE H
1701 17TH ST W
BOCA GRANDE, FL 33921

COLONIAL INDUSTRIES INC
320 GULF BLVD 5B
BOCA GRANDE, FL 33921

RODRIGUEZ CARLOS A + EILEEN T
200 BANYAN ST
BOCA GRANDE, FL 33921

SODERBERG PETER H + ELSA A
255 WHISKEY ROW
BOCA GRANDE, FL 33921

CRUZ EDWARD + SHARON
341 GILCHRIST AVE
BOCA GRANDE, FL 33921

FLETCHER ROBERT K TR
361 GILCHRIST AVE
BOCA GRANDE, FL 33921

FRASER RICHARD M + HELEN T
1000 10TH ST W
BOCA GRANDE, FL 33921

BEE ZEE LLC
1700 17TH ST W
BOCA GRANDE, FL 33921

HEATTER JUSTIN W TR
1301 13TH ST W
BOCA GRANDE, FL 33921

JOURNEYS END BOCA GRANDE II LL
1800 18TH ST W
BOCA GRANDE, FL 33921

KEEVIL MARY T H TR
1801 18TH ST W
BOCA GRANDE, FL 33921

MOSELEY STEVE + LISA
320 GULF BLVD 5F
BOCA GRANDE, FL 33921

WBG PROPERTY LLC
320 GULF BLVD 5A
BOCA GRANDE, FL 33921

JULIEN JEFFREY P + KAREN M
320 GULF BLVD 1A
BOCA GRANDE, FL 33921

MALOTT DOROTHY ANNE MARGARET +
320 GULF BLVD 1C
BOCA GRANDE, FL 33921

SHERWOOD CLARK T + JOY S
320 GULF BLVD 2F
BOCA GRANDE, FL 33921

MAHAFFEY WILLIAM H TR
320 GULF BLVD 5H
BOCA GRANDE, FL 33921

BRANHAM ANTHONY GREGG
320 GULF BLVD 4A
BOCA GRANDE, FL 33921

OBECK ERIC S + MARY L
320 GULF BLVD 3C
BOCA GRANDE, FL 33921

SANFORD GREGORY W
320 GULF BLVD 3G
BOCA GRANDE, FL 33921

SCHOENEBECK SIGRID
320 GULF BLVD 3F
BOCA GRANDE, FL 33921

ND KING FAMILY LTD PTNSP
320 GULF BLVD 2B
BOCA GRANDE, FL 33921

SCANLON JAMES W TR
320 GULF BLVD 4C
BOCA GRANDE, FL 33921

HORNER KATHARINE D TR
320 GULF BLVD 1B
BOCA GRANDE, FL 33921

BLALOCK RALPH + PATRICIA
320 GULF BLVD 2D
BOCA GRANDE, FL 33921

KING WALTER G + CHRISTINE M
320 GULF BLVD 5C
BOCA GRANDE, FL 33921

HAMILTON DORRANCE H TR +
320 GULF BLVD 5D
BOCA GRANDE, FL 33921

DONIGAN JAMES D + JANET
320 GULF BLVD 4D
BOCA GRANDE, FL 33921

BEAUMONT DINA M
320 GULF BLVD 3H
BOCA GRANDE, FL 33921

GROH FRITZ + MANUELA
320 GULF BLVD 3D
BOCA GRANDE, FL 33921

FORSELL LAURENCE L + ALICE M
320 GULF BLVD 2H
BOCA GRANDE, FL 33921

BEAUMONT DINA M
320 GULF BLVD 2C
BOCA GRANDE, FL 33921

SCHWEGMAN JACQUELINE W TR
320 GULF BLVD 3E
BOCA GRANDE, FL 33921

BENISEK GEORGE J TR
320 GULF BLVD 1D
BOCA GRANDE, FL 33921

FORSELL LAWRENCE L + ALICE M
320 GULF BLVD 2G
BOCA GRANDE, FL 33921

KILIAN J J + PATRICIA R TR
320 GULF BLVD 5E
BOCA GRANDE, FL 33921

TYNDALL MANAGEMENT CORP
320 GULF BLVD 5G
BOCA GRANDE, FL 33921

GULF SOUTH OUTFITTERS LLC
320 GULF BLVD 4B
BOCA GRANDE, FL 33921

HALSEY COLETTE
320 GULF BLVD 3A
BOCA GRANDE, FL 33921

ADVANTAIRA TRUST LLC
320 GULF BLVD 3B
BOCA GRANDE, FL 33921

CLOUGHLEY JAMES E 1/3 +
320 GULF BLVD 2E
BOCA GRANDE, FL 33921

CARPENTER DAVID C + KAREN B
320 GULF BLVD 2A
BOCA GRANDE, FL 33921

FERNANDEZ EMILIO + OTILLA TR
380 GULF BLVD 7
BOCA GRANDE, FL 33921

STEVENSON JENNA J TR
290 GULF BLVD 18
BOCA GRANDE, FL 33921

RAINMAKER GROUP LLC
540 GULF BLVD 8
BOCA GRANDE, FL 33921

TIITF/REC + PARKS
610 GULF BLVD
BOCA GRANDE, FL 33921

EDWARDSON JOHN A
596 GULF BLVD
BOCA GRANDE, FL 33921

DEBOEST BLAKE L + VICTORIA W
570 GULF BLVD 10
BOCA GRANDE, FL 33921

PRAHL CAROLYN H
540 GULF BLVD 10
BOCA GRANDE, FL 33921

ALEXMOR PROPERTIES II LLC +
540 GULF BLVD 9
BOCA GRANDE, FL 33921

ZENERE COLLEEN TR
540 GULF BLVD 3
BOCA GRANDE, FL 33921

JOYCE WILLIAM + JANET R TR
540 GULF BLVD 7
BOCA GRANDE, FL 33921

MCDONALD SARAH M
540 GULF BLVD 6
BOCA GRANDE, FL 33921

ELMES GEORGE A + VICKI L
540 GULF BLVD 2
BOCA GRANDE, FL 33921

BLEMKER DAVID L + ANN L
540 GULF BLVD 1
BOCA GRANDE, FL 33921

SUNDOWN COLONY ASSN
422 GULF BLVD
BOCA GRANDE, FL 33921

SEAGRAPE COLONY
SEAGRAPE COLONY C/E
BOCA GRANDE, FL

BOCA GRANDE BEACH CLUB
BOCA GRANDE BEACH CLUB C/E
BOCA GRANDE, FL

GULF VILLAS HOMEOWNERS ASSN
GULF VILLAS C/E
BOCA GRANDE, FL

BOCA BAY MASTER ASSN INC
130 GULF BLVD
BOCA GRANDE, FL 33921

GASPARILLA INN INC
500 PALM AVE
BOCA GRANDE, FL 33921