Natural Resource Damage Assessment (NRDA) PCB-LAGUNA BEACH SANITARY SEWER

A. General Information

Organization:	City of Panama City Beach, Florida		
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B. Project Information

Project Name:	PCB Laguna Beach Sanitary Sewer System Project		
Location:	Unincorporated Bay County (Panama City Beach utilities service area) – Between Front Beach Road, US 98 and Panama City Beach Pkwy, Alt US 98		
State:	FL	County:	Bay
Watershed/Basin Outfall:	Gulf of Mexico		
Lat/Longitude:	30° 14'21"N 85°55'25"'W	Project Area:	0.9 miles of coastline, 220 acres

C. Project Description

The project is part of the City of Panama City Beach's long term plan to provide sanitary sewer service in older beach communities that predate the City municipal sewer system. In excess of 1,000 residential lots are within the Laguna Beach Sanitary Sewer project service area and homes are currently relying on septic tanks for sewer disposal. The area lies within a stormwater drainage basin that flows to dune lakes north of Front Beach Road (FBR), ultimately crossing FBR via drain pipes to the gulf beaches. Any marginally treated septic tank leachate from homes can work its way to the freshwater lakes via groundwater and be discharged to the gulf. The Florida Department of Health routinely samples and tests waters near shore in this vicinity for enterococcus and fecal coliform levels. Warnings/advisories have been issued 5 times since 2007, with the most recent being February 21, 2011. The testing does not determine the source of the bacteriological

elements, but reduction of septic tanks by installation of a municipal sewer system would remove a significant source of those elements from the groundwater moving to the dune lakes. Improvement in water quality has far ranging benefits to marine life and the public.

D. Project Type(s)

- ✓Restoration
- ✓Debris Removal
- ✓Maintenance/Management
- ✓Protection
- ✓Education

E. Project Habitat(s)

- ✓Upland
- ✓Beach/Dune
- ✓Freshwater Wetlands
- ✓Subtidal (Nearshore/Offshore)

F. Resource Benefit(s)

- ✓Marine Mammals
- ✓Shellfish
- ✓Water Column
- ✓Birds
- ✓Reptiles/Amphibians
- ✓Shoreline
- ✓Fish
- ✓Vegetation
- ✓Human Use (Recreational, Cultural)
- ✓Sea Turtles and Dune Nesting Birds

G. Project Status

Project/Resource Acquisition:	Small parcel of land (less than 4,000 s.f.) is needed for planned sewer pump station in each of three areas and preliminary design is based on use of currently vacant lots.
Time to implement:	Design and permitting could start within 1 month of funding, with construction start within 9 months of funding
Project Planning/Design:	Conceptual plan is complete.
Time to Project Completion:	14 month construction duration

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H. Project Costs

Estimated Cost:	$3,004,900	for Area "A" - West Area
	$1,860,200	for Area "B" - Central Area
	$2,596,700	for Area "C" - East Area
Project Total	$7,461,800	