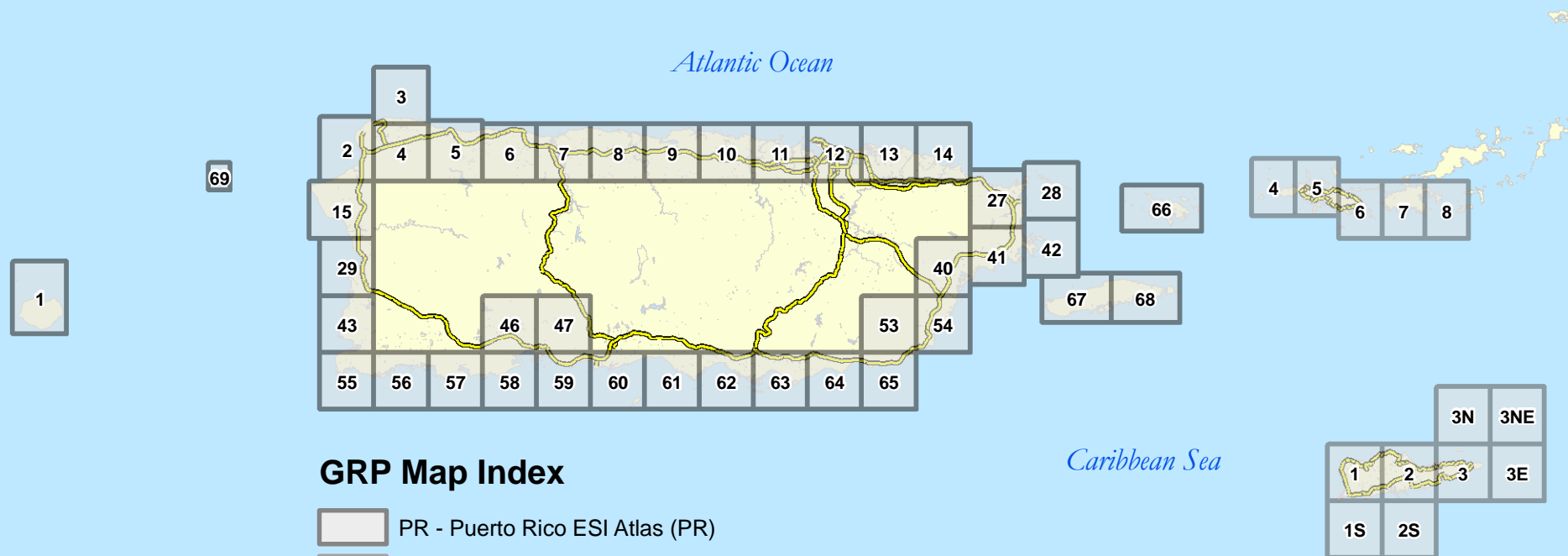


Sector San Juan

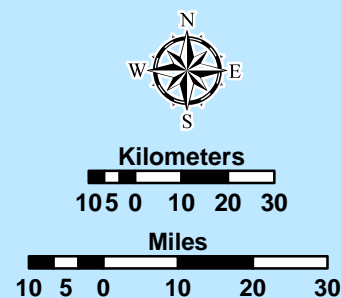
Geographic Response Plan Map Index



GRP Map Index

- PR - Puerto Rico ESI Atlas (PR)
- VI - U.S. Virgin Islands ESI Atlas (VI)*

Note: GRP maps named using prefix (PR or VI) and grid number. Ex. PR-66, VI-3
 *GRP Index grids ending with cardinal directions do not have an associated ESI map.



Geographic Response Plan Map: PR-1

67°52'30"W



67°52'30"W

Environmentally Sensitive Areas Priority of Protection - Summer

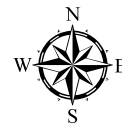
- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🚢 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦅 Pelican Nesting Area

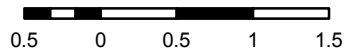
- ☀️ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



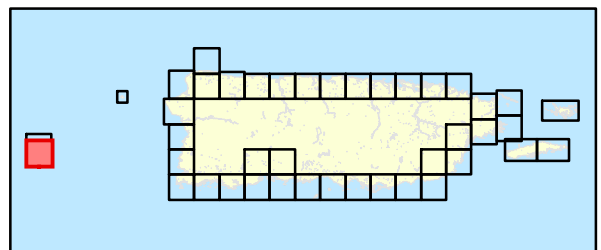
Miles



US Coast Guard
Sector San Juan



Florida Fish and Wildlife
Conservation Commission



Name: MONA AND MONITO ISLANDS

Site ID:

A20

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 7' 0.001" N

Longitude (DMS): 67° 53' 0.000" W

County: Mayagüez

Latitude (DD): 18.11666699

Longitude (DD): -67.88333301

SCAT Division: Mayagüez County Division 3

ESI Map: PR-1

ESI Name: ISLA MONA, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-A7

QUAD Name: Isla Mona

Managed Area (if applicable): Ressaerva Natural Isla de Mona

General Location: Isla de Mona e Islote Monito

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. State Historic - Preservation Office (SHPO) Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts, and pottery shards. Contact SHPO at the above number.

Habitat: Exposed vertical rocky shores and sea walls, coarse grained sand beaches, mixed sand and gravel beaches and till, and exposed rocky platform.

Wildlife: Diving birds, sea turtles, seabirds and gulls, wading birds, White tailed Tropic bird, Magnificent frigate bird, Brown booby, Seagrass beds, Red Footed Booby, Coral reefs, Masked Booby, and Humpback Whale migration route.

Threaten/Endangered Species: Hawksbill, Green and Leatherback Turtles and Brown Pelican.

Socio-Economic Resources: QUESTION: What about Mona Ground Iguanas? At risk during mating on beaches. Ask Felix Lopez USFWS or Craig Lilyestrom PR DNER Jim J. NOAA

RESPONSE CONSIDERATIONS

Staging Area: Boat: Commercial boat transportation can be obtained from Puerto Real Marina. Helicopter: Helicopters may land on cement pad near lighthouse. Coast Guard Aids To Navigation Team maintains the pad. Aircraft: A small grassy airstrip exists on the island.

Collection Points:

Area Access: helicopter/boat

Spill Risk:

Response Resources: AVAILABLE ON SITE RESOURCE: DNER headquarters.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

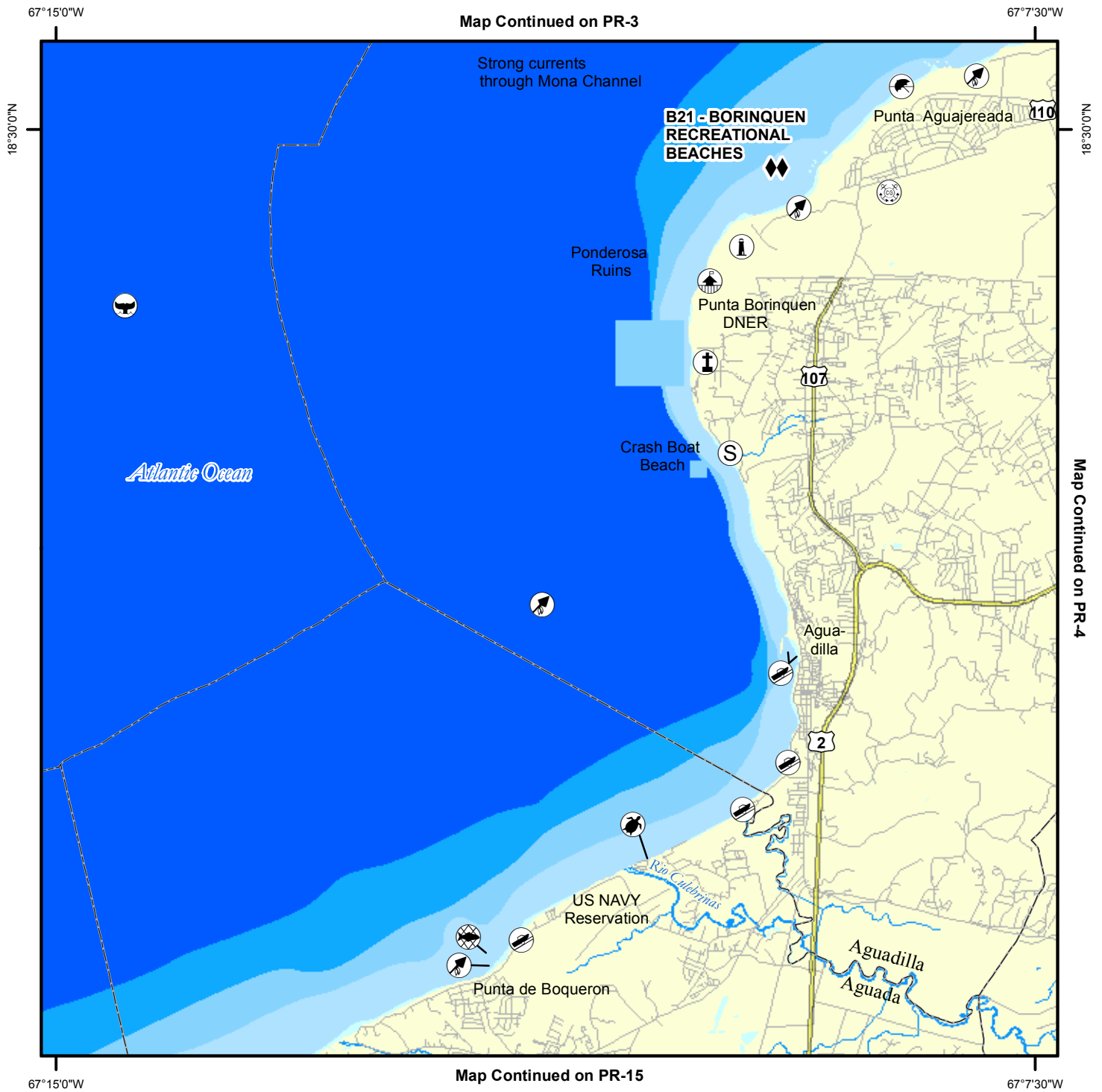
Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies not normally feasible. Depending on sea state, consider deployment of deflection boom along shore from PTE. Este. Conduct open water recovery/dispersant operations before oil impacts island. Consider deploying wildlife control measures to protect birds. OTHER SIGNIFICANT INFO: Area of frequent groundings, from Punta Este to Playa de Pajaros on the southeastern part on the island.



Geographic Response Plan Map: PR-2



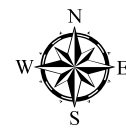
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛️ Archaeological Site

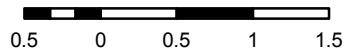
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥️ Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐾 Pelican Nesting Area
- ☀️ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts



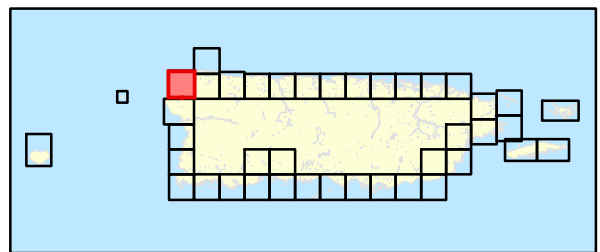
Miles



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: BORINQUEN RECREATIONAL BEACHES

Site ID:

B21

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: High recreation, tourist and surfing area, fishing village.

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 29' 42.815" N

Longitude (DMS): 67° 9' 31.632" W

County: Aguadilla

Latitude (DD): 18.49522638

Longitude (DD): -67.15878674

SCAT Division: Aguadilla County Division 1

ESI Map: PR-2

ESI Name: AGUADILLA, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-D2

QUAD Name: Aguadilla

Managed Area (if applicable):

General Location: Borinquen

CONTACT INFORMATION

Contacts: P.R. DNER Ranger Corps - Command Center- (787) 724-5700, (787) 882-5827; PR DNER - Aguadilla - Ranger Corps - (787) 822-5893, (787) 882-5752; P.R. State Historic Preservation Office (SHPO)- Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Coral reefs and vertical cliffs, rocky shores, gravel beaches and riprap.**Wildlife:** A migration path for humpback whales is approximately 1/2 mile offshore (December - March).**Threaten/Endangered Species:** Brown pelican. Manatees at Shacks Beach.**Socio-Economic Resources:** Historical site: Old lighthouse, subaquatic resource (ponderosa ruins). Contact SHPO at above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Playa Corcega has many paved and unpaved roads running parallel to the beach. Boat: Boat ramps located at Shacks Beach near Aguadilla, john boats launch from Corcega. Aircraft: Air Station Boringuen (Rafael Hernandez) has longest strip.

Collection Points:**Area Access:** aircraft/boat/helicopter**Spill Risk:****Response Resources:**

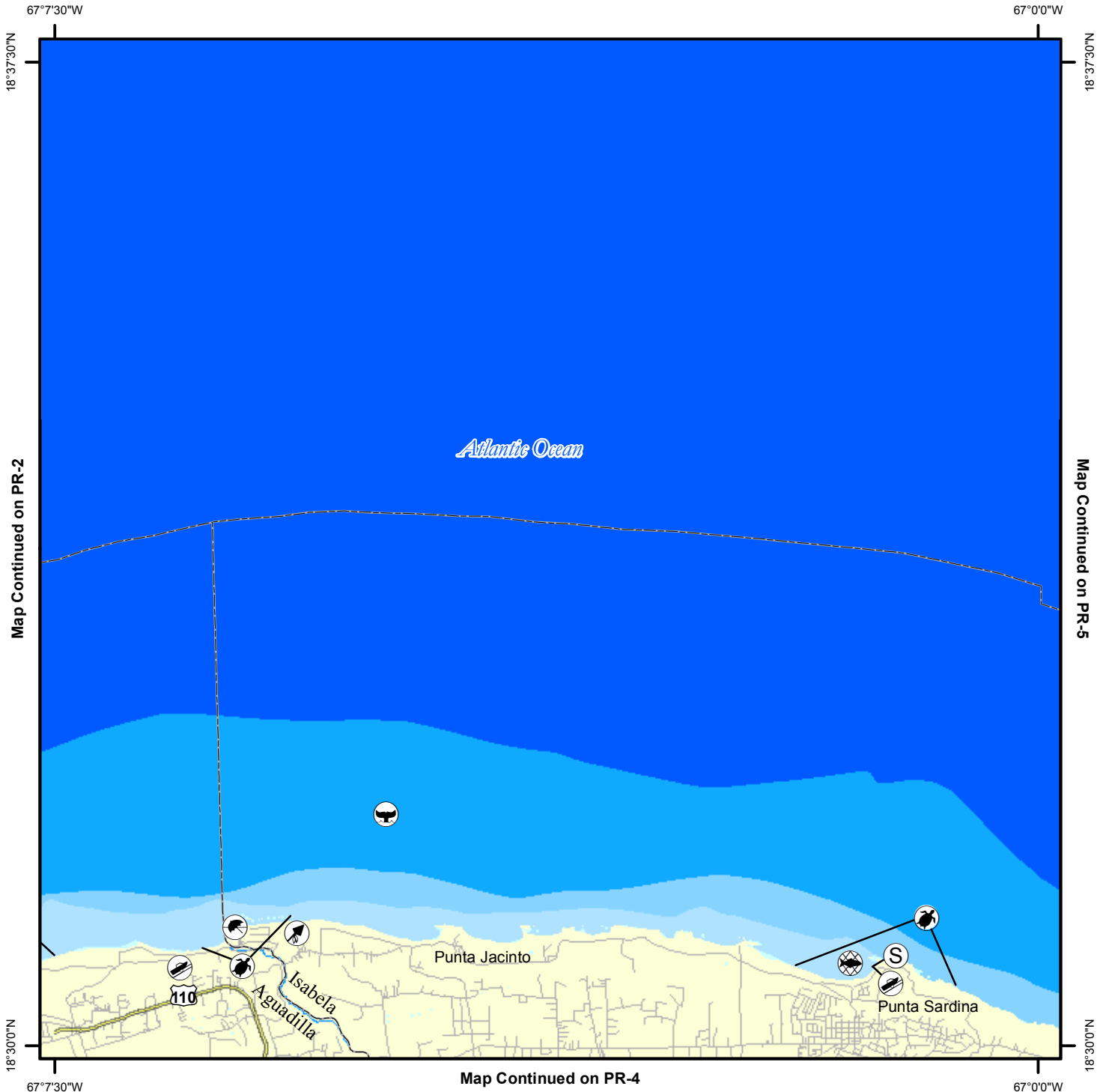
PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Diversion booming should be considered. Strong currents through Mona Channel.



Geographic Response Plan Map: PR-3



Environmentally Sensitive Areas
Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

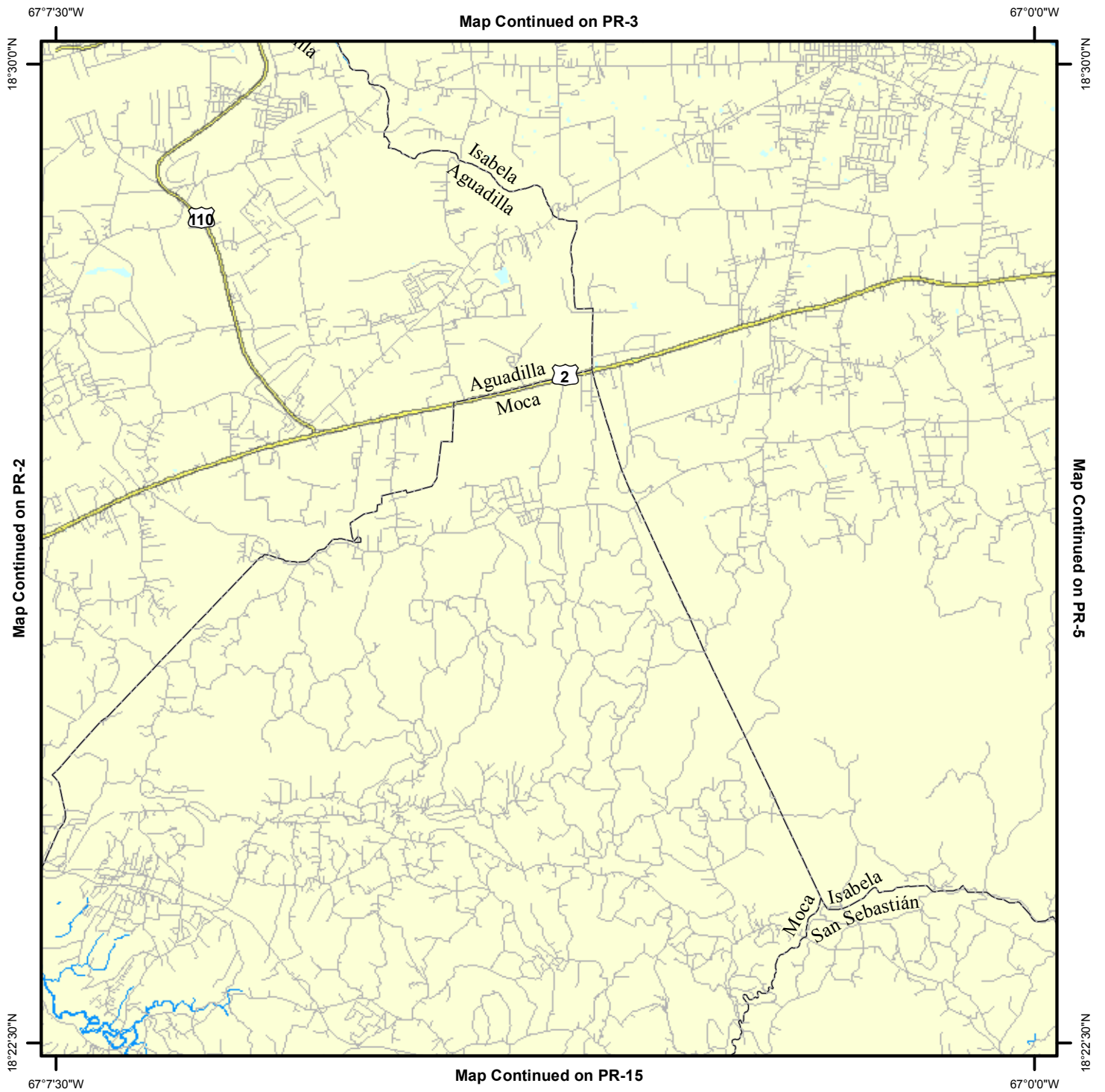
- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🚢 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦅 Pelican Nesting Area
- ☀️ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts

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Geographic Response Plan Map: PR-4



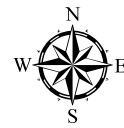
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛️ Archaeological Site

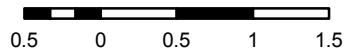
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥️ Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦆 Pelican Nesting Area
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- 🌳 State Forest/High Recreation Area
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- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts



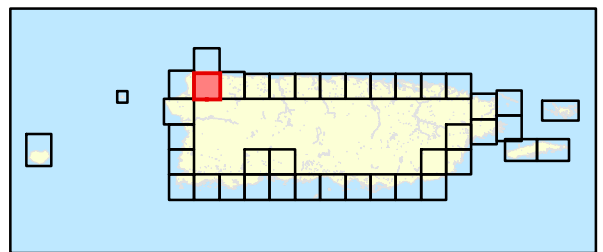
Miles



US Coast Guard
Sector San Juan

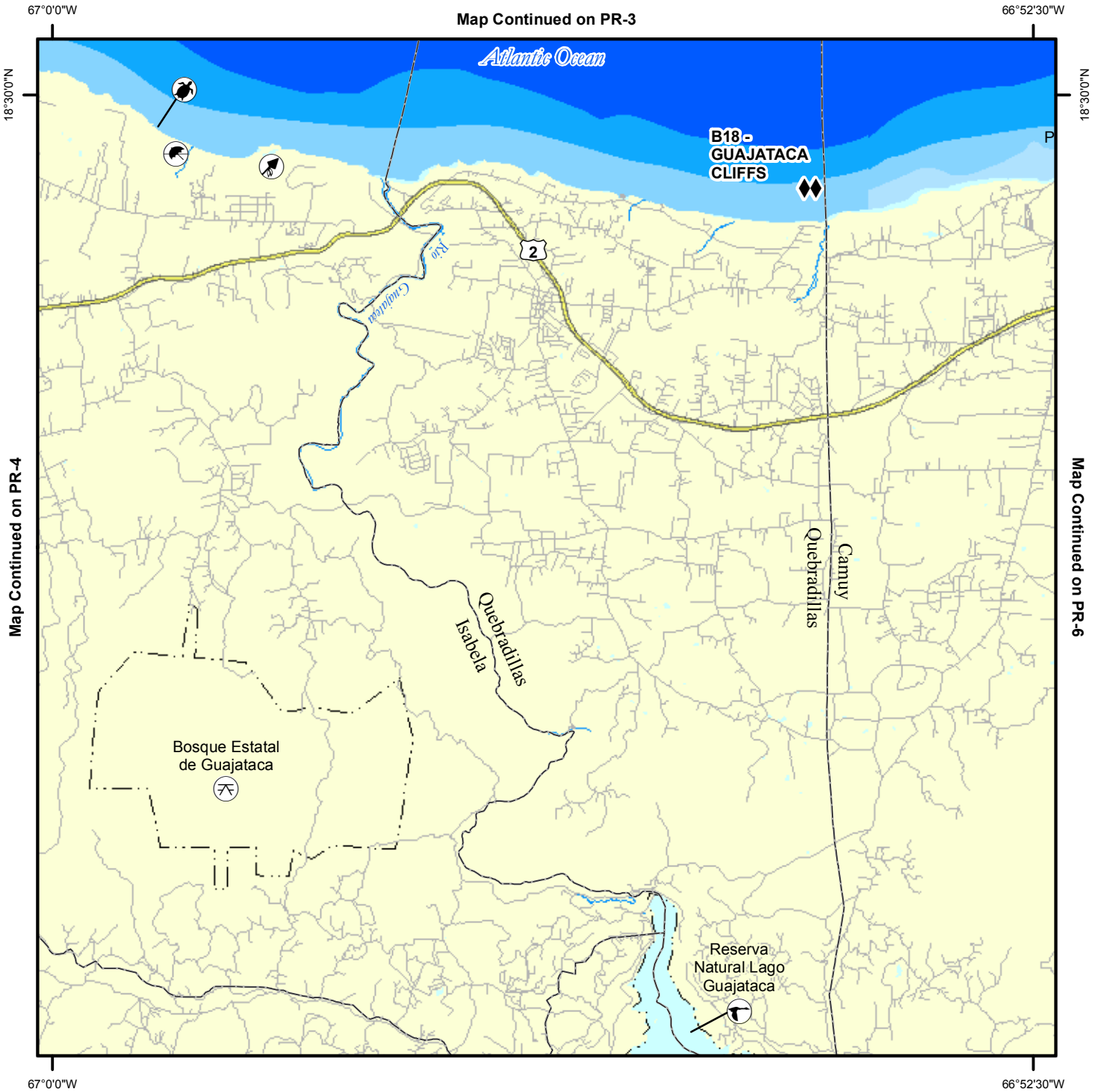


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Geographic Response Plan Map: PR-5

Map Continued on PR-3



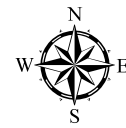
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

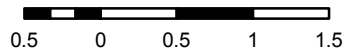
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🚢 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦆 Pelican Nesting Area
- ☀️ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- 🐠 Coral Reef
- 🐢 Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts



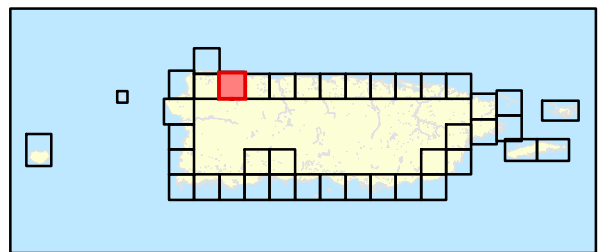
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US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: GUAJATACA CLIFFS

Site ID:

B18

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 29' 17.575" N

Longitude (DMS): 66° 54' 15.266"

County: Quebradillas

Latitude (DD): 18.48821519

Longitude (DD): -66.90424049

SCAT Division: Quebradillas County Division 1

ESI Map: PR-5

ESI Name: QUEBRADILLAS, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D8

QUAD Name: Quebradillas

Managed Area (if applicable):

General Location: San José

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord.Oil Spills - (787) 724-5700; P.R. DNER Arecibo - (787) 878-9048, (787) 878-7279; NOAA - Brad Bengio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Sixteen miles of exposed vertical rocky shores, seawalls and coarse grained sand beaches.**Wildlife:** Sea turtles, diving and wading birds.**Threaten/Endangered Species:** Hawksbill sea turtle.**Socio-Economic Resources:** White tailed tropic bird.

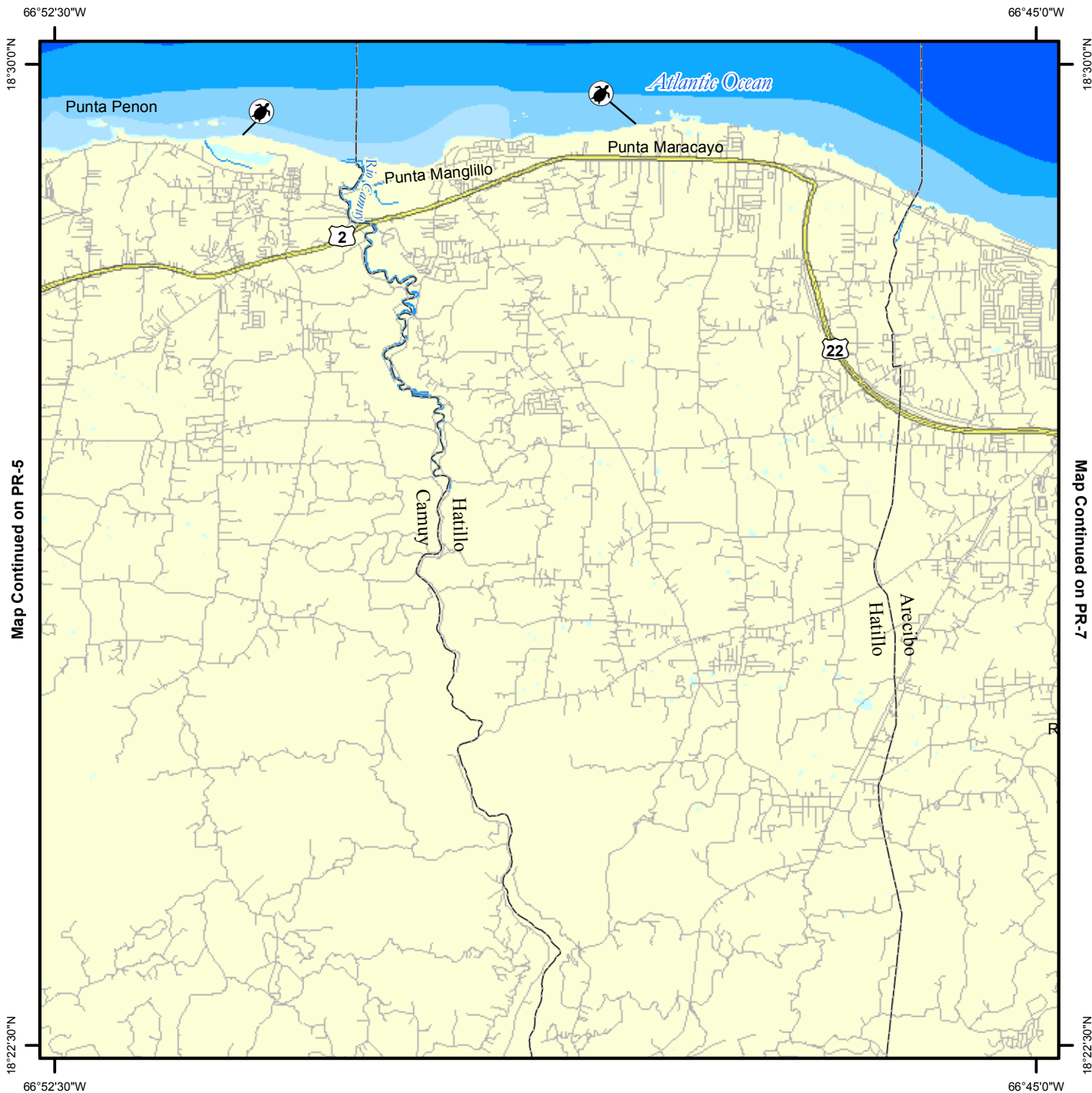
RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Dirt and sand road.**Collection Points:****Area Access:** Vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Nearshore protection strategies are not normally feasible in this area.

Geographic Response Plan Map: PR-6



Environmentally Sensitive Areas
Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛️ Archaeological Site

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥️ Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area

- ☀️ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- 🐢 Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts

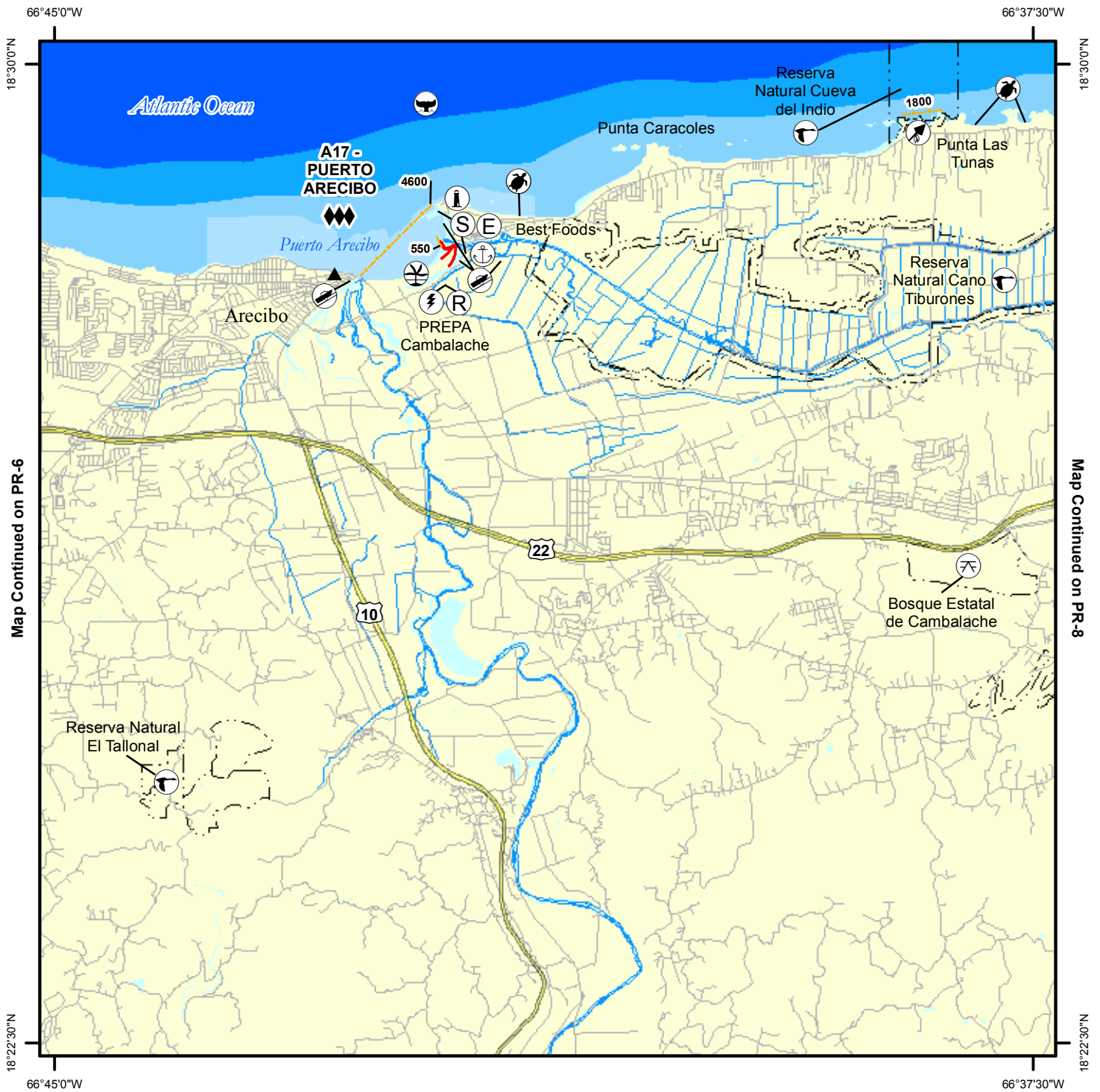
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US Coast Guard Sector San Juan

Florida Fish and Wildlife Conservation Commission

Geographic Response Plan Map: PR-7



Map Continued on PR-6

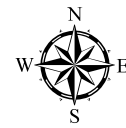
Map Continued on PR-8

Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site
- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
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- 🌲 National Park
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- 🌊 NERR
- 🌿 Mangroves
- 🐠 Coral Reef
- 🐢 Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



Miles

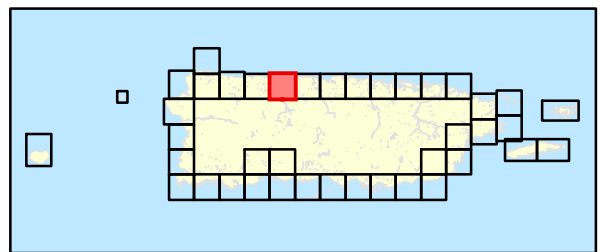
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US Coast Guard
Sector San Juan



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Research Institute



Name: PUERTO ARECIBO

Site ID:

A17

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 28' 45.515" N

Longitude (DMS): 66° 42' 44.308"

County: Arecibo

Latitude (DD): 18.47930965

Longitude (DD): -66.71230767

SCAT Division: Arecibo County Division 1

ESI Map: PR-7

ESI Name: ARECIBO, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D6

QUAD Name: Arecibo

Managed Area (if applicable):

General Location: Arecibo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Arecibo - Oil Spills - (787) 878-7279 or (CEL) 383-6576; P.R. DNER - Arecibo - (787) 872-6671; P.R. DNER, Arecibo (Alt) - (787) 872-8632; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Mangroves, fine grained sandy beaches, sheltered rocky shores and seawalls.**Wildlife:** None reported.**Threaten/Endangered Species:** Brown Pelican.**Socio-Economic Resources:** Fishing villages, marina and recreational beaches. Puerto Arecibo lighthouse

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is along waterfront road. Boat: A boat ramp is located at the Arecibo Yacht Club.**Collection Points:****Area Access:** aircraft/boat/vehicle**Spill Risk:****Response Resources:** Aircraft: Arecibo airport

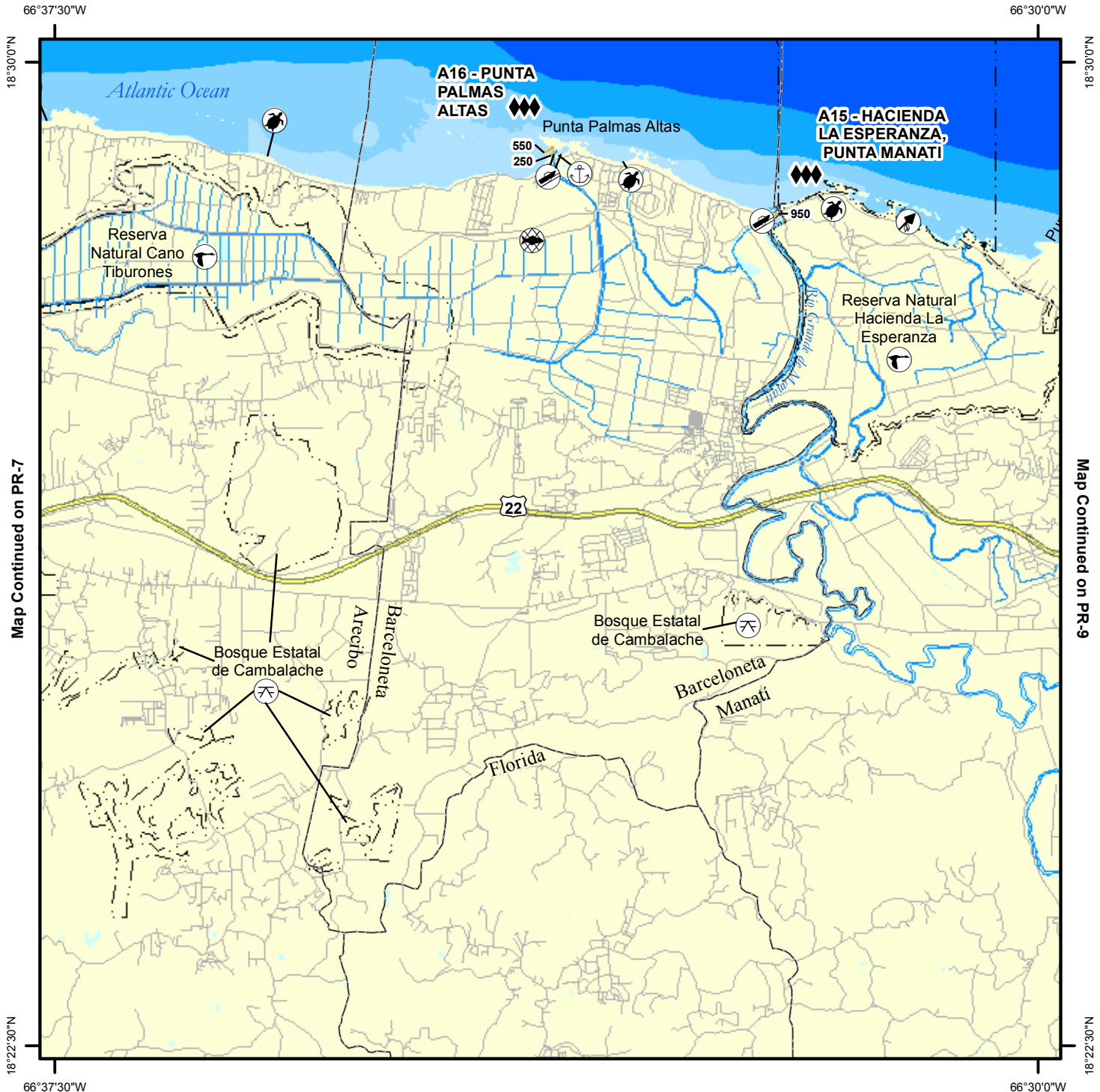
PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Use oil snare on the rocky areas if seas allow it. Place boom at entrance to Rio Grande de Arecibo. Protect inlet on west end of bay with boom. Marina located up river, so vessel access is an issue. Deploy three tiered herringbone boom to create a zig zag channel.



Geographic Response Plan Map: PR-8



Environmentally Sensitive Areas
Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
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- 🏠 Archaeological Site

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
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- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- 🐢 Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts

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SECTOR SAN JUAN
U.S. COAST GUARD

FISH AND WILDLIFE
RESEARCH INSTITUTE

Name: HACIENDA LA ESPERANZA, PUNTA MANATI

Site ID:

A15

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve, Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 29' 9.469" N

Longitude (DMS): 66° 31' 48.940"

County: Manatí

Latitude (DD): 18.48596350

Longitude (DD): -66.53026103

SCAT Division: Manatí County Division 1

ESI Map: PR-8

ESI Name: BARCELONETA, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D5

QUAD Name: Barceloneta

Managed Area (if applicable): Reserva Natural Hacienda La Esperanza

General Location: Tierras Nuevas Poniente

CONTACT INFORMATION

Contacts: P.R. DNER - Ranger Corps - Command Center - (787) 724-5700; P.R. DNER Arecibo - Oil Spills - (787) 878-7279; NOAA - Brad Bengio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Exposed vertical rocky shores and seawalls, rocky platforms and coarse grained sandy beaches.

Wildlife: Sea turtles.

Threaten/Endangered Species: Hawksbill sea turtles.

Socio-Economic Resources: Acropora Palmata just east of river mouth

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Road access is available via Rt. 684 to within 300 feet of channel entrance. The area between the road and the river mouth is extremely soft sand and is not recommended for vehicle use.

Collection Points:

Area Access: vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 700

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 700 ft. of exclusion boom at entrance of the Rio Grande de Manati. The sandy area inside river entrance is a possible collection point.



Name: PUNTA PALMAS ALTAS

Site ID:

A16

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Cano Tiburones Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 29' 25.117" N

Longitude (DMS): 66° 33' 52.485"

County: Barceloneta

Latitude (DD): 18.49031020

Longitude (DD): -66.56457905

SCAT Division: Barceloneta County Division 1

ESI Map: PR-8

ESI Name: BARCELONETA, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D5

QUAD Name: Barceloneta

Managed Area (if applicable):

General Location: Palmas Altas

CONTACT INFORMATION

Contacts: P.R. DNER - Ranger Corps - Command Center - (787) 724-5700; P.R. DNER - Arecibo - (787)878-7279; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Salt marshes, gravel beaches and riprap, exposed vertical rocky shores and seawalls and fine grain sandy beaches.

Wildlife: Sea turtles and wading birds.

Threaten/Endangered Species: Sea turtles.

Socio-Economic Resources: Fishing village

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access from Rt. 681 is available. Boat: A 15 ft. wide boat ramp is located at a private pier directly of Rt. 681.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 800

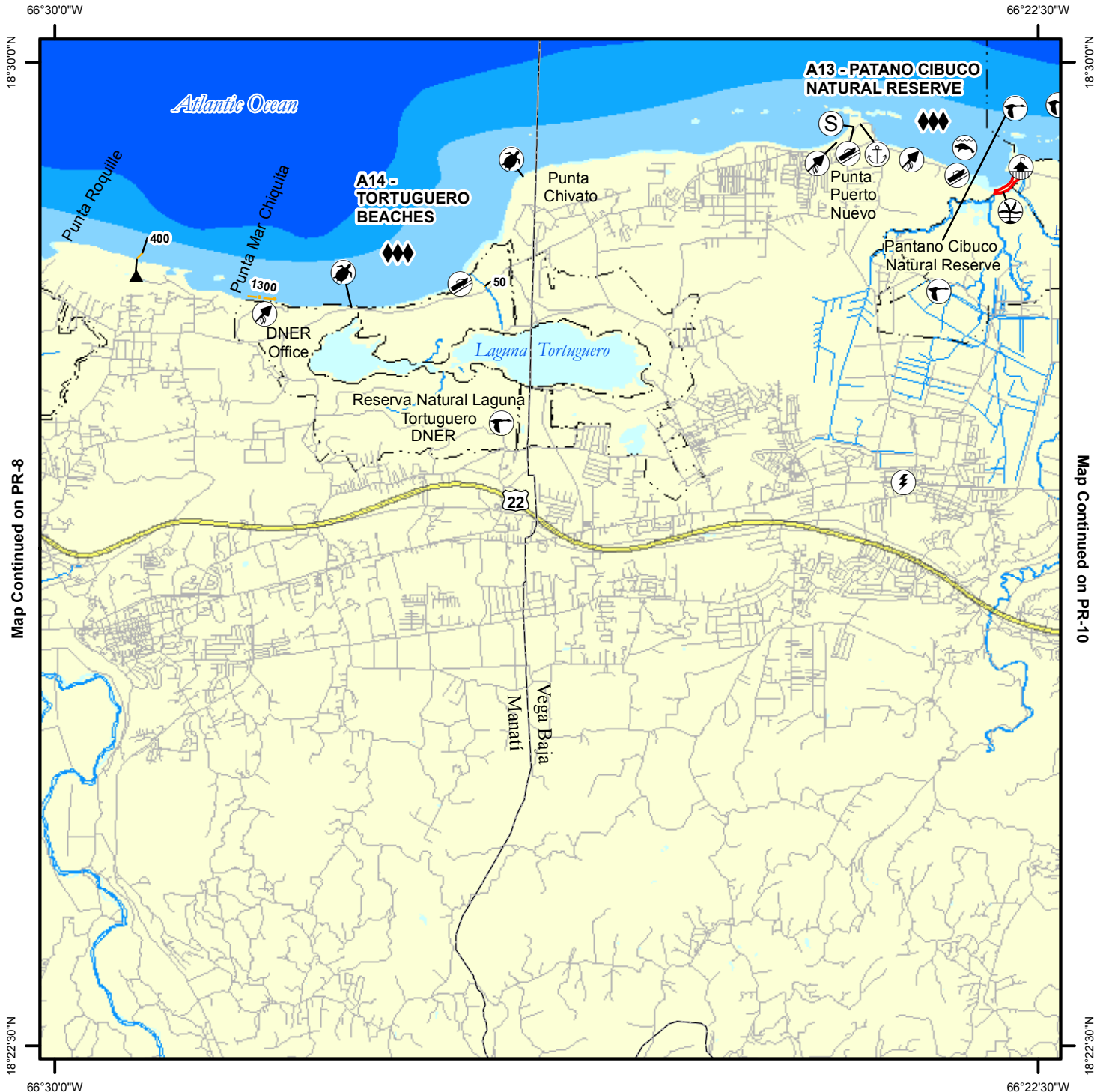
Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 800 ft. of exclusion boom inside the entrance of the marsh to prevent oil from entering area at periods of high tides. Breakers and rocks at mouth of the marsh do not allow for boom deployment.



Geographic Response Plan Map: PR-9



Environmentally Sensitive Areas
Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏛 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- 🐢 Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalties/USVI Districts

N
W E
S

Miles
0.5 0 0.5 1 1.5

US Coast Guard Sector San Juan
Fish and Wildlife Research Institute

Name: PANTANO CIBUCO NATURAL RESERVE

Site ID:

A13

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 29' 35.999" N

Longitude (DMS): 66° 23' 0.000" W

County: Vega Baja

Latitude (DD): 18.49333300

Longitude (DD): -66.38333301

SCAT Division: Vega Baja County Division 1

ESI Map: PR-9

ESI Name: MANATI, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D4

QUAD Name: Manati

Managed Area (if applicable): Reserva Natural Pantano Cibuco

General Location: Puerto Nuevo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 723-3045; P.R. DNER - San Juan - Oil Spills - (787) 723-1871 or (787) 722-5028 or (CEL) 383-6631; P.R. DNER - San Juan - (787) 722-4991, P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Coarse and fine grained sandy beaches, exposed rocky platforms, exposed vertical rocky shores and seawalls and riverine m**Wildlife:** Sea turtles and Land Crab.**Threaten/Endangered Species:** West Indian Manatee.**Socio-Economic Resources:** None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Limited access is available along the water front road. Boat: A 20 ft. wide boat ramp is located at Vega Alta fishing village. The ramp is in poor condition and in very shallow water.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 800**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: The lagoon is not normally open to the sea. Construct underflow dam if lagoon has breached through the sandy beach, or deploy 800 ft. of exclusion boom at the lagoon entrance.



Name: TORTUGUERO BEACHES

Site ID:

A14

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve, Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 28' 42.848" N

Longitude (DMS): 66° 27' 20.305"

County: Manatí

Latitude (DD): 18.47856878

Longitude (DD): -66.45564034

SCAT Division: Manatí County Division 1

ESI Map: PR-9

ESI Name: MANATI, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D4

QUAD Name: Manati

Managed Area (if applicable): Reserva Natural Laguna Tortuguero

General Location: Tierras Nuevas Saliente

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. Oil Spills - (787) 724-5700; P.R. DNER - Arecibo - (787) 878-8577; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Coarse grain sandy beaches, exposed rocky shores and platforms.

Wildlife: Sea turtles, seabirds, wading birds, wildlife reserve and Cibuco swamp.

Threaten/Endangered Species: Brown Pelican, Leatherback, Green and Hawksbill sea turtles.

Socio-Economic Resources: Archeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Along waterfront road, Rt. 686. Aircraft: An airstrip is located next to area, but its condition is unknown.

Collection Points:

Area Access: aircraft/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection is not normally feasible in this area. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-10



Environmentally Sensitive Areas
Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts

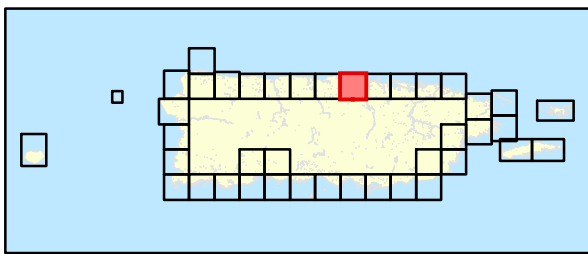
Other Symbols:

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌴 Mangrove
- ⚓ Marina
- 🦅 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Miles

0.5 0 0.5 1 1.5

US Coast Guard Sector San Juan Fish and Wildlife Research Institute



Geographic Response Plan Map: PR-11



Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦆 Pelican Nesting Area

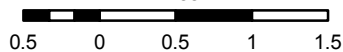
- ☀️ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- 🐢 Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalties/USVI Districts



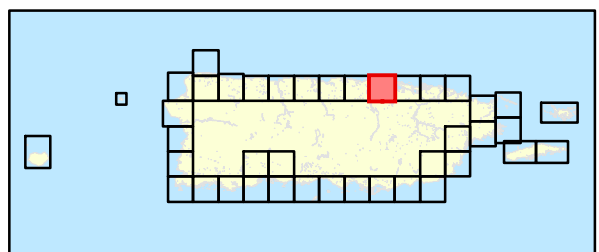
Miles



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: PALO SECO PENINSULA

Site ID:

A7

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 12.132" N

Longitude (DMS): 66° 7' 31.023" W

County: Cataño

Latitude (DD): 18.45336989

Longitude (DD): -66.12528429

SCAT Division: Cataño County Division 1

ESI Map: PR-11

ESI Name: BAYAMON, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D2

QUAD Name: Bayamon

Managed Area (if applicable):

General Location: Palmas

CONTACT INFORMATION

Contacts: P.R. DNER - PO Box 366147, Rio Piedras P.R. 00936 and P.R. DNER, Sector El & Cinco # 5, Carr. # 838, KM 6.3, Rio Piedras, P.R. 00936 - P.R. DNER Emerg. Coord., Oil Spills- (787) 724-5700 or (787) 999-2200, Maritime Law Enforcement - (CEL) 502-0850; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Coarse grained sandy beaches, mangroves, gravel beach and rip-rap, shellfish, crustacean and seagrass beds. The small inner bay created by the peninsula is an important bird feeding area.

Habitat: Coarse grained sandy beaches, mangroves, gravel beach and riprap, shellfish, crustacean and seagrass beds.

Wildlife: Frigate bird, seabirds and wading birds, shellfish, crustaceans

Threaten/Endangered Species: Brown Pelican

Socio-Economic Resources: High recreational area including shore fishing

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Along Catano waterfront road, and from the Bacardi Plant. Boat: Access is limited by extremely shallow water (1 - 2 Ft.).

Collection Points:

Area Access: Vehicle/Boat

Spill Risk:

Response Resources: The Catano commercial coop has potential resources to assist. The fishing coop is located along the shore road at Catano. Contact via PR Department of Agriculture.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 2500

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 2,500 Ft. of exclusion boom from the tip of the peninsula to the Catano shoreline. Note: Local fishermen will go through the boom, so it has to be monitored frequently, especially at night. A channel should be provided through the boom if possible by overlapping the ends of the boom. Deploy control measures to protect birds.



Name: BAYAMON RIVER (SAN JUAN BAY)

Site ID:

A8

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Mouth of Bayamon River, Sandy Beach where river releases

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 47.306" N

Longitude (DMS): 66° 8' 19.026" W

County: Toa Baja

Latitude (DD): 18.46314068

Longitude (DD): -66.13861844

SCAT Division: Toa Baja County Division 1

ESI Map: PR-11

ESI Name: BAYAMON, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D2

QUAD Name: Bayamon

Managed Area (if applicable):

General Location: Palo Seco

CONTACT INFORMATION

Contacts: PR DNER - Emergency Coordinator - (787) 724-5700; P.R. DNER - San Juan - Oil Spills - (787) 723-1871 or (787) 722-5028 or (CEL) 383-6631; P.R. DNER - San Juan - (787) 722-4991; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Sandy Beach at river mouth and waterway itself. Heavy Mangrove along river shoreline

Habitat: Sandy Beach, River Watershed, Mangroves

Wildlife: Seabirds and wading birds

Threaten/Endangered Species: Brown Pelicans

Socio-Economic Resources: None Reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Along Catano waterfront road, and Bacardi Plant from end of Palo Seco Road to Isla de Cabras. Boat: Access is limited by extremely shallow water (1-2ft).

Collection Points:

Area Access: Vehicle/Boat

Spill Risk:

Response Resources: See PREPA oil spill plan

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method: Containment/Protection/Exclusion

Protection Strategy: Place containment boom at the mouth of the river to prevent outflow from a spill up river, or influx of oil into heavy shoreline mangrove growth up river. Oil will migrate up river if wind and tides are right from a spill in San Juan Bay.



Name: PREPA PALO SECO

Site ID:

A10

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 29.112" N

Longitude (DMS): 66° 9' 15.408" W

County: Toa Baja

Latitude (DD): 18.45808676

Longitude (DD): -66.15428006

SCAT Division: Toa Baja County Division 1

ESI Map: PR-11

ESI Name: BAYAMON, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D2

QUAD Name: Bayamon

Managed Area (if applicable):

General Location: Palo Seco

CONTACT INFORMATION

Contacts: PREPA - PALO SECO - PREPA - Carr. # 653 Centro Villa de Los Santos; Arecibo; PR 00613; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Water intake to PREPA plant.

Wildlife: Manatees.

Threaten/Endangered Species: Manatees.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Highway 165 to Palo Seco Road.

Collection Points:

Area Access: vehicle

Spill Risk:

Response Resources: There is a sunken tank barge on the west side of Isla de Cabras and a boat ramp.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 200

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 200 Ft. of exclusion boom across the water intake.



Name: BAYAMON, RIO HONDO CANALS AND PUNTA SALINAS

Site ID:

A11

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 12.116" N

Longitude (DMS): 66° 10' 8.420" W

County: Toa Baja

Latitude (DD): 18.45336568

Longitude (DD): -66.16900563

SCAT Division: Toa Baja County Division 1

ESI Map: PR-11

ESI Name: BAYAMON, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D2

QUAD Name: Bayamon

Managed Area (if applicable):

General Location: Sabana Seca

CONTACT INFORMATION

Contacts: P.R. DNER - PO Box 366147, Rio Piedras P.R. 00936 and P.R. DNER, Sector El & Cinco # 5, Carr. # 838, KM 6.3, Rio Piedras, P.R. 00936 - P.R. DNER Emerg. Coord., Oil Spills - (787) 724-5700 or (787) 999-2200; Maritime Law Enforcement - (CEL) 502-0450; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Gravel beaches and riprap, coarse grain sandy beaches, mixed sand, gravel and fine grained sandy beaches and sea birds and feeding birds.

Wildlife: Mangroves, hawksbill, sea turtles, bird nesting sites and manatees.

Threaten/Endangered Species: Manatees.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Mouth of canals can be seen from Route 165, but access is limited. Boat: Small boats may enter canals by sea during calm sea condition.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Shallow boat ramp at public beach on west side of Punto Salinas

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 800**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Deploy 800 ft. of exclusion boom in the rivers and inside of the jetties. Deploy the boom south (shoreward) of the Highway 165 Bridge so swells entering canals don't disturb the boom. Offshore oil will drift into this bay and impact the shoreline from the Bayamon Canal westward to the riprap at Punta Salinas. PRANG radar site at Punta Salinas is a restricted area. Several manatees have been reported in this bay. Some are likely permanent residents near the eastern tip of Punta Salinas. Oil will also come ashore in cove at tip of Punta Salinas. Access is via the prang gate.



Name: COCAL RIVER

Site ID:

A93

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 28' 19.632" N

Longitude (DMS): 66° 11' 38.159"

County: Toa Baja

Latitude (DD): 18.47212003

Longitude (DD): -66.19393313

SCAT Division: Toa Baja County Division 1

ESI Map: PR-11

ESI Name: BAYAMON, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D2

QUAD Name: Bayamon

Managed Area (if applicable):

General Location: Mameyal

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - San Juan - Oil Spills - (787) 999-2000 or (CEL) 502-0450; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Protect magroves, coarse grained sandy beached and rip-rap**Habitat:** Mangroves, Beach**Wildlife:** Waterfowl, shorebirds and wading birds**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Only access is off of Rt. 165. Boat: Boat access**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Deploy boom across the river mouth to keep oil out of the inland mangroves. Deploy wildlife control measures to protect birds.

Name: EL CANUELO AND PARK

Site ID:

B9

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 53.755" N

Longitude (DMS): 66° 8' 2.183" W

County: Toa Baja

Latitude (DD): 18.46493200

Longitude (DD): -66.13393980

SCAT Division: Toa Baja County Division 1

ESI Map: PR-11

ESI Name: BAYAMON, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D2

QUAD Name: Bayamon

Managed Area (if applicable):

General Location: Palo Seco

CONTACT INFORMATION

Contacts: U.S. National Park Service - (787) 729-6960; P.R. Civil Defense - (787) 724-0124; Club Pesca de Isla de Cabras - Evelio J. Mini - (787) 788-0440; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Sandy beach and rocky shore and rip-rap**Habitat:** Sandy beach and rocky shore and rip-rap**Wildlife:** Brown Pelicans and Manatees.**Threaten/Endangered Species:** Brown Pelicans and Manatees.**Socio-Economic Resources:** Historical site, ruins. El Canuelo Fort on Isla de Cabras belongs to NPS. Colony ruins are on fishing club property.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Along Catano waterfront road. Highway 165 to Palo Seco Road to Isla de Cabras. Boat: Access is limited by extremely shallow waters (1-2 ft.) There is a boat launch at the Shooting Club on the west side of Isla de Cabras.**Collection Points:****Area Access:** Vehicle/Boat**Spill Risk:****Response Resources:** There is a police shooting range, a private shooting club, a private fishing club, a small cantina, and the Ports Authority Control Tower on Isla de Cabras. There is also a small dock at the south end of Isla de Cabras.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:** Containment/Deflection/Protection/Exclusion

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Consider diversion booming. This is a likely collection area for most spills in San Juan Harbor. Suggest protective boom around foundation of El Canuelo to protect fort. Boom will have to be deployed from the shoreline, with the assistance from a boat, to protect El Canuelo. This area is an important oil collection area. Oil spilled in San Antonio Channel, or the East side of San Juan Bay will likely end up along the rip-rap connection Palo Seco and Isla de Cabras, and also along the shoreline. Either boom protectively along the shoreline where possible, or set up collection booms. Good access for vacuum trucks and labor from shore.



Name: CERROMAR AND DORADO BEACH

Site ID:

B12

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Recreational beaches, tourist area Rio Cocal, mangrove wetlands, and the mouth of the Dorado River.

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 28' 26.025" N

Longitude (DMS): 66° 14' 1.439" W

County: Dorado

Latitude (DD): 18.47389590

Longitude (DD): -66.23373318

SCAT Division: Dorado County Division 1

ESI Map: PR-11

ESI Name: VEGA ALTA, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D2

QUAD Name: Vega Alta

Managed Area (if applicable):

General Location: Mameyal

CONTACT INFORMATION

Contacts: Hyatt Dorado Beach Hotel & Hyatt Cerromar Beach Hotel, Rd. 693, Dorado 00646 - Security Mngr. (787) 796-1234 x 3128; P.R. State Historic Preservation Office- Director(SHPO) - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Finely grained sandy beaches, gravel beaches, riprap, rocky shores, exposed rocky platforms and coarse grained beaches.**Wildlife:** Sea birds and wetlands.**Threaten/Endangered Species:** Brown pelican.**Socio-Economic Resources:** Archaeological sites in the area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Hyatt Dorado/Cerromar security have keys to nearby housing area. Cerromar has a maintenance road that leads directly to the beach. Highway 165 access to Rio Cocal. Access to Dorado River from the town of Dorado. Continued in other response.

Collection Points:**Area Access:** aircraft/boat/helicopter**Spill Risk:**

Response Resources: Boat Access: Ramps are located at Hyatt Dorado and one at nearby housing area. Aircraft Access: Hyatt Dorado/Cerromar security can be contacted for access to airport. (Runway length 3,400 ft)

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1200**Boom Type:****Booming Method:** Deflection/Protection/Exclusion

Protection Strategy: Deploy 1,200 ft. of diversion boom along the shoreline and use Boca San Juan as a collection point. Dorado Beach Hyatt has a man made breakwall approximately 100 ft. offshore. Oil could pass over the breakwall and impact the beach. Place protection boom across the Rio Cocal and Dorado River Mouths. There is a shellfish farm east of the Dorado River with intakes off the beach.



Geographic Response Plan Map: PR-12



Environmentally Sensitive Areas
Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts

Legend

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌿 NERR
- 🌿 Mangroves
- Coral Reef
- 🐢 Turtle Nesting

Scale

0.5 0 0.5 1 1.5 Miles

Compass Rose

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Logos

US Coast Guard Sector San Juan Fish and Wildlife Research Institute

Inset Map

Name: CONSTITUTION BRIDGE MUDFLATS

Site ID:

A4

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 26' 30.438" N

Longitude (DMS): 66° 5' 19.867" W

County: San Juan

Latitude (DD): 18.44178837

Longitude (DD): -66.08885202

SCAT Division: San Juan County Division 1

ESI Map: PR-12

ESI Name: SAN JUAN, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D1

QUAD Name: San Juan

Managed Area (if applicable):

General Location: Hato Rey Norte

CONTACT INFORMATION

Contacts: P.R. DNER, PO Box 366147, Rio Piedras, PR 00936 - P.R. DNER Emerg. Coord. - Oil Spills - (787) 724-5700, (787) 999-2200, (787) 724-5400 or (CEL) 502-0450 or (FAX) 722-2785; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Sheltered mangroves and mudflats. The mangroves to the North of the mouth of the Martin Pena Canal are part of an ACOE Wetland Restitution project.

Habitat: Sheltered Mangroves and mudflats. The mangroves to the north of the mouth of the Martin Pena Canal are part of an ACOE Wetland Restitution project.

Wildlife: Seabirds, wading birds, roseate and least terns and shorebirds.

Threaten/Endangered Species: Brown pelican and yellow-shouldered blackbird.

Socio-Economic Resources: Public waterway transportation and high public recreational area (Parque Central).

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: No direct vehicle access is available. The best vehicle access is via Parque Central or Shed M, Puerto Nuevo Channel. Parque Central has a public walkway that runs almost the complete length of the Martin Pena Channel. See Protection

Collection Points:

Area Access: boat/vehicle/Helicopter/Aircraft

Spill Risk:

Response Resources: Response equipment will be taken via water or road from a resource in the bay area (contractors, Coast Guard, oil companies in Catano).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 4500

Boom Type:

Booming Method:

Protection Strategy: Deploy 3,000 ft of boom from pier 16 to the mouth of the river. Deploy 1,500 ft of boom from the river mouth to the Ports Authority Pier (shed M). Boom will need to be tended at the mouth of the river to facilitate ferryboats A fishing facility along the shoreline between pier 16 and Martin Pena Channel. Vehicle and boat access available here. The commercial fishing vessels at the piers should be protected. Boat: Access is the best mode via San Juan Bay. The San Juan Hato Rey ferry runs the complete length of the Martin Pena Channel to the ferry terminal in Hato Rey. Ramp at Isla Grande is primary boat access. Staging: Use shed M, piers 15 and 16 of the PR Ports Authority.



Name: PREPA PUERTO NUEVO

Site ID:

A5

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 25' 58.270" N

Longitude (DMS): 66° 6' 24.657" W

County: Guaynabo

Latitude (DD): 18.43285268

Longitude (DD): -66.10684907

SCAT Division: San Juan County Division 1

ESI Map: PR-12

ESI Name: SAN JUAN, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D1

QUAD Name: San Juan

Managed Area (if applicable):

General Location: Gobernador Piñero

CONTACT INFORMATION

Contacts: TOTAL PETROLEUM & PREPA should be contacted. PRERA - (787)792-2920 or (FAX) 289-4999; TEXACO - (787) 792-0404; TOTAL PETROLEUM - (787) 273-2727; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Water intake to PREPA plant**Habitat:** Water intake to PREPA plant.**Wildlife:** Manatees**Threaten/Endangered Species:** Manatees**Socio-Economic Resources:** None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Recommend using boat access. Boat: CG Base Boat hoist (38k pound max lift, Vsl dimension limits L: 46 ft, B 16 ft.), Marinas (San Juan Bay & Club Nautico), FDA Housing boat ramp. Continued See Protection.

Collection Points:**Area Access:** aircraft/boat/helicopter/aircraft**Spill Risk:**

Response Resources: Consider high Energy out-flow from PRERA facility out-fall. Current is very strong. Out-fall discharge runs east to west pushing debris into a natural collection site on south-west corner of the "Triangle". See PREPA and ESSO response plans.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 600**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Contact TOTAL PETROLEUM, the Catano dock managers. They will protect PREPA intake with their response equipment on a cost reimbursement agreement basis. Approximately 600 ft. of harbor boom will be needed. ESSO is considering installing a permanent boom at PREPA's water intake. Staging: Aircraft: Isla Grande Airport, Luis Manoz Marin (San Juan) Airport. Helicopter: Isla Grande Airport, CG Base, and PRANG.



Name: EL MORRO AND SAN CRISTOBAL

Site ID:

B1

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 28' 13.403" N

Longitude (DMS): 66° 7' 18.435" W

County: San Juan

Latitude (DD): 18.47038965

Longitude (DD): -66.12178745

SCAT Division: San Juan County Division 1

ESI Map: PR-12

ESI Name: SAN JUAN, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D1

QUAD Name: San Juan

Managed Area (if applicable):

General Location: San Juan Antiguo

CONTACT INFORMATION

Contacts: El Morro, P.O. Box 712, San Juan, PR 00902/ Fort San Cristobal, 501 Norzagaray St., Old San Juan, PR 00902-2094, San Juan National Historic Site, National Park Service - Chief Ranger - (787) 729-6960, (787) 289-7972; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Tidal pools, high energy rocky shore and cliff face on northern shore. Shore in San Juan Bay is riprap.**Habitat:** Tidal pools**Wildlife:** None reported.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** Popular recreational area at Punta Escambron

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: The Tourism Authority road runs along San Juan Bay out to point El Morro. There is no access along north shore until La Perla. Helicopters: Isla Grande Airport, CG base and Prang. See Protection for more Staging info.

Collection Points:**Area Access:** aircraft/boat/helicopter/vehicle**Spill Risk:**

Response Resources: The NPS has 6 outfitted fire fighters, emergency medical technicians (EMTs), scuba divers, law enforcement officers, two small shelters with food stuffs and 20000 gallon drinking water supply.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: None due to high surf. Response equipment will be taken via water from a resource in the bay area (contractors, Coast Guard, oil companies in Cantano). Boat: CG Base San Juan boat hoist (38K pond max lift, vessel dimension limits L:46ft, B:16ft), Isla Grande ramp, Marinas (San Juan Bay and Club Nautico), FDA housing boat ramp. Aircraft: Isla Grande Airport, Luis Munoz Marin (San Juan) Airport



Name: SAN JUAN CRUISE SHIP PIERS

Site ID:

B2

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Three large cruise ship piers, and one smaller possible loading dock pier, there are also three other smaller piers to the west cruise ship piers.

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 35.629" N**Longitude (DMS):** 66° 6' 41.160" W**County:** San Juan**Latitude (DD):** 18.45989682**Longitude (DD):** -66.11143329**SCAT Division:** San Juan County Division 1**ESI Map:** PR-12**ESI Name:** SAN JUAN, P.R.**NOAA Chart:** 25668**CHART Name:** NORTH COAST OF PUERTO RICO**USGS Quad:** 18066-D1**QUAD Name:** San Juan**Managed Area (if applicable):****General Location:** San Juan Antiguo

CONTACT INFORMATION

Contacts: Puerto Rico Ports Authority - P.O. Box 2829 San Juan, PR 00936-2829 - Chief Ranger- (787) 729-8744 or (FAX) 724-8564;
NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Commercial pier fronts and large cruise ships.**Habitat:****Wildlife:** None reported.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** Popular tourist area

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Numerous access areas along commercial waterfront. Boat: CG Base San Juan Boat hoist (38k pound max lift, Vsl dimension limits L: 46 ft, B 16 ft.), Isla Grande ramp, Marinas (San Juan Bay & Club Nautico),FDA Housing boat ramp

Collection Points: Pier 10, end of Delta Pier, NW point of Isla Grande**Area Access:** aircraft/boat/helicopter/vehicle**Spill Risk:**

Response Resources: Helicopters: Isla Grande Airport, CG base and PRANG. Aircraft: Isla Grande Airport, Luis Manoz Marin (San Juan) Airport

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 7000**Boom Type:****Booming Method:** Deflection

Protection Strategy: Deploy 7,000 ft. of diversion boom positioned down wind from spill source. All commercial vessels not underway should be notified and encouraged to protect themselves using water streams to deflect floating oil away from vessels. The collection point at Pier 10 should be lined with boom if spill is from the East. The collection point at the Northwestern most point of Isla Grande will be used if the spill is from the West or East. An important collection point exists at the end of the Delta Pier at the Coast Guard base. Response equipment will be taken via water from a resource in the bay area (contractors, Coast Guard, oil companies in Catano)



Name: DOS HERMANOS BRIDGES AND CONDADO LAGOON

Site ID:

B3

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 26.721" N

Longitude (DMS): 66° 5' 23.363" W

County: San Juan

Latitude (DD): 18.45742258

Longitude (DD): -66.08982314

SCAT Division: San Juan County Division 1

ESI Map: PR-12

ESI Name: SAN JUAN, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D1

QUAD Name: San Juan

Managed Area (if applicable):

General Location: Santurce

CONTACT INFORMATION

Contacts: P.R. DNER, PO Box 5887, Puerta de Ierra, San Juan, PR 00906-6600 - P.R. DNER Emerg. Coord., Oil Spills - (787) 724-5700, (787) 999-2200, (787) 724-5400; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Marinas, bridge face, lagoon and riprap.

Wildlife: Seabirds, wading birds and sea turtles.

Threaten/Endangered Species: Brown Pelican and Manatees.

Socio-Economic Resources: San Geronimo Fort at lagoon entrance, and the Battery at the south end of Dos Hermanos Bridge. Recreational beach area in lagoon and fishing village- La Coal in the San Antonio Channel

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Along waterfront road. Boat: CG Base San Juan Boat hoist (38k pound max lift, Vsl dimension limits L: 46 ft, B 16 ft.), Isla Grande ramp, Marinas (San Juan Bay & Club Nautico), FDA Housing boat ramp.

Collection Points:

Area Access: boat/helicopter/vehicle/Aircraft

Spill Risk:

Response Resources: Helicopter: Isla Grande Airport, CG Base, and PRANG. Aircraft: Isla Grande Airport, Luis Manoz Marin (San Juan) Airport.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: If oil is entering from seaward deploy 1,800 ft. of exclusion boom along the north side of Dos Hermanos Bridge. If oil is entering from San Juan Bay deploy 1,000 ft. of exclusion boom West of the marina piers across the channel. Deploy second and third booms at the Puerta de Tierra Bridges from Isla Grande to Club Nautico. Response equipment will be taken via water or road from a resource in the bay area (contractors, Coast Guard, oil companies in Catano).



Name: PUNTA CATANO

Site ID:

B6

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 26' 35.125" N

Longitude (DMS): 66° 6' 32.387" W

County: Cataño

Latitude (DD): 18.44309020

Longitude (DD): -66.10899641

SCAT Division: Cataño County Division 1

ESI Map: PR-12

ESI Name: SAN JUAN, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D1

QUAD Name: San Juan

Managed Area (if applicable):

General Location: Cataño

CONTACT INFORMATION

Contacts: P.R. DNER - PO Box 5887, Puerta de Tierra, San Juan, PR 00906-6600 - P.R. DNER Emerg. Coord., Oil Spills- (787) 724-5700 or (787) 722-4991; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Coarse grained sandy beaches, rip-rap, and private docks.

Habitat: Coarse grained sandy beaches, riprap and private docks.

Wildlife: Seabirds and wading birds.

Threaten/Endangered Species: Brown Pelican.

Socio-Economic Resources: Fishing fleet, private residences and boats along channel area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Recommend using boat access. Boat: CG Base Boat hoist (38k pound max lift, Vsl dimension limits L: 46 ft, B 16 ft.), Marinas (San Juan Bay & Club Nautico), FDA Housing boat ramp. Helicopter: Isla Grande Airport, CG Base, PRANG.

Collection Points:

Area Access: aircraft/boat/helicopter/aircraft

Spill Risk:

Response Resources: Area is a risk to workers and equipment due to high rate of crime. Aircraft: Isla Grande Airport, Luis Manoz Marin (San Juan) Airport.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1900

Boom Type:

Booming Method: Deflection/Protection/Exclusion

Protection Strategy: Full time security of equipment is needed. Deploy 300 ft. of diversion boom NW to SE at Punta Catano. Deploy 1,000 ft. of exclusion boom at the inlet. Deploy 600 ft. of collection boom NE to SW at the shore North of the Rice piers. Response equipment will be taken via water from a resource in the bay area (contractors, Coast Guard, oil companies in Catano)



Name: CAROLINA (ISLA VERDE) BEACH

Site ID:

B80

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 5.077" N

Longitude (DMS): 66° 0' 4.273" W

County: Carolina

Latitude (DD): 18.45141033

Longitude (DD): -66.00118692

SCAT Division: Carolina County Division 1

ESI Map: PR-12

ESI Name: SAN JUAN, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18066-D1

QUAD Name: San Juan

Managed Area (if applicable):

General Location: Cangrejo Arriba

CONTACT INFORMATION

Contacts: P.R. Dept. of Recreation - Main Office - (787) 721-2800; P.R. DNER - Ranger Corps Command Center - Oil Spills - (787) 724-5700- 7/24 hrs or (787) 722-5028 or (CEL) 502-0450; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Fine grained sandy beach.

Wildlife: Turtles, National Wildlife Preserve (contact PR-DNER).

Threaten/Endangered Species: None reported.

Socio-Economic Resources: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number. Very popular recreation, tourist area, and cemetery

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Only access onto beach is at the road to the Hungry Sailor Restaurant across from Pizza Hut. Sand is very soft and should not be driven on with road vehicles. Boat: Light boats could be taken over the beach to the water.

Collection Points:

Area Access: boat/helicopter/aircraft/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Consider deploying 10,000 ft of cascading boom to protect the beach.

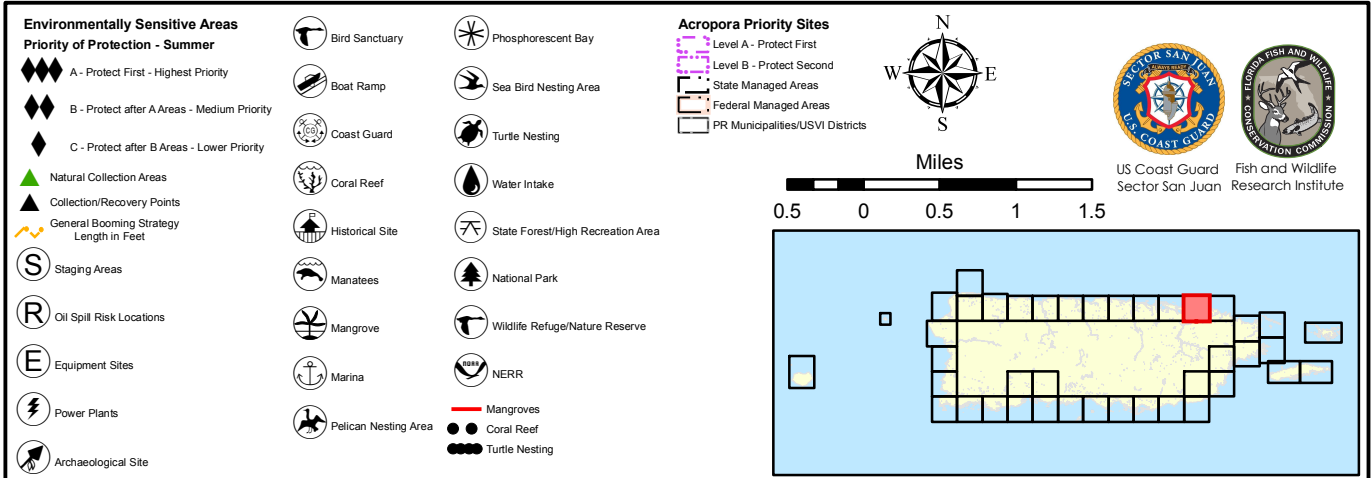


Geographic Response Plan Map: PR-13



Map Continued on PR-12

Map Continued on PR-14



Name: TORRECILLA BAJA

Site ID:

A79

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 27' 29.992" N

Longitude (DMS): 65° 59' 53.095"

County: Carolina

Latitude (DD): 18.45833107

Longitude (DD): -65.99808195

SCAT Division: Carolina County Division 1

ESI Map: PR-13

ESI Name: CAROLINA, P.R.

NOAA Chart: 25668

CHART Name: NORTH COAST OF PUERTO RICO

USGS Quad: 18065-D8

QUAD Name: Carolina

Managed Area (if applicable):

General Location: Cangrejo Arriba

CONTACT INFORMATION

Contacts: P.R. DNER - Ranger Corps- (787) 724-5700; Marine Unit -(787) 791-5222/5; P.R. DNER - San Juan - Oil Spills - (787) 723-1871, (787) 722-5028 or (CEL) 502-0450, P.R. Marine Police - (787) 273-5353, Cangrejos Yacht Club - (787) 791-1015/18; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine and coarse grained sandy beaches, sheltered mangroves, exposed rocky shores and platforms.**Habitat:** Beach, mangroves, rocks**Wildlife:** Sea turtles, wading birds, sea birds, diving birds, waterfowl and marine mammals.**Threaten/Endangered Species:** Brown Pelican, West Indian Manatee and Leatherback Turtles.**Socio-Economic Resources:** Sand dunes, recreational beaches and fishing villages.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Coastal road, Rt. 187. Boat: Cangrejos Yacht Club has a 20 ft. wide boat ramp and a 75,000 lb boat lift. DNER Office has a 20 ft. wide boat ramp. Staging: Secure staging areas can be established at the DNER office and the Cangrejos YC

Collection Points:**Area Access:** boat/vehicle**Spill Risk:**

Response Resources: San Juan International Airport has some boom. San Jose and Torreallas lagoons are very important recreational fishing areas. Largest mangrove forest in the Caribbean is in the Pinones area.

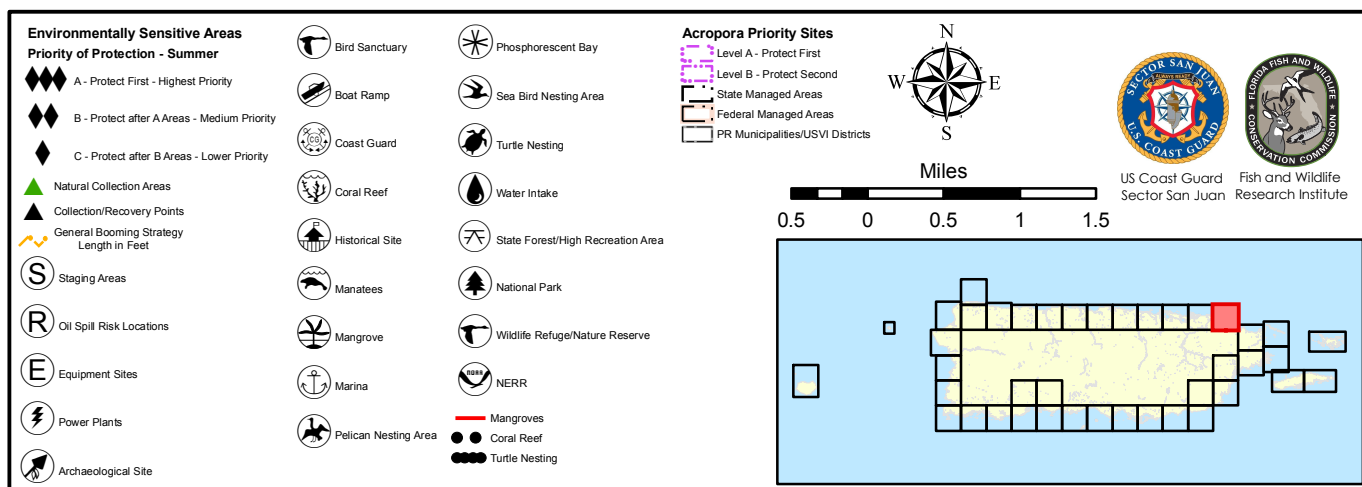
PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1000**Boom Type:****Booming Method:** Deflection

Protection Strategy: Strong currents through the mouth of the lagoon make booming difficult. Deploy 600 ft. diversion boom to collect oil at the beach on the eastern and seaward side of the bridge. A second 400 ft. diversion boom may be deployed inside the lagoon using the bulkhead on the Eastern side, or the rip-rap on the Western side as collection points. San Juan International Airport has some boom. San Jose and Torreillas lagoons are very important recreational fishing areas. Largest mangrove forest in the Caribbean is in the Pinones area.



Geographic Response Plan Map: PR-14



Name: ENSENADA COMEZON (COCO Beach)

Site ID:

A77

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 25' 27.995" N

Longitude (DMS): 65° 46' 40.078"

County: Río Grande

Latitude (DD): 18.42444308

Longitude (DD): -65.77779938

SCAT Division: Río Grande County Division 1

ESI Map: PR-14

ESI Name: RIO GRANDE, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

USGS Quad: 18065-D7

QUAD Name: Rio Grande

Managed Area (if applicable): Reserva Natural Rio Espiritu Santo

General Location: Zarzal

CONTACT INFORMATION

Contacts: P.R. DNER Ranger Corps Command Control - (787) 724-5700 - 7/24 hrs; P.R. DNER - San Juan - Oil Spills - (787) 999-2200 x 5610/13, (787) 999-2200 x 2507/15 or (CEL) 502-0450; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine grained sandy beaches and sheltered mangroves.

Habitat: Fine grained sandy beaches and sheltered mangroves.

Wildlife: Sea turtles, wading birds, coral reefs, White Crowned Pigeon, Little Blue and Grey Blue Heron and seagrass beds.

Threaten/Endangered Species: Hawksbill Turtle and West Indian Manatee.

Socio-Economic Resources:

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is via COCO Beach private housing development. You will need to get a key from the main gate guard to access a second gate that leads directly to the mouth of the Espiritu Santo River.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Access from Rio Martin and Villa Pesquera on Espiritu Santo River. Boat: The closest ramp is located up river at Villa Pesquera (787)887-9864. Two sticks mark entrance to the river through the barrier reef.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 800

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 400 ft. exclusion boom across the mouth of Rio Espiritu Santo and another 400 ft. across the entrance to the sheltered mangroves on the eastern side of Pta. Miquillo. Deploy wildlife control measures to protect birds.



Name: RIO HERRERA AND CIENAGA BAJA

Site ID:

A78

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 25' 0.001" N

Longitude (DMS): 65° 49' 0.001" W

County: Río Grande

Latitude (DD): 18.41666698

Longitude (DD): -65.81666698

SCAT Division: Río Grande County Division 1

ESI Map: PR-14

ESI Name: RIO GRANDE, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

USGS Quad: 18065-D7

QUAD Name: Rio Grande

Managed Area (if applicable): Reserva Natural Rio Espiritu Santo

General Location: Herreras

CONTACT INFORMATION

Contacts: P.R. DNER Ranger Corps Command Center - (787) 724-5700 - 7/24 hrs; P.R. DNER - San Juan - Oil Spills - (787) 999-2200 x 5610/13, (787) 999-2200 x 2507/15 or (CEL) 502-0450; P.R. State Historic Preservation Office (SHPO)- Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Fine grained sandy beach and mangroves.**Wildlife:** Sea turtles and water fowl.**Threaten/Endangered Species:** Hawksbill, Green and Leatherback turtles.**Socio-Economic Resources:**

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access is available off of main road. Boat: No boat ramp is in the immediate vicinity, however a light boat could be launched over the beach.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 900**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: The river mouth is often closed to the sea. If the river will be influenced by tidal waters construct an underflow dam, or deploy 900 ft. exclusion boom across the mouth of the river



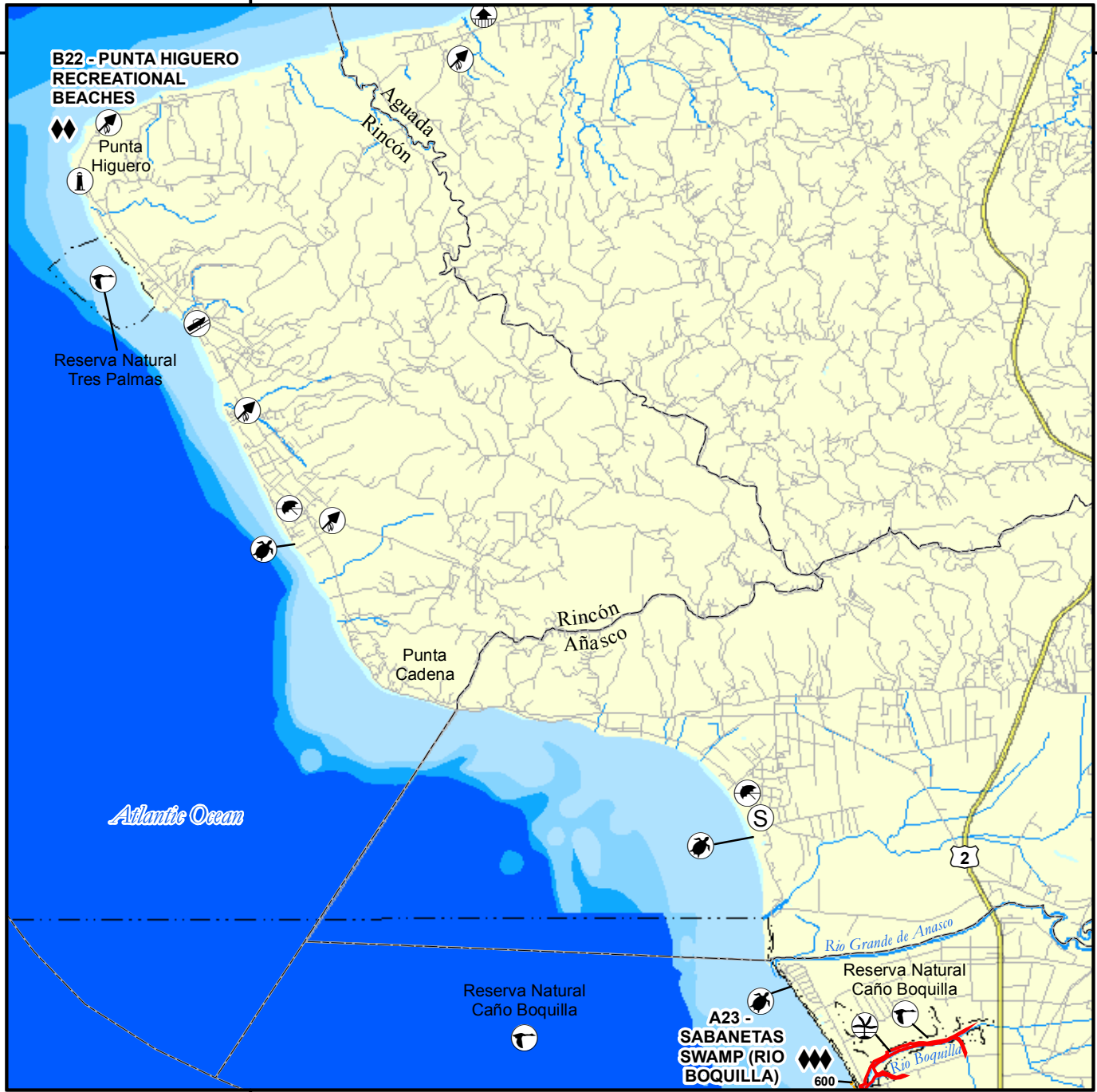
Geographic Response Plan Map: PR-15

67°15'0"W

Map Continued on PR-2

18°22'30"N

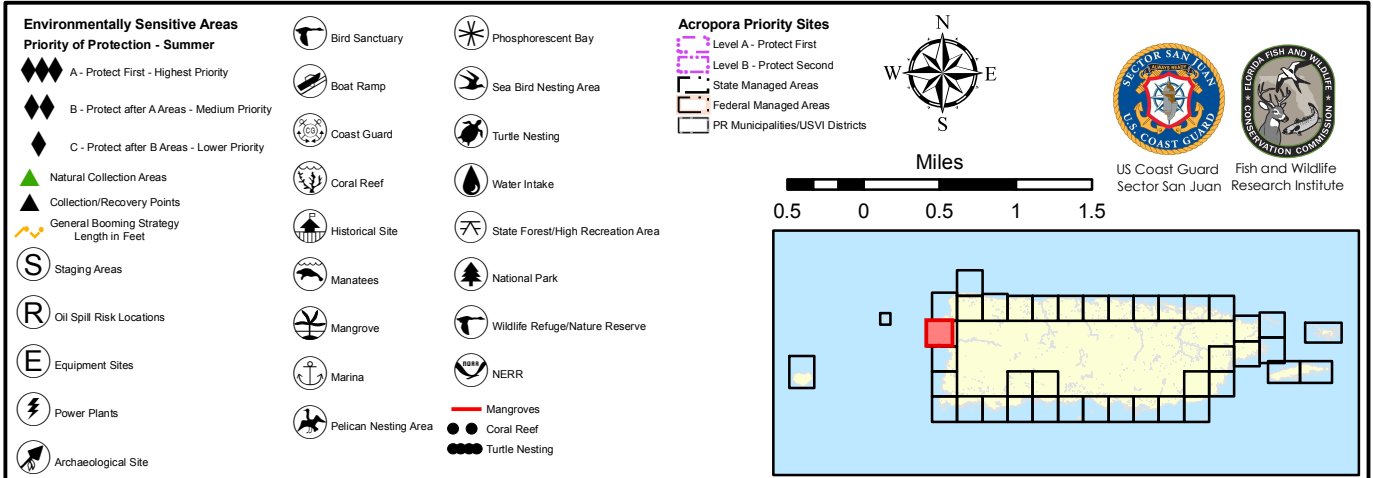
18°22'30"N



67°15'0"W

Map Continued on PR-29

Map Continued on PR-4



Name: CANO BOQUILLA NATURAL RESERVE

Site ID:

A23

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area, Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 15' 11.999" N

Longitude (DMS): 67° 10' 41.999"

County: Mayagüez

Latitude (DD): 18.25333300

Longitude (DD): -67.17833301

SCAT Division: Mayagüez County Division 1

ESI Map: PR-15

ESI Name: RINCON, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-C2

QUAD Name: Rincon

Managed Area (if applicable): Reserva Natural Cano Boquilla

General Location: Sabanetas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Mayaguez - (787) 724-5700; P.R. DNER Mayaguez (Alt) - (787) 724-5700; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Coarse and fine grained sandy beaches and mangroves.

Wildlife: Sea turtles, whales and wading birds.

Threaten/Endangered Species: Hawksbill sea turtle.

Socio-Economic Resources: Fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Along waterfront road from Rt. 2 to, Rt. 341. Aircraft: Mayaguez (EUGENIO MARIA DE HOSTOS) airport.

Collection Points:

Area Access: aircraft/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 600

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 600 ft. of exclusion boom, or construct an underflow dam, at Rio Boquilla openings.



Name: PUNTA HIGUERO RECREATIONAL BEACHES

Site ID:

B22

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 22' 0.001" N

Longitude (DMS): 67° 16' 30.000"

County: Rincón

Latitude (DD): 18.36666701

Longitude (DD): -67.27499998

SCAT Division: Rincón County Division 1

ESI Map: PR-15

ESI Name: RINCON, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-C2

QUAD Name: Rincon

Managed Area (if applicable):

General Location: Puntas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Aguadilla - Oil Spills - (787) 882-5827, 997-0355; P.R. State Historic - Director Preservation Office (SHPO) - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological site in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Exposed vertical rocky shores, exposed vertical platforms and coarse grain sandy beaches.

Wildlife: A migration path for humpback whales is approximately 1/4 mile offshore (December - March).

Threaten/Endangered Species: Brown pelican.

Socio-Economic Resources: High recreation and tourist area, surfing area and small fishing community. High priority protection area to due the presence of submerged Elkhorn Coral habitat off the coast of Punta Higuero. It is part of the Tres Palmas Marina Reserve.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Use road along waterfront. Boat: Boat ramp at Club Nautico in Rincon.

Collection Points:

Area Access: boat/vehicle/helicopter

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Diversion booming should be considered under ideal weather conditions. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-27



Map Continued on PR-41

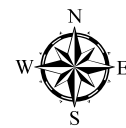
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipality/USVI Districts



Miles

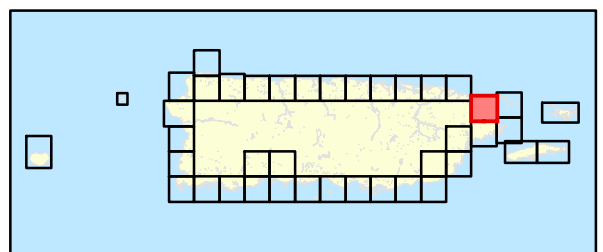
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US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: RIO FAJARDO

Site ID:

A68

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 48.000" N

Longitude (DMS): 65° 37' 36.001"

County: Fajardo

Latitude (DD): 18.32999998

Longitude (DD): -65.62666700

SCAT Division: Fajardo County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable): Reserva Natural Bosque Estatal de Ceiba

General Location: Fajardo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540; P.R. DNER - Humacao - (787) 852-3666, (787) 852-3663; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archeological sites in area. Refer to contact list.**Habitat:** Exposed mangroves are located behind sandy beach berm. Sheltered mangroves are up river.**Wildlife:** Wading birds.**Threaten/Endangered Species:** West Indian Manatee**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Follow waterfront road through residential area in Punta Fajardo. Dirt road leads right to the mouth of the river and the collection point. Boat: Launch small boat at Playa de Fajardo. A small boat could also be launched at the mouth of river.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 500**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Deploy 500 ft. exclusion boom to trap the oil at the beach on the Punta Fajardo side of Rio Fajardo. The water is very shallow. Deploy wildlife control measures to protect birds.



Name: LAS CROABAS

Site ID:

A73

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 22' 0.001" N

Longitude (DMS): 65° 37' 30.000"

County: Fajardo

Latitude (DD): 18.36666701

Longitude (DD): -65.62500000

SCAT Division: Fajardo County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable):

General Location: Cabezas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540, (787) 852-3663; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Sheltered mangroves, mixed sand and gravel beaches.

Wildlife: Shorebirds, sea and wading birds.

Threaten/Endangered Species: None reported. West Indian manatee, Brown Pelican

Socio-Economic Resources: Fishing village, recreational area and bioluminescent bay.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access is available at Las Croabas. Boat: A 20 ft. wide boat ramp is located at Las Croabas.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1200

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 1,200 ft. of exclusion boom across the channel entrance. Deploy wildlife control measures to protect birds.



Name: BAHIA LAS CABEZAS AND LAGUNA AGUAS PRIET (Seven Seas Beach)

Site ID:

A75

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 22' 30.000" N

Longitude (DMS): 65° 38' 0.000" W

County: Fajardo

Latitude (DD): 18.37499998

Longitude (DD): -65.63333301

SCAT Division: Fajardo County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable): Reserva Natural Cabezas de San Juan

General Location: Cabezas

CONTACT INFORMATION

Contacts: P.R. DNER - (787) 724-5700; P.R. DNER - San Juan - Oil Spills - (787) 723-1871 or (787) 722-5028, 999-2200 or (CEL) 375-7660; P.R. DNER - San Juan - (787) 722-4991; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30 ; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological site in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Coarse and fine grained sandy beaches, sheltered mangroves, sheltered tidal flats and exposed vertical rocky shore.

Wildlife: Wading birds, sea turtles, coral reefs, Little Blue Heron, Cattle Egret, White Crown Pigeon and bioluminescent bay.

Threaten/Endangered Species: Hawksbill Turtle and Brown Pelican, and Manatee.

Socio-Economic Resources: Camping area, public beach and fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Road access is available only along the eastern side of the beach. Boat: Due to numerous reefs in the area small boat access to the shore from the sea should only be done by operators familiar with the area.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Cascade booming should be considered under favorable weather conditions. Conduct containment booming and skimming prior to the oil impacting the shores.



Name: LUQUILLO BEACH

Site ID:

A76

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 23' 30.001" N

Longitude (DMS): 65° 43' 30.000"

County: Luquillo

Latitude (DD): 18.39166701

Longitude (DD): -65.72499997

SCAT Division: Luquillo County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable):

General Location: Mata de Plátano

CONTACT INFORMATION

Contacts: P.R. DNER - (787) 724-5700; Luquillo Beach - Office - (787) 889-5871; P.R. Dept. of Recreation - Main Office - (787) 721-2800; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Fine grained sandy beach and sheltered mangroves.

Wildlife: None reported.

Threaten/Endangered Species: Sea turtle nesting site.

Socio-Economic Resources: Public beach and high recreation area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Enter through main beach entrance. Boat: The beach does not have a boat ramp, but light boats have been launched over the beach in the past.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Cascade booming should be considered under favorable weather conditions. Conduct containment booming and skimming prior to the oil impacting the shores.



Name: PUERTO DEL REY MARINA

Site ID:

B67

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 17' 0.000" N

Longitude (DMS): 65° 38' 0.000" W

County: Fajardo

Latitude (DD): 18.28333302

Longitude (DD): -65.63333301

SCAT Division: Ceiba County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable):

General Location: Machos

CONTACT INFORMATION

Contacts: Puerto Del Rey Marina - Harbor Master - (787) 860-100, Security - (787) 860-1000 x 4220; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: riprap and sandy beach.

Wildlife: None reported.

Threaten/Endangered Species: West Indian Manatee.

Socio-Economic Resources: Large marina and recreational area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access through marina. Boat: Puerto Del Rey has a 31 ft. wide boat ramp and a 70 ton travel lift.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: AVAILABLE ON SITE RESOURCE: Marina has sorbent material for small spills (sorbent pads), and 200 feet of containment boom.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1550

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 1,150 ft. of exclusion boom across the large entrance and 400 ft. across the small entrance of the marina. A natural collection point exists just to the north of the marina.



Name: PLAYA SARDINERA MARINAS (VELA AND PUNTA CHICA)

Site ID:

B71

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 48.001" N

Longitude (DMS): 65° 38' 12.001"

County: Fajardo

Latitude (DD): 18.34666701

Longitude (DD): -65.63666698

SCAT Division: Fajardo County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable):

General Location: Sardinera

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540; P.R. DNER - Humacao - (787) 852-3666, (787) 852-3663; Villa Marina - (787) 863-5131; Puerto Chico Marina - (787) 863-0834; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** riprap, fine grained sandy beaches and commercial water front.**Wildlife:** None reported.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** Large marinas (Villa and Puerto Chico), public and commercial area, and fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access is available through the marinas. Boat: Both marinas have boat ramps, and boat fork lifts. Villa marina has a sling boat lift.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2200**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Deploy 200 ft. of exclusion boom across the entrance of Villa Marina. Deploy 2,000 ft. of exclusion boom around Puerto Chico Marina. Use the small beach to the west of the marina as a collection point.



Name: PUNTA GORDA

Site ID:

B72

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 29.999" N

Longitude (DMS): 65° 37' 30.000"

County: Fajardo

Latitude (DD): 18.35833299

Longitude (DD): -65.62500000

SCAT Division: Fajardo County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable):

General Location: Cabezas

CONTACT INFORMATION

Contacts: Conquistador Hotel - Vice President - (787) 863-1000, 1-800-468-8365; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Bulk head, riprap, gravel beach, and mixed sand and gravel beach.

Wildlife: None reported.

Threaten/Endangered Species: West Indian Manatee.

Socio-Economic Resources: Marina, El Conquistador Hotel.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access is available through the marina. Boat: The marina does not have a boat ramp. The closest boat access via land is at the marinas at Playa Sardinera.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 50

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 50 ft. of exclusion boom across the entrance of the marina.



Name: FAJARDO BAY

Site ID:

C70

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 12.001" N

Longitude (DMS): 65° 37' 48.000"

County: Fajardo

Latitude (DD): 18.33666699

Longitude (DD): -65.63000001

SCAT Division: Fajardo County Division 1

ESI Map: PR-27

ESI Name: FAJARDO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C6

QUAD Name: Fajardo

Managed Area (if applicable):

General Location: Fajardo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540; P.R. DNER Humacao - (787) 852-3666, (787) 852-3663; P.R. Ports Authority - (787) 862-4560, (787) 729-8787; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Commercial waterfront, docks and riprap.**Wildlife:** None reported.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available along waterfront. Boat: A boat ramp is located in the harbor.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

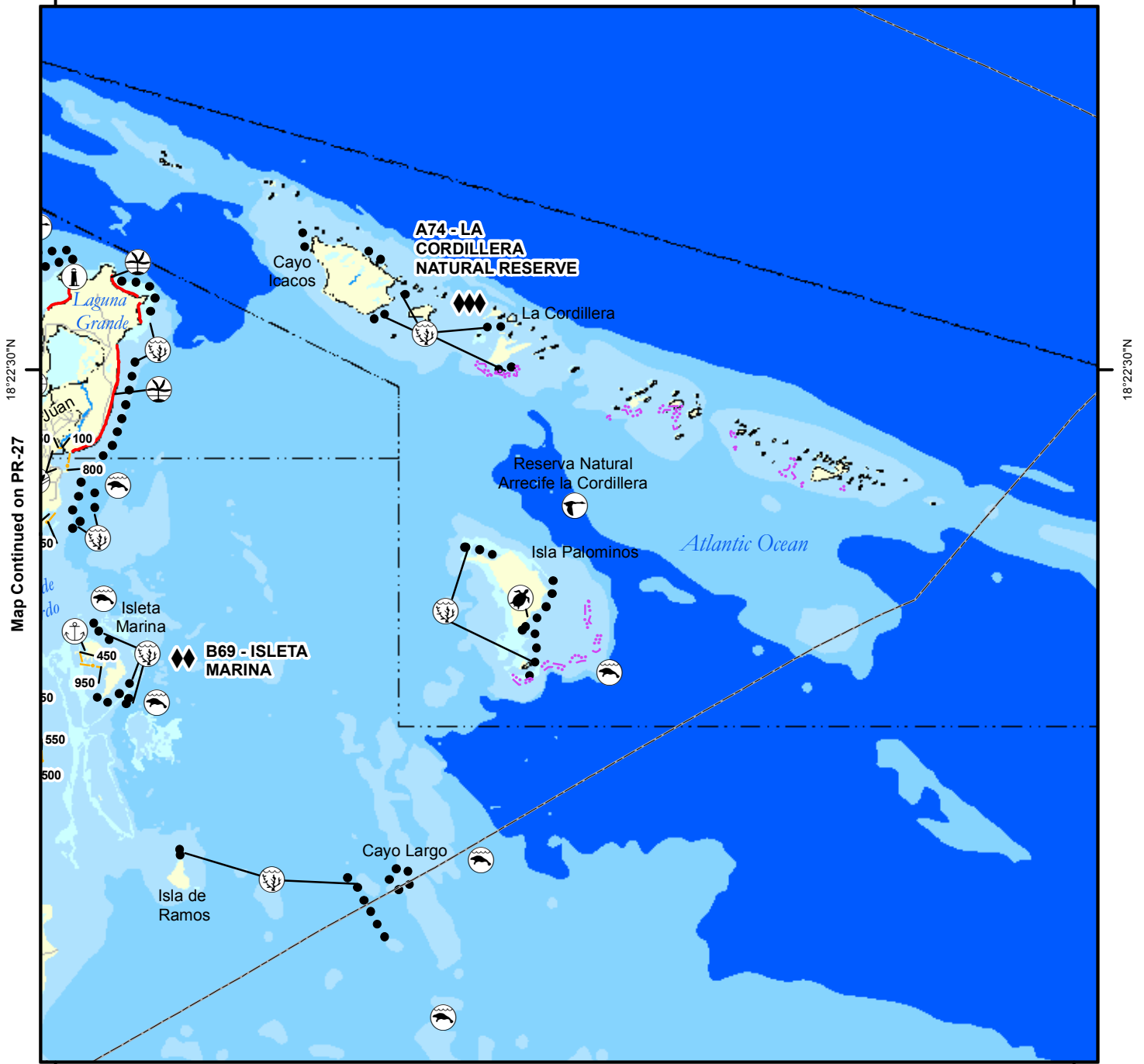
PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1500**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 1,500 ft. of exclusion boom around the commercial piers.

Geographic Response Plan Map: PR-28

65°37'30"W

65°30'0"W



Map Continued on PR-27

18°22'30"N

Map Continued on PR-42

65°37'30"W

65°30'0"W

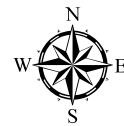
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy
Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

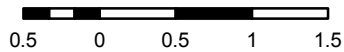
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦆 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



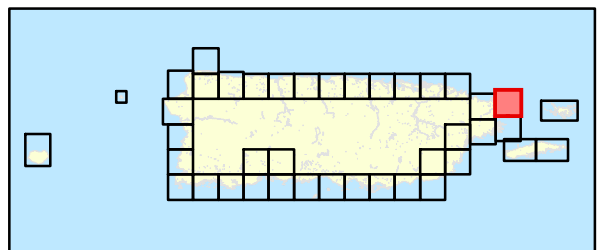
Miles



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: LA CORDILLERA NATURAL RESERVE

Site ID:

A74

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 23' 0.000" N

Longitude (DMS): 65° 34' 30.000"

County: Fajardo

Latitude (DD): 18.38333300

Longitude (DD): -65.57499998

SCAT Division: Fajardo County Division 1

ESI Map: PR-28

ESI Name: CAYO ICACOS, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C5

QUAD Name: Cayo Icacos

Managed Area (if applicable): Reserva Natural Arrecife la Cordillera

General Location: Cabezas

CONTACT INFORMATION

Contacts: P.R. DNER - (787) 724-5700; P.R. DNER - San Juan - Oil Spills - (787) 723-1871 or (787) 722-5028 or 999-2200 (CEL) 383-6631; P.R. DNER, San Juan - (787) 722-4991; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Isolated islands, most of them uninhabited, with sand beaches, mixed sand gravel and fill beaches, exposed rocky platforms, gravel beaches and riprap.

Wildlife: Wildlife Preserve, diving birds, wading birds sea- birds, gulls, sea turtles, manatees, coral reefs and sea grass beds.

Threaten/Endangered Species: Hawksbill and Green sea turtles, West Indian Manatee, Brown Pelican, Roseate Tern, Brown Noddy, Bridled Tern, Sooty Tern and the Brown Booby.

Socio-Economic Resources: Private and public beaches and a private Marina.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Closest boat ramps are at Playa Sardinera.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Conduct skimming prior to oil impacting the shores.



Name: ISLETA MARINA

Site ID:

B69

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 30.001" N

Longitude (DMS): 65° 37' 18.001"

County: Fajardo

Latitude (DD): 18.34166700

Longitude (DD): -65.62166699

SCAT Division: Fajardo County Division 1

ESI Map: PR-28

ESI Name: CAYO ICACOS, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-C5

QUAD Name: Cayo Icacos

Managed Area (if applicable):

General Location: Cabezas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540 or (787) 852-3663; Isleta Marina - (787) 745-8697 or 8696; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Beach, mangroves and marina.

Wildlife: None reported.

Threaten/Endangered Species: Manatee.

Socio-Economic Resources: Popular recreational boating area.

RESPONSE CONSIDERATIONS

Staging Area: Boat: A boat from Fajardo is the closest access.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources: CAUTION: This area is a popular manatee feeding area. Powerboats are to operate at slow speeds so as not to endanger the animals.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1700

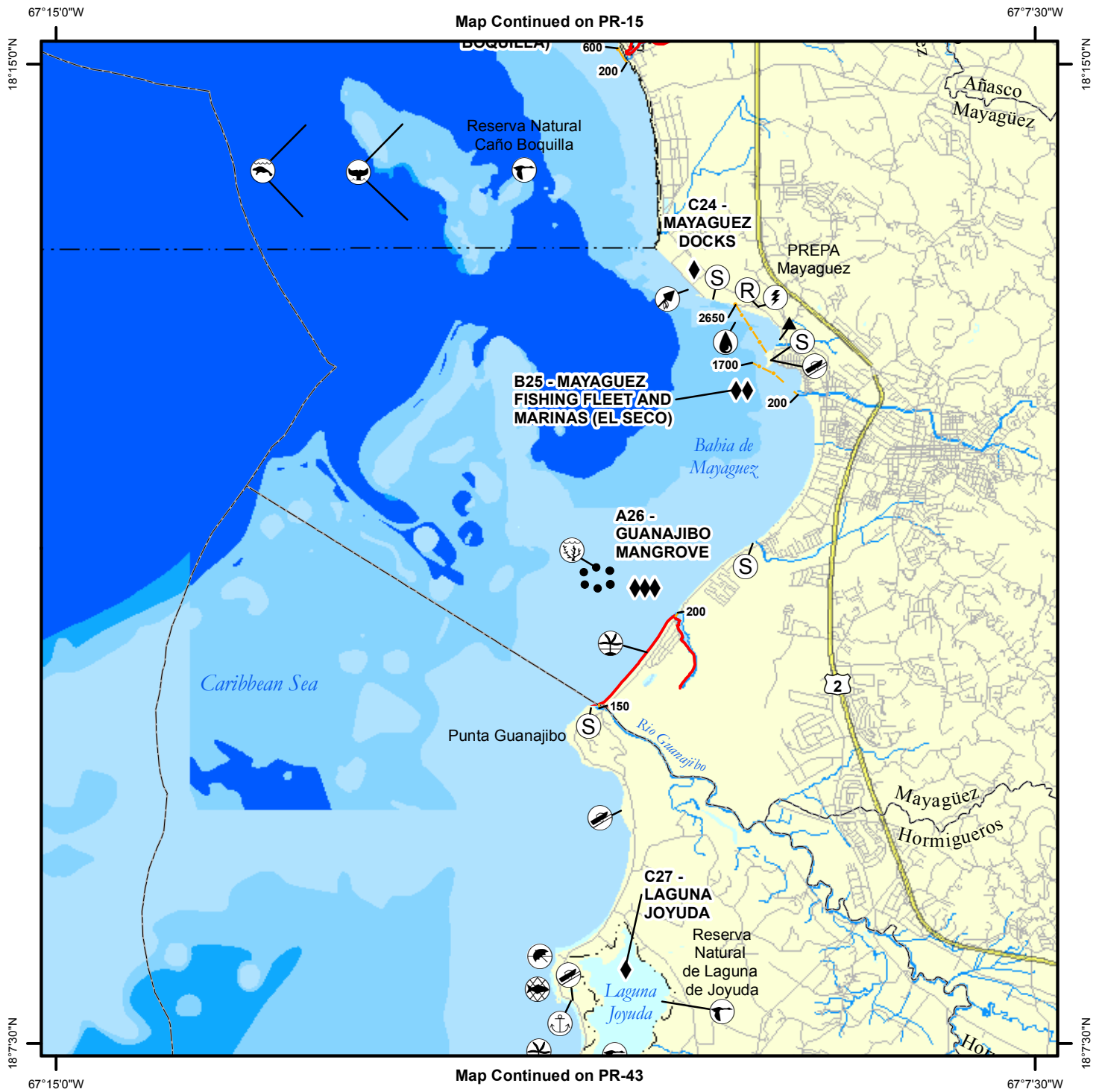
Boom Type:

Booming Method: Containment/Deflection

Protection Strategy: This marina is naturally protected, however if threatened by an unusual wind or current deploy 1,200 ft. diversion boom and 500 ft. collection boom to deflect oil from the marina. Collect the oil on the western side of Isleta Marina.



Geographic Response Plan Map: PR-29



Environmentally Sensitive Areas Priority of Protection - Summer

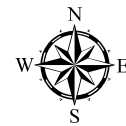
- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦆 Pelican Nesting Area

- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalties/USVI Districts



Miles

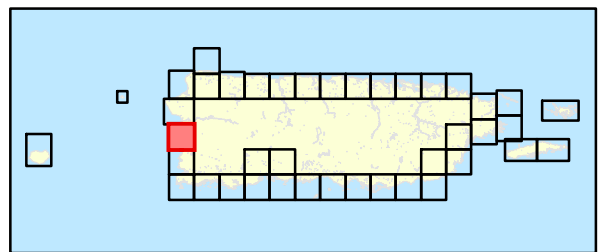
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US Coast Guard Sector San Juan



Fish and Wildlife Research Institute



Name: GUANAJIBO MANGROVE

Site ID:

A26

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 11' 0.000" N

Longitude (DMS): 67° 10' 30.000"

County: Mayagüez

Latitude (DD): 18.18333299

Longitude (DD): -67.17500000

SCAT Division: Mayagüez County Division 1

ESI Map: PR-29

ESI Name: MAYAGUEZ, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-B2

QUAD Name: Mayaguez

Managed Area (if applicable):

General Location: Guanajibo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Mayaguez - (787) 833-1345; P.R. DNER - Mayaguez (Alt) - (787) 833-4344/3700; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Seawalls, gravel beach, riprap, coarse grain sandy beaches, and mangroves.**Wildlife:** Diving birds, West Indian Manatee, Least Grebe, waterfowl and whale migration (December-March).**Threaten/Endangered Species:** Brown Pelican and West Indian Manatee.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Along Rt. 102.**Collection Points:****Area Access:** vehicle**Spill Risk:****Response Resources:** AVAILABLE ON SITE RESOURCE: DNER Office.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 200**Boom Type:****Booming Method:** Deflection**Protection Strategy:** Deploy 200 ft. of diversion boom, or construct berms, across the mouths of Cano Corazones and Rio Guanajibo systems. Consider deploying wildlife control measures to protect birds.

Name: MAYAGUEZ FISHING FLEET AND MARINAS (EL SECO)

Site ID:

B25

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 12' 42.001" N

Longitude (DMS): 67° 9' 18.000" W

County: Mayagüez

Latitude (DD): 18.21166701

Longitude (DD): -67.15500001

SCAT Division: Mayagüez County Division 1

ESI Map: PR-29

ESI Name: MAYAGUEZ, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-B2

QUAD Name: Mayaguez

Managed Area (if applicable):

General Location: Mayagüez

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Mayaguez - (787) 833-1345; P.R. DNER - Mayaguez (Alt) - (787) 833-4344; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Coarse grained sandy beaches.

Wildlife: None reported.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: Fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle/Boat: Commercial area. Aircraft: Mayaguez (EUGENIO MARIA DE HOSTOS) airport.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources: AVAILABLE ON SITE RESOURCE: See response plans for PREPA Mayaguez (SJ017), and Bumble Bee Tuna (SJ027).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 400

Boom Type:

Booming Method: Deflection,
Protection/Exclusion

Protection Strategy: Deploy 200 ft. of exclusion boom across the entrance of the river. Place 200 ft. of collection and diversion boom off of Punta Algarobito. Favorable skimming conditions normally exist throughout the area.



Name: MAYAGUEZ DOCKS

Site ID:

C24

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 13' 12.000" N

Longitude (DMS): 67° 9' 54.000" W

County: Mayagüez

Latitude (DD): 18.21999998

Longitude (DD): -67.16499998

SCAT Division: Mayagüez County Division 1

ESI Map: PR-29

ESI Name: MAYAGUEZ, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-B2

QUAD Name: Mayaguez

Managed Area (if applicable):

General Location: Algarrobos

CONTACT INFORMATION

Contacts: Ports Authority (Mayaguez), PREPA Mayaguez - (787) 832-3255; Bumble Bee Tuna - (787) 834-3450; Starkist Tuna - (787) 834-2424; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30, ; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Commercial pier fronts and large ships.**Wildlife:** None reported.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:**

RESPONSE CONSIDERATIONS

Staging Area: Vehicle/Boat: Commercial area. Aircraft: Mayaguez (EUGENIO MARIA DE HOSTOS) airport.**Collection Points:****Area Access:** aircraft/boat/helicopter**Spill Risk:****Response Resources:** AVAILABLE ON SITE RESOURCE

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 3050**Boom Type:****Booming Method:** Deflection/Protection/Exclusion

Protection Strategy: Deploy 50 ft. of exclusion boom at the Bumble Bee water intake. Deploy 3000 ft. of diversion boom around all vessel's in port. Deploy collection boom at Punta Algarrobito. Favorable



Name: LAGUNA JOYUDA

Site ID:

C27

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 8' 0.000" N

Longitude (DMS): 67° 11' 0.000" W

County: Cabo Rojo

Latitude (DD): 18.13333298

Longitude (DD): -67.18333297

SCAT Division: Cabo Rojo County Division 1

ESI Map: PR-29

ESI Name: MAYAGUEZ, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-B2

QUAD Name: Mayaguez

Managed Area (if applicable): Reserva Natural de Laguna de Joyuda

General Location: Guanajibo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Mayaguez - (787) 833-1345; P.R. DNER - Mayaguez (Alt) - (787) 832-2972, P.R. State Historic Preservation Office (SHPO) - Director - (787) 724-0700; P.R. Institute of Culture- Director (787) 722-1811; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number. Subaquatic resources at risk, contact P.R. Institute of Culture at the above number.

Habitat: Sheltered Mangroves, coarse grained sand beaches, gravel beaches, riprap, docks, waterfront restaurants and bioluminescent bay. Priority A or B?

Wildlife: Diving birds and wading birds.

Threaten/Endangered Species: Brown Pelican.

Socio-Economic Resources: Public beach, fishing village, PR DNER research area, mangroves.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Rt. 102. Boat: Boat ramp at DNER fishery laboratory facility.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

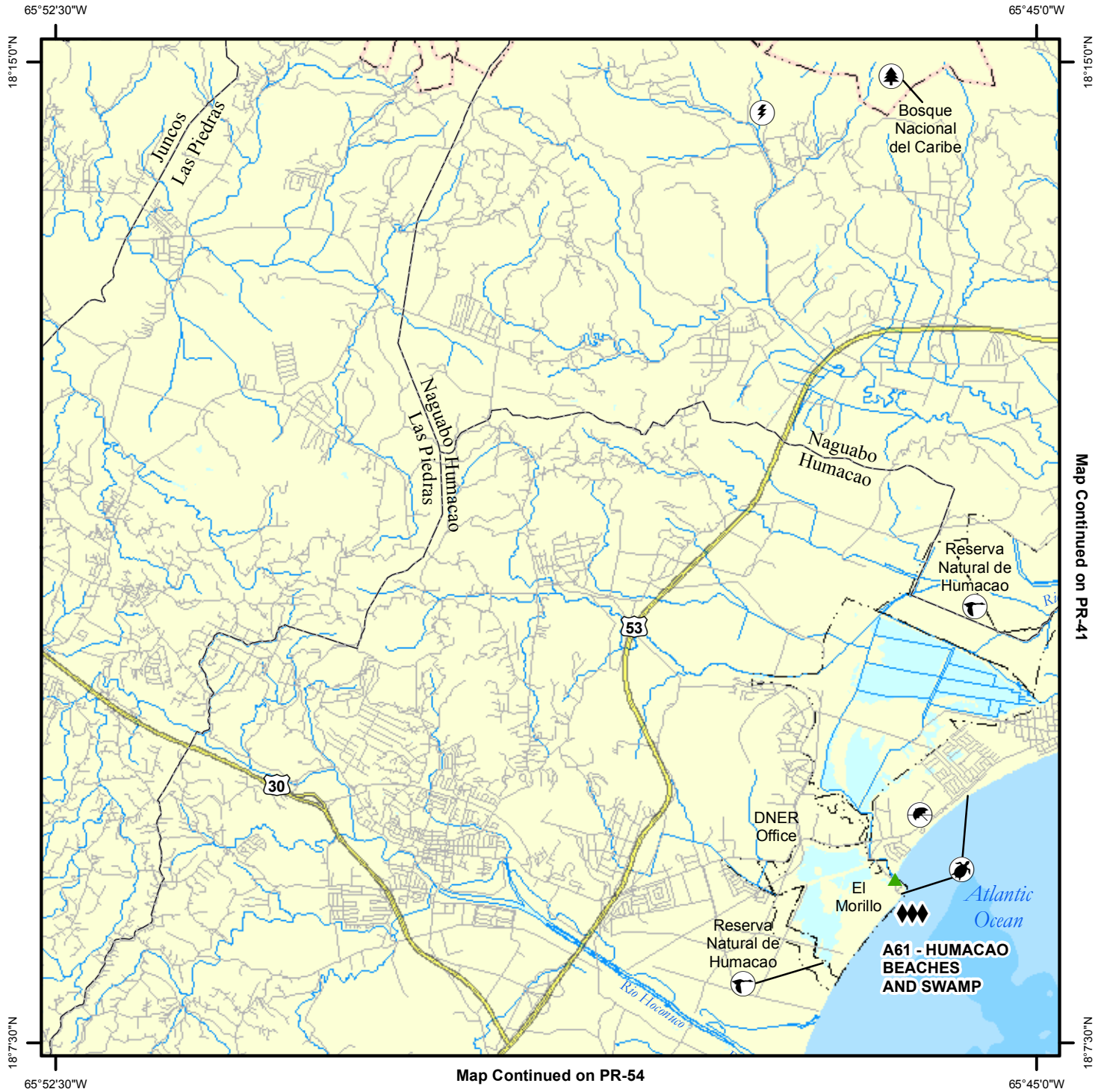
Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy numerous 100 ft. sections of boom or berm canals into lagoon. Favorable conditions normally exist for use of skimming equipment. Consider deploying wildlife control measures to protect birds.



Geographic Response Plan Map: PR-40



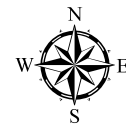
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌿 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts



Miles

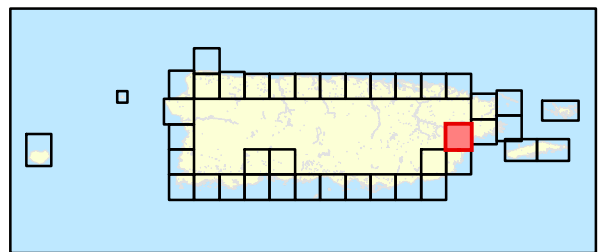
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US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: HUMACAO BEACHES AND RESERVE

Site ID:

A61

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 8' 30.001" N

Longitude (DMS): 65° 46' 0.001" W

County: Humacao

Latitude (DD): 18.14166700

Longitude (DD): -65.76666701

SCAT Division: Humacao County Division 1

ESI Map: PR-40

ESI Name: HUMACAO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18067-B7

QUAD Name: Humacao

Managed Area (if applicable): Reserva Natural de Humacao

General Location: Río Abajo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540 or (787) 852-3663; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Fine grained sandy beaches, mangroves, gravel beaches and exposed rocky shores.

Wildlife: Diving birds, wading birds and waterfowl. Wildlife preserve.

Threaten/Endangered Species: Hawksbill and Leatherback turtles, West Indian Manatee and Brown Pelican.

Socio-Economic Resources: Primate research center at Cayo Santiago, fishing village and public beach.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access to the northern beach area can be made along Rt. 3. The southern beach area can only be accessed through the Humacao sewage treatment plant. Boat: Several small docks are located at Playa De Humacao.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: PRDNER has an office near El Morrillo.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1200

Boom Type:

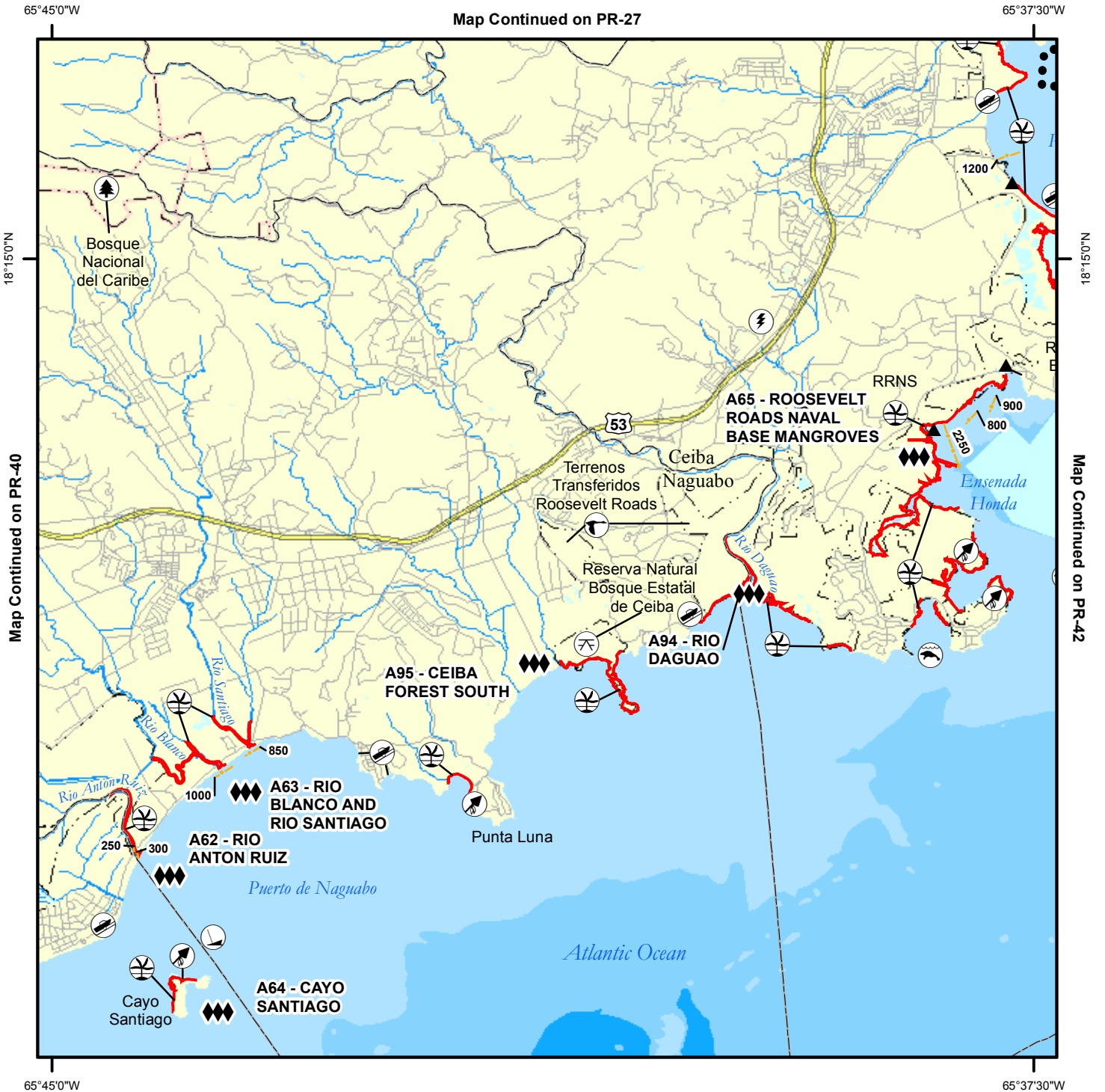
Booming Method: Deflection, Protection/Exclusion

Protection Strategy: Deploy 50 ft. of exclusion boom, or construct an underflow dam, across the canal. The marsh at times is breached southwest of El Morrillo. If it's breached, consider constructing an underflow dam, or deploying 400 ft. of boom across the opening. Nearshore protection strategies are not normally feasible along the beach, however cascade booming (1,150 ft.) should be considered. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-41

Map Continued on PR-27



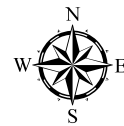
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

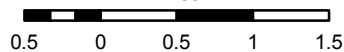
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐦 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalties/USVI Districts



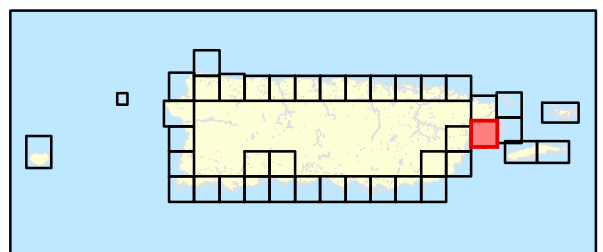
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US Coast Guard Sector San Juan



Fish and Wildlife Research Institute



Name: RIO ANTON RUIZ

Site ID:

A62

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 10' 18.001" N

Longitude (DMS): 65° 44' 12.001"

County: Humacao

Latitude (DD): 18.17166702

Longitude (DD): -65.73666700

SCAT Division: Naguabo County Division 1

ESI Map: PR-41

ESI Name: NAGUABO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-B6

QUAD Name: Naguabo

Managed Area (if applicable):

General Location: Río

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540 or (787) 852-3663; Central Police - (787) 850-4000; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Sheltered mangroves up river, and fine grained sandy beaches.**Wildlife:** Waterfowl, shore birds and wading birds.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access can be made along Rt. 3. Boat: Several small docks are located at Playa De Humacao, and a boat ramp is located at Playa De Naguabo.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:****Response Resources:** The P.R. DNER has an office near El Morrillo.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 400**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: The river mouth is often closed to the sea. If the river is influenced by the tidal waters deploy 400 ft. of exclusion boom, or construct a berm. Deploy wildlife control measures to protect birds.



Name: RIO BLANCO AND RIO SANTIAGO

Site ID:

A63

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 11' 0.000" N

Longitude (DMS): 65° 43' 30.000"

County: Naguabo

Latitude (DD): 18.18333299

Longitude (DD): -65.72499997

SCAT Division: Naguabo County Division 1

ESI Map: PR-41

ESI Name: NAGUABO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-B6

QUAD Name: Naguabo

Managed Area (if applicable):

General Location: Río

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 723-3045; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540 or (787) 852-3663; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; Central Police - (787) 850-4000; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Sheltered mangroves up river and fine grained sandy beaches.

Wildlife: Waterfowl, shore birds and wading birds.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access can be made along Rt. 3. Boat: Several small docks are located at Playa De Humacao, and a boat ramp is located at Playa De Naguabo.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: The P.R. DNER has an office near El Morrillo.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 400

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: The river mouths are often closed to the sea. If they are influenced by tidal waters construct an underflow dam, or deploy 400 ft. exclusion boom across the mouths of the Rio Blanco and Rio Santiago. Deploy wildlife control measures to protect birds.



Name: CAYO SANTIAGO

Site ID:

A64

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 9' 17.116" N

Longitude (DMS): 65° 43' 50.992"

County: Humacao

Latitude (DD): 18.15475453

Longitude (DD): -65.73083123

SCAT Division: Humacao County Division 1

ESI Map: PR-41

ESI Name: NAGUABO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-B6

QUAD Name: Naguabo

Managed Area (if applicable):

General Location: Punta Santiago

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540, (787) 852-3663; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; P.R. Institute of Culture (ICP) Director; (787) 723-6246 or 721-5274 (787) 850-0000 x9459; x9360; NOAA - Brad Benggio (206) 849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number. Subaquatic resources at risk. Contact ICP at the above number.

Habitat: Exposed mangroves and gravel beaches.

Wildlife: Colony of Rhesus Monkeys used for scientific research.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boat: P.R. DNER should be contacted to coordinate access.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources: The P.R. DNER has an office near El Morrillo.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Notify the University of P.R. if Cayo Santiago is threatened. Oil should collect in the cove on the east side of the island.



Name: ROOSEVELT ROADS NAVAL BASE MANGROVES

Site ID:

A65

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 13' 30.000" N

Longitude (DMS): 65° 38' 0.000" W

County: Ceiba

Latitude (DD): 18.22499999

Longitude (DD): -65.63333301

SCAT Division: Ceiba County Division 1

ESI Map: PR-41

ESI Name: NAGUABO, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-B6

QUAD Name: Naguabo

Managed Area (if applicable):

General Location: Guayacán

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; U. S. Navy - NOSCDR - (787) 865-2000 x 4030; NOSC (Spill Response) x 4083; Surface Ops. x 4005, x 5357, x 4043 x4323, Fire Dept. x 4333, P.R. State Historic Preservation - (787) 721-3737/30; Office Director (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Exposed and sheltered mangroves, mixed sand & fill, gravel beaches, riprap & exposed vertical rocky shores.

Wildlife: Sea turtles, diving birds, water fowl, Least Grebe and West Indian Whistling Duck.

Threaten/Endangered Species: West Indian Manatee, Brown Pelican and Hawksbill Turtle.

Socio-Economic Resources: Naval base and recreational area, which include private beaches and a marina.

RESPONSE CONSIDERATIONS

Staging Area: Call base security to gain access. The Naval base has an airstrip and vessel berthing for large and small vessels. Facility would be used as a major staging area during a spill of national significance.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources: CAUTION: The west end of Esenada Honda is a popular manatee feeding area. Powerboats are to operate at slow speed so as not to endanger the animals., * Note: The disposition of the base is in question as the Navy has pulled out and is currently undergoing a owner/managemnet transfer.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 4700

Boom Type:

Booming Method: Deflection,
Protection/Exclusion

Protection Strategy: Deploy 2,500 ft. of exclusion boom from Coast Guard Pier to the east end of mangroves south of the pier. Use C.G. Pier as collection point. Deploy two 600 ft. of diversion boom from Pta. Cascajo. Deploy 1,000 ft. of exclusion boom to protect mangroves near natural collection point east of marina. Consider using offshore dispersants and pre-application of a wetting agent on mangroves. Use Wildlife control measures to protect birds.



Name: RIO DAGUAO

Site ID:

A94

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Dagua River and River Mouth

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 12' 26.423" N

Longitude (DMS): 65° 39' 39.466"

County: Ceiba

Latitude (DD): 18.20733966

Longitude (DD): -65.66096280

SCAT Division: Ceiba Division 1

ESI Map: PR-41

ESI Name: NAGUABO, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES WEST INDIES

USGS Quad: 18065-B6

QUAD Name: Naguabo

Managed Area (if applicable): Terrenos Transferidos Roosevelt Roads

General Location: Guayacan

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. State Historic Preservation - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Mangroves

Habitat: Mangroves, Seagrass, Scrub-Shrub Wetlands

Wildlife: Passerine Birds, Scaly-naped pigeon, White-crowned pigeon, White-winged dove, Yellow-shouldered blackbird, Zenaida dove
Nursery fish, Snook, Tarpon, Blue land crab, West Indian manatee, Green sea turtle, Hawksbill sea turtle Dolphins, Whales, Pelagic fish, Reef fish, Caribbean spiny lobster, Octopus, Queen conch

Threaten/Endangered Species: Yellow-shouldered blackbird, West Indian manatee, Green sea turtle, Hawksbill sea turtle

Socio-Economic Resources: Archaeological sites in area, Commercial fishing in area.

RESPONSE CONSIDERATIONS

Staging Area:

Collection Points:

Area Access:

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy:



Name: CEIBA FOREST SOUTH

Site ID:

A95

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Ceiba State Forest and coastline

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 11' 58.386" N

Longitude (DMS): 65° 41' 11.344"

County: Naguabo

Latitude (DD): 18.19955170

Longitude (DD): -65.68648433

SCAT Division: Naguabo Division 1

ESI Map: PR-41

ESI Name: NAGUABO, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES WEST INDIES

USGS Quad: 18065-B6

QUAD Name: Naguabo

Managed Area (if applicable): Bosque Estatal de Ceiba

General Location: Maricao-Daguao

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. State Historic Preservation - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Mangroves, Fine to Medium Grained Sand Beaches, Exposed Tidal Flats

Habitat: Mangroves, Seagrass, Scrub-Shrub Wetlands

Wildlife: Scaup-naped Pigeon, White-crowned Pigeon, White-winged dove, Yellow-shouldered blackbird, Zenaida dove Nursery fish, Snook, Tarpon, Blue land crab, West Indian manatee, Green sea turtle, Hawksbill sea turtle Dolphins, Whales, Pelagic fish, Reef fish, Caribbean spiny lobster, Octopus, Queen conch

Threaten/Endangered Species: Yellow-shouldered blackbird, West Indian manatee, Green sea turtle, Hawksbill sea turtle, Brown Pelican

Socio-Economic Resources: Archaeological sites in area

RESPONSE CONSIDERATIONS

Staging Area:

Collection Points:

Area Access:

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy:



Geographic Response Plan Map: PR-42

65°37'30"W

Map Continued on PR-28

65°30'0"W

Map Continued on PR-41

18°15'0"N

18°15'0"N

65°37'30"W

65°30'0"W

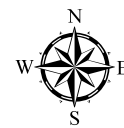
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



Miles

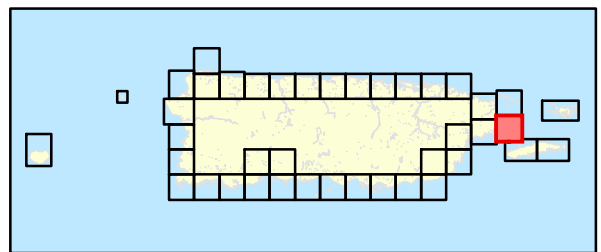
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US Coast Guard Sector San Juan



Fish and Wildlife Research Institute



Name: LOS MACHOS AND PINEROS

Site ID:

A66

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 15' 0.000" N

Longitude (DMS): 65° 36' 29.999"

County: Ceiba

Latitude (DD): 18.25000000

Longitude (DD): -65.60833300

SCAT Division: Ceiba County Division 1

ESI Map: PR-42

ESI Name: PUNTA PUERCA, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-B1

QUAD Name: Punta Puerca

Managed Area (if applicable): Reserva Natural Bosque Estatal de Ceiba

General Location: Machos

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; U. S. Navy - NOSCDR - (787) 865-2000 x 4030; NOSC (Spill Response) x 4083; Surface Ops. x 4005, x 5357, x 4043 x4323, Fire Dept. x 4333; USCG Patrol Boat Squadron - (787) 865-2512, FAX (787) 865-1160; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Sheltered mangroves, exposed mangroves, fine grained beaches and sandy beaches.**Wildlife:** Manatee feeding area.**Threaten/Endangered Species:** Hawksbill Sea Turtle and West Indian Manatee.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Call base security to gain access. The Naval base has an airstrip and vessel berthing for large and small vessels. Boat: 18 ft. wide boat ramp is located at Puerto Medio Mundo, but it's in poor condition.

Collection Points:**Area Access:** aircraft/boat/helicopter/vehicle**Spill Risk:**

Response Resources: CAUTION: This area is a popular manatee feeding area, so power boats are to operate at slow speeds. AVAILABLE ON SITE RESOURCES: See the oil spill contingency plan for Naval Station Roosevelt Roads (SJ002)., Staging: The base would be used as a major staging area during a spill of national significance.

PROTECTION STRATEGY INFORMATION

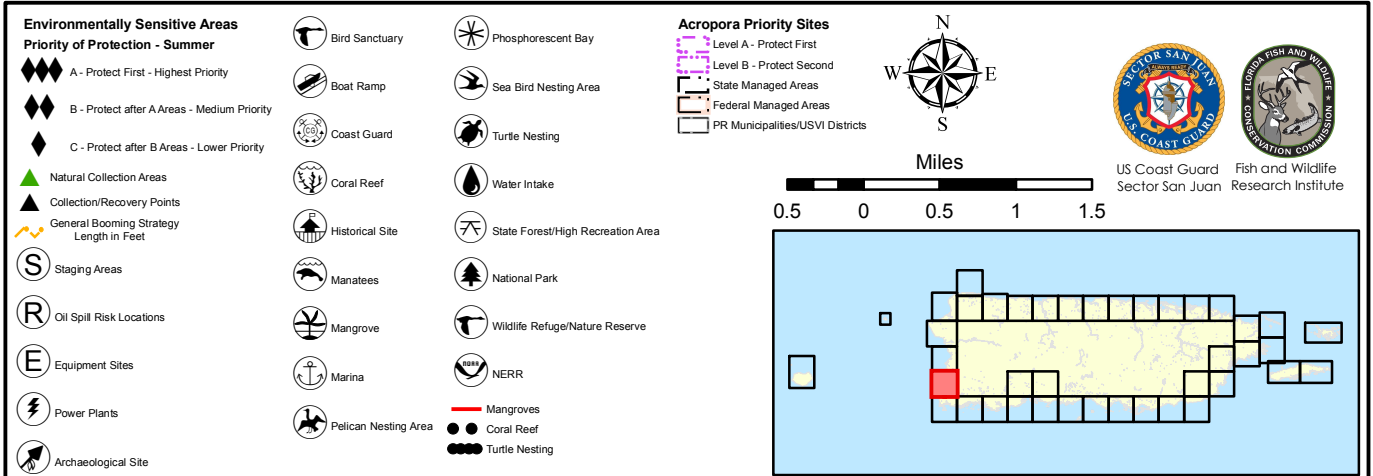
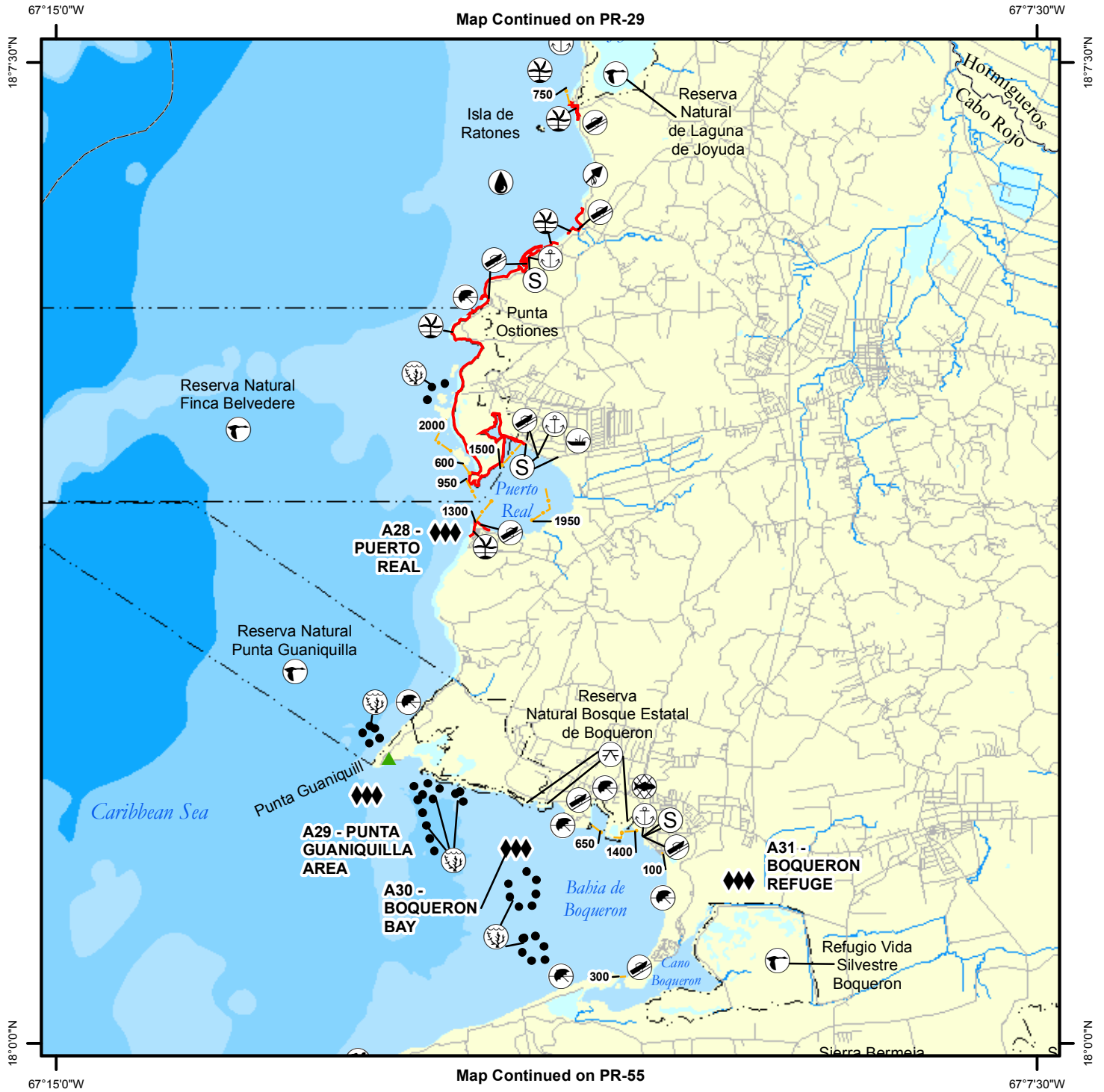
Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1800**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Deploy 800' of exclusion boom across east opening & 1,000' of exclusion boom across north opening of mangroves at Punta Medio Mundo. Consider containment booming, skimming, offshore dispersants & pre-application of wetting agent to protect mangroves. Use wildlife control measures to protect birds.



Geographic Response Plan Map: PR-43

Map Continued on PR-29



Name: PUERTO REAL

Site ID:

A28

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 4' 0.001" N

Longitude (DMS): 67° 12' 0.000" W

County: Cabo Rojo

Latitude (DD): 18.06666698

Longitude (DD): -67.20000001

SCAT Division: Cabo Rojo County Division 1

ESI Map: PR-43

ESI Name: PUERTO REAL, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-A2

QUAD Name: Puerto Real

Managed Area (if applicable):

General Location: Miradero

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; Pescaderia Rosa's - (787) 833-1345; P.R. DNER - Mayaguez - (787) 832-2972; P.R. DNER - Mayaguez (Alt) - (787) 833-4344/3700; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Sheltered and exposed mangroves and coarse grained sandy beaches.

Wildlife: Diving birds and wading birds.

Threaten/Endangered Species: Brown pelican.

Socio-Economic Resources: Fishing village, commercial fishing center.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available through Puerto Real Marina. Boat: Two 20' ft. wide boat ramps are at the marina's in Puerto Real.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3000

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 3,000 ft. of exclusion boom. Sorbent boom, oil snare, hard boom, offshore dispersants and the pre-application of a wetting agent should all be considered to protect the 2.5 miles of exposed mangroves. Deploy wildlife control measures to protect birds.



Name: PUNTA GUANIQUILLA AREA

Site ID:

A29

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 2' 0.000" N

Longitude (DMS): 67° 12' 0.000" W

County: Cabo Rojo

Latitude (DD): 18.03333300

Longitude (DD): -67.20000001

SCAT Division: Cabo Rojo County Division 1

ESI Map: PR-43

ESI Name: PUERTO REAL, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-A2

QUAD Name: Puerto Real

Managed Area (if applicable): Reserva Natural Bosque Estatal de Boqueron

General Location: Pedernales

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Mayaguez - (787) 833-1345, (787) 832-2972; P.R. DNER Mayaguez (Alt) - (787) 833-4344/3700; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Gravel beaches, mixed sand & gravel beaches and fill, coarse grained sand beaches, and riprap.

Wildlife: Sea turtles and diving birds.

Threaten/Endangered Species: Hawksbill Turtle and Brown Pelican.

Socio-Economic Resources: Great Blue Heron and Frigate Bird, high recreation beaches.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: No road access around Punta Guaniquilla. Boat: Boat access via Villa Marina.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Conduct containment booming and skimming before oil reaches the two miles of exposed mangroves on the north side of Boqueron Bay. Consider using offshore dispersants, and the pre-application of a wetting agent on the mangroves.



Name: BOQUERON BAY

Site ID:

A30

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 1' 30.000" N

Longitude (DMS): 67° 10' 30.000"

County: Cabo Rojo

Latitude (DD): 18.02499999

Longitude (DD): -67.17500000

SCAT Division: Cabo Rojo County Division 1

ESI Map: PR-43

ESI Name: PUERTO REAL, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-A2

QUAD Name: Puerto Real

Managed Area (if applicable): Refugio Vida Silvestre Boqueron

General Location: Boquerón

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Mayaguez - (787) 833-1345, (787) 832-2972; P.R. DNER - Mayaguez (Alt) - (787) 833-4344/3700; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Sheltered mangroves, coarse grained sand beaches and exposed mangroves.

Wildlife: Sea turtles, diving birds and shore birds.

Threaten/Endangered Species: Hawksbill Turtle and Brown Pelican.

Socio-Economic Resources: Public beach, marinas and camping areas.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available along the commercial waterfront. Boat: A 20 ft. wide boat ramp is located at Boqueron Club Nautico, and a private 12 ft. wide boat ramp is located at Villa Taina Housing area and ramp at DNER facility in Cano Boqueron.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 2800

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 2,800 ft. of exclusion boom to protect the waterfront and marina. Containment booming and skimming is recommended in this area. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Name: BOQUERON REFUGE

Site ID:

A31

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 1' 0.001" N

Longitude (DMS): 67° 10' 30.000"

County: Cabo Rojo

Latitude (DD): 18.01666701

Longitude (DD): -67.17500000

SCAT Division: Cabo Rojo County Division 1

ESI Map: PR-43

ESI Name: PUERTO REAL, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 18067-A2

QUAD Name: Puerto Real

Managed Area (if applicable): Refugio Vida Silvestre Boqueron

General Location: Boquerón

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Mayaguez - (787) 833-1345, (787) 832-2972; P.R. DNER - Mayaguez (Alt) - (787) 833-4344/3700; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Sheltered mangroves, coarse grained sand beaches and exposed mangroves.

Wildlife: Sea turtles, diving birds and shore birds.

Threaten/Endangered Species: Hawksbill Turtle and Brown Pelican.

Socio-Economic Resources: Public beach, marinas and camping areas.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: A beach access road from Boqueron allows access along shore to the mouth of the refuge. Boats: Boat ramp at DNER facility in Cano Boqueron.

Collection Points:

Area Access: vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 1,000 ft. of diversion boom at the entrance of Cano Boqueron. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-53

Map Continued on PR-40

Map Continued on PR-65



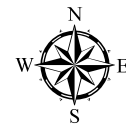
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts



Miles

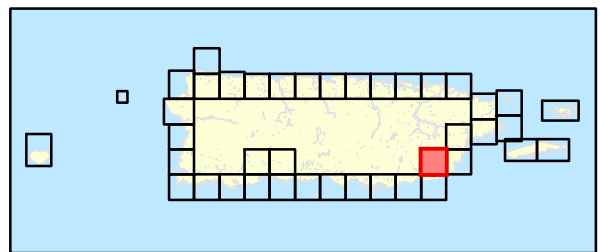
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US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Geographic Response Plan Map: PR-54

Map Continued on PR-40



Map Continued on PR-65

Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐦 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts

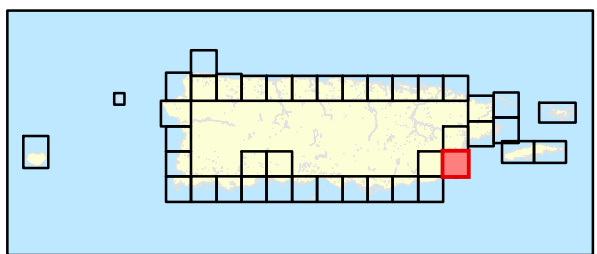


Miles

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US Coast Guard Sector San Juan Fish and Wildlife Research Institute



Name: RIO GUAYANES

Site ID:

A59

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 3' 29.999" N

Longitude (DMS): 65° 49' 30.000"

County: Yabucoa

Latitude (DD): 18.05833301

Longitude (DD): -65.82500000

SCAT Division: Yabucoa County Division 1

ESI Map: PR-54

ESI Name: PUNTA GUAYANES, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

USGS Quad: 18065-A7

QUAD Name: Punta Guayanes

Managed Area (if applicable):

General Location: Playa

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER - Guayama (Alt) - (CEL) 385-8477, P.R. DNER, Guayama - (787) 864-4776-0771, P.R. DNER, Guayama (Alt) - (787) 839-0337,; SOL (787) 893-2424, (787) 721-3737/30; NOAA - Brad Benggio (206) 849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area, including the Punta Tuna Lighthouse. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Protected mangroves behind beach berm, gravel beaches and fine grain sandy beaches.

Wildlife: Wading birds and coral reef.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: Point Tuna Lighthouse (no longer active as a USCG Lighthouse, but is privately owned instead).

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is limited due to several streams that run perpendicular to the beach. Boat: A boat ramp is located near southern SOL entrance to Yabucoa Bay. OTHER SIGNIFICANT INFO: A boat ramp is not located in shell facility.

Collection Points:

Area Access: vehicle/boat

Spill Risk:

Response Resources: AVAILABLE ON SITE RESOURCE: See Shell SOL spill response plan.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 500

Boom Type:

Booming Method: Deflection

Protection Strategy: If marsh is breached deploy 500 ft. of diversion boom, or construct an underflow dam across the mouth of the marsh. The beach is often high energy. Exclusion boom entrance to Yabucoa Bay (reference shell Yabucoa FRP)



Name: PALMAS DEL MAR

Site ID:

B60

Protection Priority (Season):

Spring:

☐

Summer:

☐

Fall:

☐

Winter:

☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 4' 48.000" N

Longitude (DMS): 65° 47' 48.001"

County: Humacao

Latitude (DD): 18.08000001

Longitude (DD): -65.79666699

SCAT Division: Humacao County Division 1

ESI Map: PR-54

ESI Name: PUNTA GUAYANES, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

USGS Quad: 18065-A7

QUAD Name: Punta Guayanes

Managed Area (if applicable):

General Location: Candelero Abajo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Humacao - Oil Spills - (787) 852-3666 or (CEL) 383-6540 or (787) 852-3663; Palmas del Mar - Security - (787) 852-6000 x 10427; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: riprap and sandy beach.

Wildlife: None reported. (Coral)

Threaten/Endangered Species: None reported.

Socio-Economic Resources: Marina and recreational areas.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Enter through Palmas Del Mar. Boat: Palmas del Mar has a 24 Ft. wide boat ramp, and a 50 ton capacity travel lift. Aircraft: Palmas del Mar has an airstrip, but it is not in service.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: The P.R. DNER has an office near El Morrillo.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1050

Boom Type:

Booming Method: Containment/Protection/Exclusion

Protection Strategy: Deploy 50 ft. of exclusion boom across channel at the north end of the lagoon and 500 ft. across the main boat channel. Deploy 500 ft. of collection boom on riprap just south of the canal and another 500 ft. near the point of land just south of the main channel entrance. Consider cascade booming along the beach.



Geographic Response Plan Map: PR-55

Map Continued on PR-43



Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌴 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



Miles

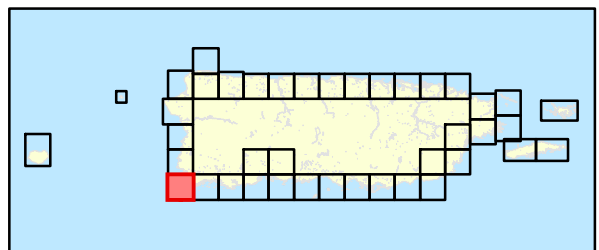
0.5 0 0.5 1 1.5



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: CABO ROJO SALT FLATS

Site ID:

A32

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 55' 30.000" N

Longitude (DMS): 67° 11' 0.000" W

County: Cabo Rojo

Latitude (DD): 17.92500001

Longitude (DD): -67.18333297

SCAT Division: Cabo Rojo County Division 1

ESI Map: PR-55

ESI Name: CABO ROJO, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 17067-H2

QUAD Name: Cabo Rojo

Managed Area (if applicable):

General Location: Llanos Costa

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 7234-5700; P.R. DNER - Mayaguez - (787) 833-1345; P.R. DNER - Mayaguez (Alt) - (787) 833-4434; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Exposed vertical rocky shore and seawalls, fine grained sand beaches, exposed mangroves, coarse grained sand beaches, gravel beach and riprap.

Wildlife: Newly designated as a wildlife reserve. Sea turtle, diving birds, migrating shore birds, Least Tern, White-tailed Tropic Bird and Piping Plover.

Threaten/Endangered Species: Hawksbill Turtle, Green Turtle and Leatherback Turtle.

Socio-Economic Resources: Public beach.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Rt. 301 and turn onto the limestone road. Boat: A boat ramp is located at Combate Beach.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: This area recently designated as a wildlife Reserve.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

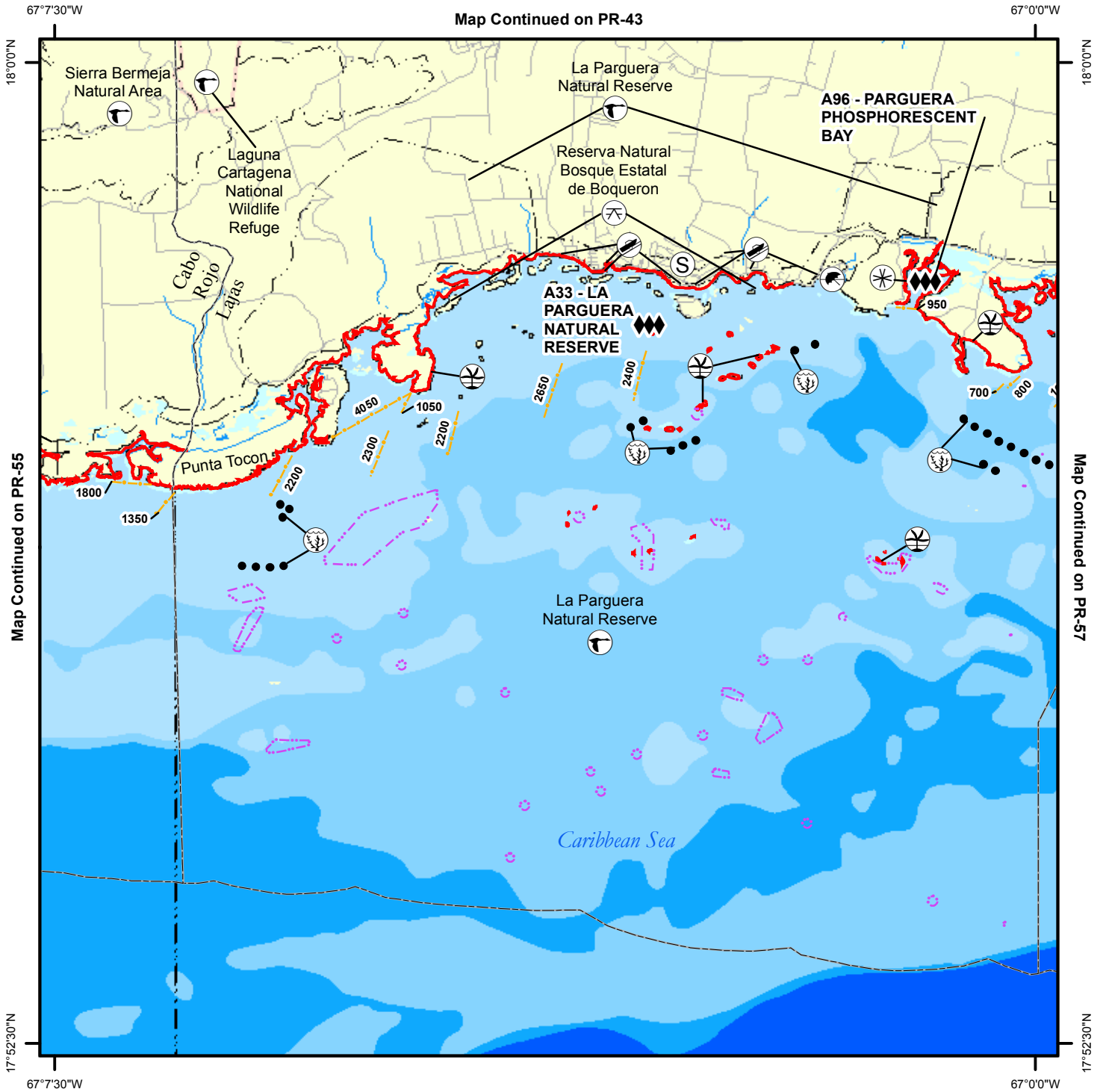
Booming Method:

Protection Strategy: Nearshore protection strategies not normally feasible in this area. Consider using diversion boom offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-56

Map Continued on PR-43



Map Continued on PR-55

Map Continued on PR-57

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Miles

0.5 0 0.5 1 1.5

US Coast Guard Sector San Juan

Florida Fish and Wildlife Conservation Commission

Name: LA PARGUERA NATURAL RESERVE

Site ID:

A33

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 0.001" N

Longitude (DMS): 67° 3' 0.000" W

County: Lajas

Latitude (DD): 17.96666700

Longitude (DD): -67.04999997

SCAT Division: Lajas County Division 1

ESI Map: PR-56

ESI Name: PARGUERA, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 17067-H1

QUAD Name: Parguera

Managed Area (if applicable): La Parguera Natural Reserve, Reserva Natural Bosque Estatal de Boqueron

General Location: Parguera

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Ponce - Oil Spills - (787) 844-4660; P.R. DNER Ponce (Alt) - Oil Spills - (787) 844-3260 or P.R. DNER, Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological site in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Exposed mangroves, exposed vertical rocky shore, gravel beach and riprap, coarse grained sand beaches, sheltered mangroves, turtle grass and bioluminescent bays.

Wildlife: Hawksbill turtle, West Indian Manatee, Brown Pelican, numerous wading and diving birds, sea grass beds, coral reefs, diving birds and wildlife preserve.

Threaten/Endangered Species: Hawksbill Turtle, West Indian Manatee and Brown Pelican.

Socio-Economic Resources: Public beach and marinas. There are many small fishing coops stretching from Cayo Don Luis to Isla Guayacan. Phosphorescent Bay.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Use the La Parguera waterfront. Boat: There are boat ramps at Playa Santa, Bahia Montalva and La Parguera.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Phosphorescent Bay.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3600

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy deflection boom and conduct skimming operations before shoreline is impacted. Approximately 3,600 ft. of diversion boom is needed to protect this area. Water is normally very calm and facilitates the use of harbor boom. Consider using offshore dispersants, and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds. Deploy exclusion boom across Phosphorescent Bay entrance.



Name: PARGUERA PHOSPHORESCENT BAY

Site ID:

A96

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Phosphorescent Bay within Parguera Nature Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 19.824" N

Longitude (DMS): 67° 0' 50.311" W

County: Lajas

Latitude (DD): 17.97217342

Longitude (DD): -67.01397531

SCAT Division: Lajas Division 1

ESI Map: PR-56

ESI Name: PARGUERA, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 17067-H1

QUAD Name: Parguera

Managed Area (if applicable): La Parguera Nature Reserve

General Location: Parguera-Costa

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Ponce - Oil Spills - (787) 844-4660; P.R. DNER Ponce (Alt) - Oil Spills - (787) 844-3260 or P.R. DNER, Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Mangroves, Coarse-Grained Sand Beaches, Sheltered Tidal Flats, Gravel Beaches, Exposed Rocky Shores, Scrub-shub Wetlands, Exposed Wave-Cut Platforms in Bedrock, mud or clay

Habitat: Mangroves, Seagrass, Sheltered Tidal Flats, Scrub-Shrub Wetlands

Wildlife: Roseate tern, Seabirds, Pelagic fish, Reef fish, Caribbean spiny lobster, Green sea turtle, Hawksbill sea turtle, Leatherback sea turtle Octopus, Queen conch, Dolphins, Whales, Blue-winged teal, Shorebirds, Wading birds, Waterfowl Nursery fish, Snook, Tarpon, Blue land Crab

Threaten/Endangered Species: Roseate tern, Green sea turtle, Hawksbill sea turtle, Leatherback sea turtle

Socio-Economic Resources: Yellow-shouldered Blackbird Critical Habitat

RESPONSE CONSIDERATIONS

Staging Area:

Collection Points:

Area Access:

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy:



Geographic Response Plan Map: PR-57

Map Continued on PR-46



Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏛 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts

Miles

0.5 0 0.5 1 1.5

US Coast Guard Sector San Juan

Fish and Wildlife Research Institute

Name: GUANICA STATE FOREST (EAST)

Site ID:

A34

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 56' 0.000" N

Longitude (DMS): 66° 55' 0.001" W

County: Guánica

Latitude (DD): 17.93333298

Longitude (DD): -66.91666697

SCAT Division: Guánica County Division 1

ESI Map: PR-57

ESI Name: GUANICA, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H8

QUAD Name: Guanica

Managed Area (if applicable): Reserva Natural Bosque Estatal de Guanica

General Location: Montalva

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 723-3045; P.R. DNER - Ponce - Oil Spills - (787) 844-4660/4051; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 841-2871 or (CEL) 383-6554; P.R. DNER - Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 844-3260; Guanica State Forest- Mgmt Official - (787) 821-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed vertical rocky shores and seawalls, coarse grained sand beaches, exposed and sheltered mangroves and coral reefs.**Wildlife:** Diving birds, sea turtles and manatees.**Threaten/Endangered Species:** Pelecanus occidentalis, Hawksbill Turtle, West Indian Manatee and Green Sea Turtle.**Socio-Economic Resources:** Public beach and fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access may be made via the waterfront facility at Ensenada or Ochoa in Guanica. Boat: Access is available at Ochoa.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** DNER workers have spill response experience.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Conduct containment booming and skimming. Diversion booming should be considered. The waters are normally calm and facilitate the use of harbor boom. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.

Name: GUANICA STATE FOREST (WEST)

Site ID:

A35

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 56' 0.000" N

Longitude (DMS): 66° 57' 0.000" W

County: Guánica

Latitude (DD): 17.93333298

Longitude (DD): -66.94999999

SCAT Division: Guánica County Division 1

ESI Map: PR-57

ESI Name: GUANICA, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad: 17066-H8

QUAD Name: Guanica

Managed Area (if applicable): Reserva Natural Bosque Estatal de Guanica

General Location: Montalva

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Ponce - Oil Spills - (787) 844-4660/4051; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 841-2871 or (CEL) 383-6554; P.R. DNER - Ponce - (787) 844-3225; P.R. DNER - Ponce (Alt) - (787) 844-3260; Guanica State Forest - Mgmt Official- (787) 821-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed vertical rocky shore and seawalls, fine grained sand beaches, sheltered mangroves, sea grasses and coral reefs.**Wildlife:** Sea turtles, manatee, diving birds and raptors.**Threaten/Endangered Species:** Hawksbill turtle, West Indian Manatee, Brown Pelican and Least Tern.**Socio-Economic Resources:** Public beach and fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take dirt road off of Rt. 333 to Pta. Jacinto. Boat: Pta. Jacinto has 2 small boat ramps and several small piers.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** DNER workers have spill response experience. AVAILABLE ON SITE RESOURCES: DNER Office.

PROTECTION STRATEGY INFORMATION

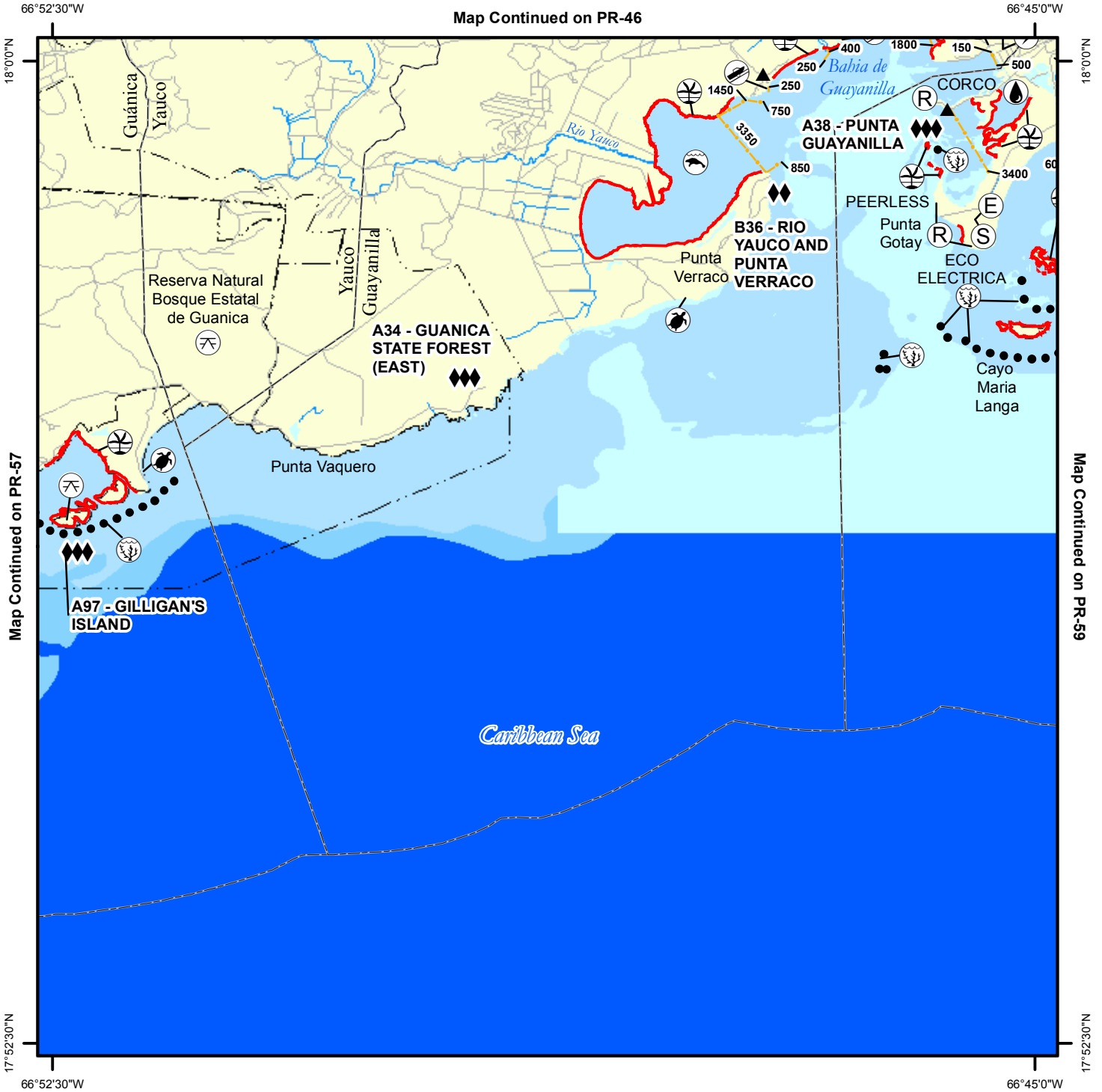
Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Conduct containment booming and skimming. Diversion booming should be considered. Waters are normally calm facilitating the use of harbor boom. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-58

Map Continued on PR-46



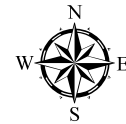
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

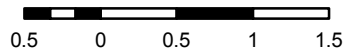
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐾 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



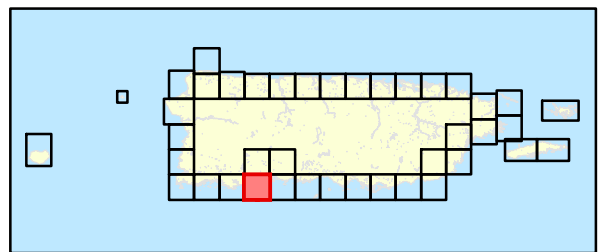
Miles



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: GUANICA STATE FOREST (EAST)

Site ID:

A34

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 56' 0.000" N

Longitude (DMS): 66° 55' 0.001" W

County: Guánica

Latitude (DD): 17.93333298

Longitude (DD): -66.91666697

SCAT Division: Guánica County Division 1

ESI Map: PR-57

ESI Name: GUANICA, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H8

QUAD Name: Guanica

Managed Area (if applicable): Reserva Natural Bosque Estatal de Guanica

General Location: Montalva

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 723-3045; P.R. DNER - Ponce - Oil Spills - (787) 844-4660/4051; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 841-2871 or (CEL) 383-6554; P.R. DNER - Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 844-3260; Guanica State Forest- Mgmt Official - (787) 821-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed vertical rocky shores and seawalls, coarse grained sand beaches, exposed and sheltered mangroves and coral reefs.**Wildlife:** Diving birds, sea turtles and manatees.**Threaten/Endangered Species:** Pelecanus occidentalis, Hawksbill Turtle, West Indian Manatee and Green Sea Turtle.**Socio-Economic Resources:** Public beach and fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access may be made via the waterfront facility at Ensenada or Ochoa in Guanica. Boat: Access is available at Ochoa.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** DNER workers have spill response experience.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Conduct containment booming and skimming. Diversion booming should be considered. The waters are normally calm and facilitate the use of harbor boom. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.

Name: PUNTA GUAYANILLA

Site ID:

A38

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 59' 30.001" N

Longitude (DMS): 66° 45' 29.999"

County: Peñuelas

Latitude (DD): 17.99166701

Longitude (DD): -66.75833301

SCAT Division: Peñuelas County Division 1

ESI Map: PR-58

ESI Name: PUNTA VERRACO, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H7

QUAD Name: Punta Verraco

Managed Area (if applicable):

General Location: Tallaboa Poniente

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 841-2871 or (CEL) 383-6554; P.R. DNER - Ponce - (787) 844-3225; P.R. DNER - Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Sheltered mangroves, mixed sand and gravel beaches.**Wildlife:** Wading birds and seabirds.**Threaten/Endangered Species:** Brown Pelican.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available through CORCO park. Boat: Access is available through the waterfront facilities.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:**

Response Resources: Demaco - (787) 835-2315, CORCO- (787) 843-3030, Betteroads Asphalt- (787) 836-1715, Peerless Chem- (787) 836-1280, Prepa Guayanilla (787) 835-2700, Pro Caribe- (787) 836-3007., AVAILABLE ON SITE RESOURCES: OSRO's on the Arch- CHED, MSRC, NRC. See facility response plans for CORCO (SJ001), Union Caribe (SJ005), Demaco Corporation (SJ022), and Betteroads Asphalt (SJ010).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 4500**Boom Type:****Booming Method:** Deflection/Protection/Exclusion

Protection Strategy: Deploy 3,500 ft. of exclusion boom to protect mangroves. Deploy 1,000 ft. of deflection boom at Pta Gotay. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Name: GILLIGAN'S ISLAND

Site ID:

A97

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Island less than 1 kilometer off coast and managed by PR-DNER Guanica State Forest

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 56' 31.694" N

Longitude (DMS): 66° 52' 19.394"

County: Guanica

Latitude (DD): 17.94213719

Longitude (DD): -66.87205378

SCAT Division: Guanica Division 1

ESI Map: PR-58

ESI Name: PUNTA VERRACO, P.R.

NOAA Chart: 25677

CHART Name: GUANICA LIGHT TO PUNTA TUNA LIGHT

USGS Quad: 17066-H7

QUAD Name: Punta Verraco

Managed Area (if applicable): Guanica State Forest

General Location: Carenero

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Ponce - Oil Spills - (787) 844-4660; P.R. DNER Ponce (Alt) - Oil Spills - (787) 8443260 P.R. DNER Ponce - (787) 844-3225; P.R. DNER - Ponce (Alt) - (787) 844-6733 Fax; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Mangroves, Scrub-Shrub Wetlands**Habitat:** Mangroves, Coral Reefs, Scrub-Shrub Wetlands**Wildlife:** Waterfowl, Nursery Fish, Snook, Blue Land Crab, Pelagic fish, Reef fish, Caribbean spiny lobster, Octopus, Queen conch, Dolphins, Whales**Threaten/Endangered Species:****Socio-Economic Resources:** Recreational and Commercial Fishing. Dive Site. Archaeological sites in area.

RESPONSE CONSIDERATIONS

Staging Area:**Collection Points:****Area Access:****Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:**

Name: RIO YAUCO AND PUNTA VERRACO

Site ID:

B36

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 59' 0.000" N

Longitude (DMS): 66° 47' 0.000" W

County: Guayanilla

Latitude (DD): 17.98333299

Longitude (DD): -66.78333301

SCAT Division: Guayanilla County Division 1

ESI Map: PR-58

ESI Name: PUNTA VERRACO, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H7

QUAD Name: Punta Verraco

Managed Area (if applicable): Priority Conservation Area

General Location: Boca

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Ponce - Oil Spills - (787) 844-4660; P.R. DNER Ponce (Alt) - Oil Spills - (787) 8443260 P.R. DNER Ponce - (787) 844-3225; P.R. DNER - Ponce (Alt) - (787) 844-6733 Fax; P.R. State Historic - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts, and pottery shards. Contact SHPO at the above number.

Habitat: Mixed sand and gravel beaches, coarse grained sand beaches, exposed vertical rocky shores, sea walls, sheltered mangroves and coral reefs.

Wildlife: Shore birds, wading birds, sea turtles and manatee.

Threaten/Endangered Species: Brown Pelicans, Green Sea Turtle, Hawksbill Turtle and West Indian Manatee.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Water front road, Rt. 136.

Collection Points:

Area Access: vehicle

Spill Risk:

Response Resources: Demaco - (787) 835-2315, CORCO- (787) 843-3030, Better Asphalt- (787) 836-1715, Peerless Chem- (787) 836-1280, Prepa Guayanilla- (787) 835-2700, Pro Caribe- (787) 836-3007. Include Ecoelectrica. OSRO- CHED- Response Equipment-1-787- 836-1880,, OSRO- MSRC-Response Equipment, OSRO-NRC- Response Equipment. AVAILABLE ON SITE RESOURCES: See facility plans for CORCO (SJ001), Demaco Corporation (SJ022) and Betterroads Asphalt (SJ010). Peerless / Ecoelectrica. Prepa Guayanilla.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 4500

Boom Type:

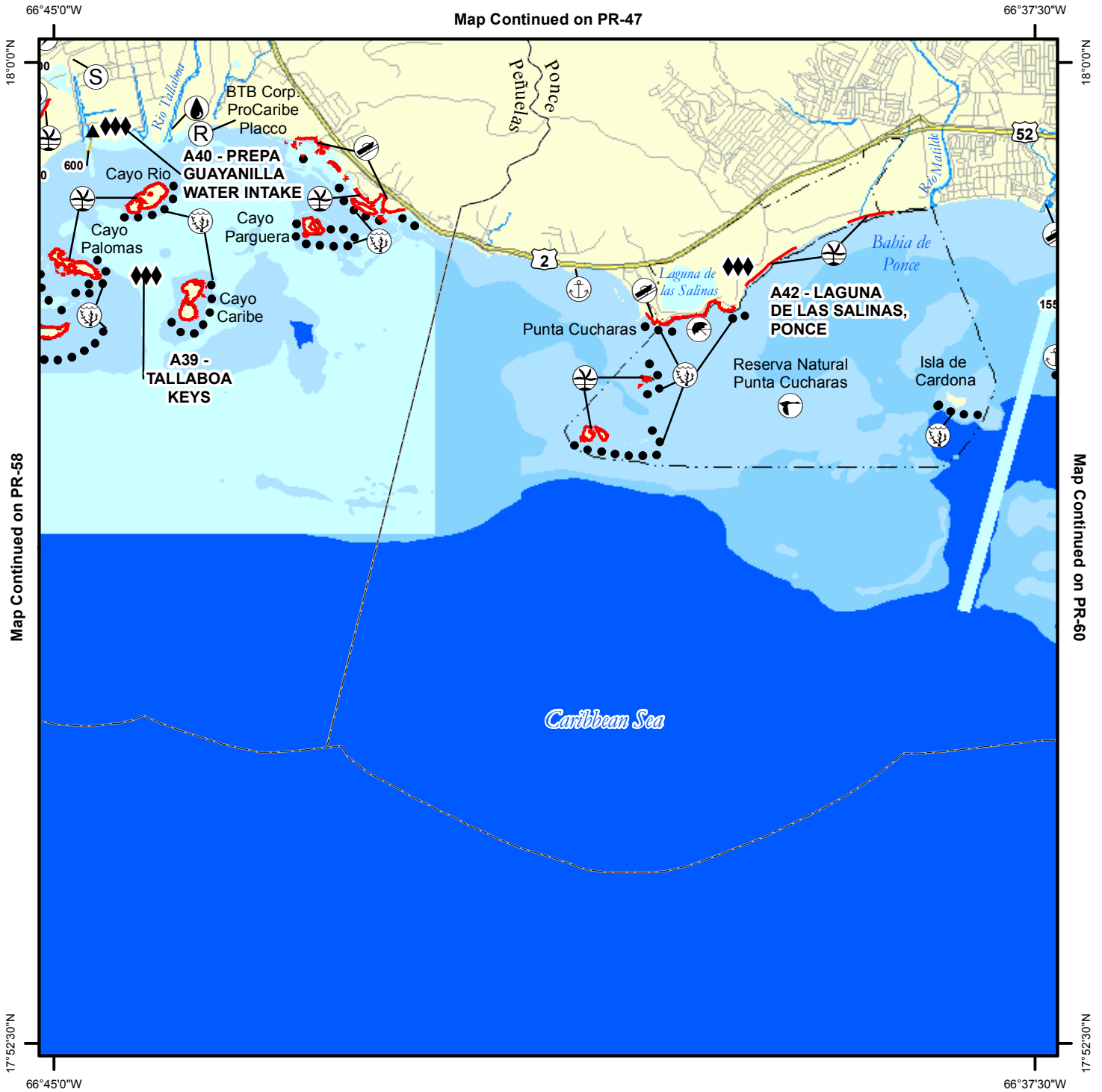
Booming Method: Protection/Exclusion

Protection Strategy: Deploy 4,500 ft. of exclusion boom across the entrance to sheltered bay. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-59

Map Continued on PR-47



Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛️ Archaeological Site

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts

- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥️ Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀️ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Miles

0.5 0 0.5 1 1.5

US Coast Guard Sector San Juan

Florida Fish and Wildlife Conservation Commission

Name: TALLABOA KEYS

Site ID:

A39

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 54.001" N

Longitude (DMS): 66° 44' 30.001"

County: Peñuelas

Latitude (DD): 17.98166699

Longitude (DD): -66.74166698

SCAT Division: Peñuelas County Division 1

ESI Map: PR-59

ESI Name: PUNTA CUCHARA, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H6

QUAD Name: Punta Cucharas

Managed Area (if applicable):

General Location: Tallaboa Poniente

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 841-2871 or (CEL) 383-6554; P.R. DNER Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Coarse grain sand beaches, exposed mangroves, fine grained sandy beaches and coral reefs.**Wildlife:** Sea birds and diving birds.**Threaten/Endangered Species:** Brown Pelican.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicles/Boat: Access is available through waterfront facilities.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:**

Response Resources: Demaco - (787) 835-2315, CORCO- (787) 843-3030, Betteroads Asphalt- (787) 836-1715, Peerless Chem- (787) 836-1280, Prepa Guayanilla- (787) 835-2700, Pro Caribe- (787) 836-3007., AVAILABLE ON SITE RESOURCES: See facility response plans for CORCO, Union Caribe, Demaco Corporation, and Betteroads Asphalt.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Conduct containment booming and skimming operations before oil reaches shore. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds. Deflection boom.



Name: PREPA GUAYANILLA WATER INTAKE

Site ID:

A40

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 59' 30.001" N

Longitude (DMS): 66° 44' 35.999"

County: Peñuelas

Latitude (DD): 17.99166701

Longitude (DD): -66.74333298

SCAT Division: Peñuelas County Division 1

ESI Map: PR-59

ESI Name: PUNTA CUCHARA, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H6

QUAD Name: Punta Cucharas

Managed Area (if applicable):

General Location: Tallaboa Poniente

CONTACT INFORMATION

Contacts: P.R. DNER - Command Ctr. - (787) 724-5700; P.R. DNER - Ranger Corps. Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 841-2871 or (CEL) 383-6554; P.R. DNER, Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt)- (787) 844-3260; NOAA - Brad Benggio (206) 849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** PREPA and CORCO water intakes.**Wildlife:** None reported.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle/Boat: Access is available through the waterfront facilities.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 100**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 100 ft. exclusion boom at each intake.

Name: LAGUNA DE LAS SALINAS, PONCE

Site ID:

A42

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 0.001" N

Longitude (DMS): 66° 40' 5.999" W

County: Ponce

Latitude (DD): 17.96666700

Longitude (DD): -66.66833300

SCAT Division: Ponce County Division 1

ESI Map: PR-59

ESI Name: PUNTA CUCHARA, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H6

QUAD Name: Punta Cucharas

Managed Area (if applicable):

General Location: Canas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - or (CEL) 383-6554; P.R. DNER, Ponce - (787) 844-3225, P.R. DNER, Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed mangroves, mixed sand and gravel beaches, and fine grained sandy beaches.**Wildlife:** Wading birds and shore birds.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** High recreation beach.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Four wheel drive is needed off of Rt. 2. Boat: Entrance to lagoon is blocked off by reef. Boat access to water is available at the port of Ponce at the old Coast Guard MSD and at the Club Nautico Ponce Marina.

Collection Points:**Area Access:** aircraft/boat/helicopter/vehicle**Spill Risk:**

Response Resources: The DNER office is in Ponce Port Area: Centro De Distribucion y Mercado Ave. Santiago De Los Caballeros Apartado.De Correo 7275 Ponce, P.R. 00732 Phone No. (787) 844-4051, 4460. Aircraft/Helicopter: Ponce (MERCEDITA) airport.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Deploy boom along the mangroves and deploy 400 ft. of exclusion boom across the lagoons' entrance. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-60

Map Continued on PR-47



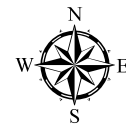
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

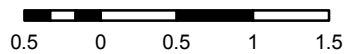
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐦 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



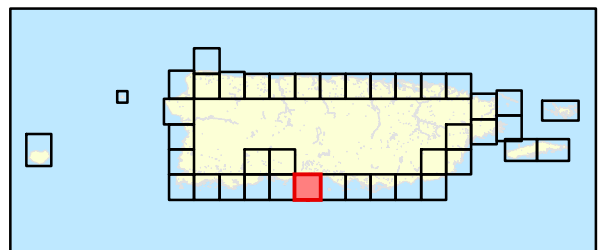
Miles



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: PUNTA CABULLON MANGROVE

Site ID:

A44

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 0.001" N

Longitude (DMS): 66° 35' 0.000" W

County: Ponce

Latitude (DD): 17.96666700

Longitude (DD): -66.58333301

SCAT Division: Ponce County Division 1

ESI Map: PR-60

ESI Name: PLAYA DE PONCE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H5

QUAD Name: Playa De Ponce

Managed Area (if applicable):

General Location: Vayas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 842-5064; P.R. DNER, Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed mangroves, coursed grained sand beaches, mixed sand and gravel beach and till.**Wildlife:** Diving and wading birds and White-Tailed Tropic bird.**Threaten/Endangered Species:** Brown Pelican.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: No access to mangrove area by car. Vehicle: Direct access via Club Nautico Marina and Ponce Ports Authority Pier.
Boat: Entrance to lagoon is blocked off by reef.

Collection Points:**Area Access:** aircraft/boat/helicopter/vehicle**Spill Risk:**

Response Resources: Ponce DNER office is in Port Area, Centro De Distribucion y Mercado, Ave. Santiago de los Caballeros., Boat access to water is available at the Port of Ponce at the old Coast Guard base and at the Club Nautico Ponce Marina boat ramps. Aircraft/ Helicopter: Ponce airport (Mercedita) Airport. Needs to be marked on map.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Conduct containment booming and skimming, with collection boom at the east end of the mangroves on the beach. Boom will have to be brought to this area by boat. Consider using offshore dispersants, and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Name: CAPITANEJO

Site ID:

A45

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 18.001" N

Longitude (DMS): 66° 32' 48.001"

County: Ponce

Latitude (DD): 17.97166701

Longitude (DD): -66.54666698

SCAT Division: Ponce County Division 1

ESI Map: PR-60

ESI Name: PLAYA DE PONCE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H5

QUAD Name: Playa De Ponce

Managed Area (if applicable):

General Location: Capitanejo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER Ponce (Alt) - Oil Spills - (787) 844-3260; P.R. DNER, Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 842-5064, Ponce Ports Authority; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Mangroves behind beach berm, mixed sand and gravel beaches.**Wildlife:** Wading birds, shorebirds and seabirds.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Four wheel drive recommended. A dirt road runs along the beach. Boat: Club Nautico in Ponce is the nearest boat ramp.

Collection Points:**Area Access:** vehicle**Spill Risk:**

Response Resources: The DNER office is in Ponce port area: Centro De Distribucion y Mercado Ave. Santiago De Los Caballeros Apartado De Correo 7275 Ponce, P.R. 00732 Phone No. (787) 844-4051/ 4460.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 200**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: When the marsh is breached construct an underflow berm or deploy 200 ft. of exclusion boom. Diversion booming should be considered under favorable weather conditions. Conduct containment booming and skimming to protect the area. Deploy wildlife control measures to protect birds.



Name: BOCA CHICA

Site ID:

A46

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 36.001" N

Longitude (DMS): 66° 31' 36.001"

County: Juana Díaz

Latitude (DD): 17.97666698

Longitude (DD): -66.52666699

SCAT Division: Juana Díaz County Division 1

ESI Map: PR-60

ESI Name: PLAYA DE PONCE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H5

QUAD Name: Playa De Ponce

Managed Area (if applicable):

General Location: Capitanejo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 844-3260; P.R. DNER, Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 842-5064, Ponce Ports Authority; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Mangroves behind beach berm, mixed sand and gravel beaches.**Wildlife:** Wading birds, shorebirds and seabirds.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: A four wheel drive vehicle is recommended. A dirt road runs along the beach. Boat: Club Nautico in Ponce is the nearest boat ramp. A shallow reef exists offshore.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:**

Response Resources: The DNER office is in the Port of Ponce. Centro De Distribucion y Mercado Ave. Santiago De Los Caballeros Apartado De Correo 7275 Ponce, P.R. 00732.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 200**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: The marsh is often isolated from the ocean. When it's breached, construct a berm, or deploy 200 ft. of exclusion boom. Nearshore protection strategies are not normally feasible near the mangroves. Diversion booming should be considered under favorable weather conditions. Conduct containment booming and skimming to protect the area. Deploy wildlife control measures to protect birds.



Name: CAJA DE MUERTOS NATURAL RESERVE

Site ID:

A47

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 53' 30.001" N

Longitude (DMS): 66° 31' 0.001" W

County: Ponce

Latitude (DD): 17.89166699

Longitude (DD): -66.51666701

SCAT Division: Ponce County Division 1

ESI Map: PR-60

ESI Name: PLAYA DE PONCE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H5

QUAD Name: Playa De Ponce

Managed Area (if applicable): Reserva Natural Caja de Muertos

General Location: Playa

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 844-3260 or (CEL) 383-6554; P.R. DNER Ponce - (787) 844-3225; P.R. DNER - Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Coarse grained sand beaches, exposed vertical rocky shore and seawalls, gravel beach and riprap.**Wildlife:** Sea turtles, sea birds and gulls, diving birds, Brown Boobies, White-tailed tropic bird and wildlife preserve.**Threaten/Endangered Species:** Hawksbill Turtle and Brown Pelican.**Socio-Economic Resources:** Coral reef underwater recreation trail.

RESPONSE CONSIDERATIONS

Staging Area: Boats: Only access available.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Ponce Maritime Police have an office in area. A ferry boat runs to Isla Caja Muertos. DNER has an office in port of Ponce.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Conduct containment booming and oil recovery operations before oil impacts the island. Consider diversion booming to protect turtle nesting site on southern tip of island.

Name: PUNTA CARENERO

Site ID:

B43

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 54.000" N

Longitude (DMS): 66° 37' 12.000"

County: Ponce

Latitude (DD): 17.96500000

Longitude (DD): -66.62000000

SCAT Division: Ponce County Division 1

ESI Map: PR-60

ESI Name: PLAYA DE PONCE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H5

QUAD Name: Playa De Ponce

Managed Area (if applicable):

General Location: Playa

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Ponce - Oil Spills - (787) 844-4660; P.R. DNER - Ponce (Alt) - Oil Spills - (787) 841-2871 or (CEL) 383-6554; P.R. DNER, Ponce - (787) 844-3225; P.R. DNER, Ponce (Alt) - (787) 844-3260; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Docks, marinas, gravel beaches riprap, and fine grained sandy beaches.**Wildlife:** Seabirds and diving birds.**Threaten/Endangered Species:** Acropora Palmata at Isla Cardona.**Socio-Economic Resources:** Recreational area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access via Club Nautico Marina and Ponce Ports Authority Pier. Boat: Entrance to the lagoon is blocked off by reef.

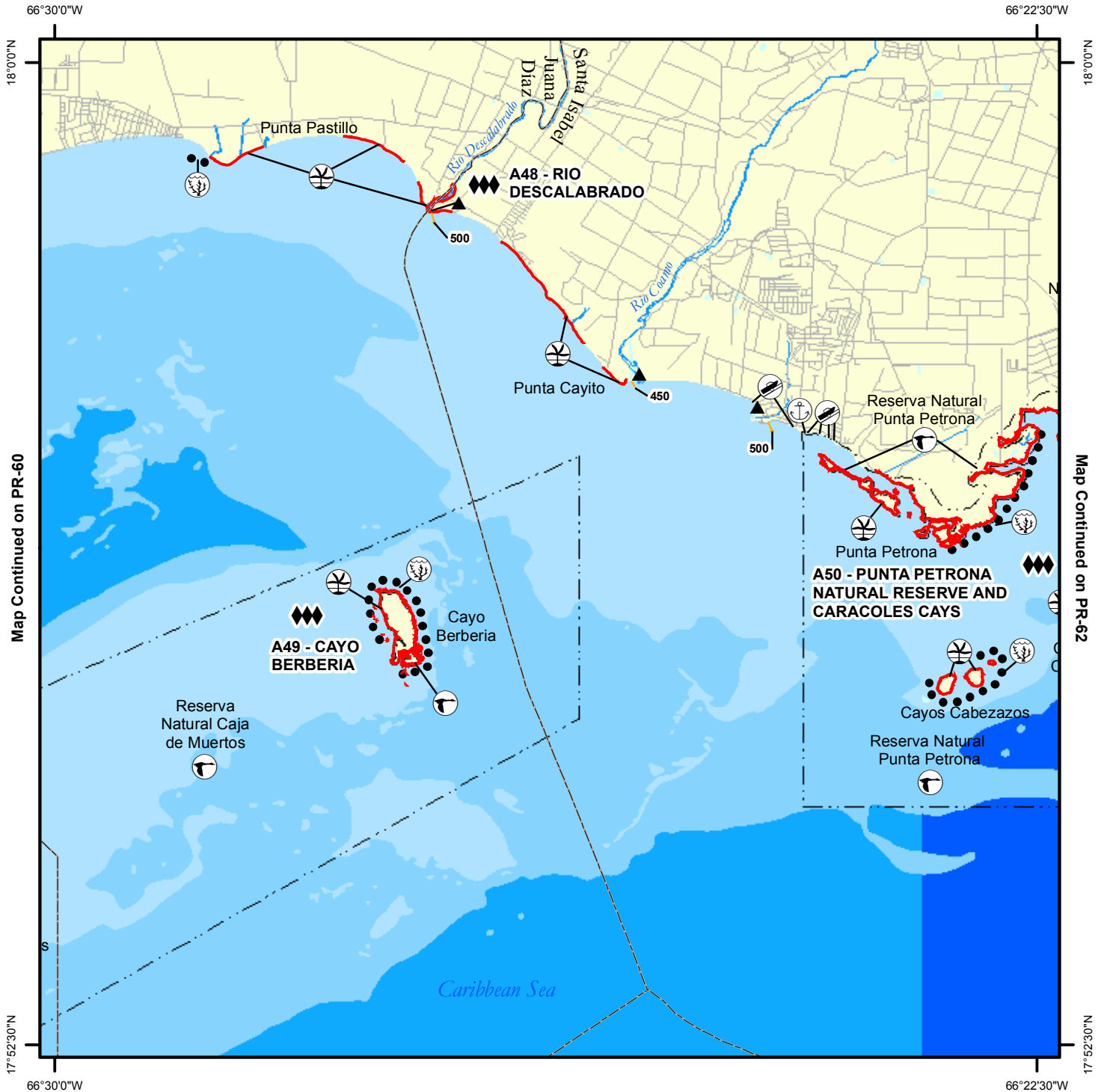
Collection Points:**Area Access:** aircraft/boat/helicopter**Spill Risk:**

Response Resources: The DNER office is in Ponce port Area: Centor De Distribucion y Mercado Ave. Santiago De Los Caballeros Apartado De Correo 7275., Boat access to water is available at the Port of Ponce at the old Coast Guard MSD and at the Club Nautico Ponce Marina boat ramps. Aircraft/Helicopter: Ponce (MERCEDITA) airport.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2000**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 2,000 ft. of exclusion boom from Punta Carenero to the Ponce pier.

Geographic Response Plan Map: PR-61



Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- 🐠 Coral Reef
- 🐢 Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



Miles

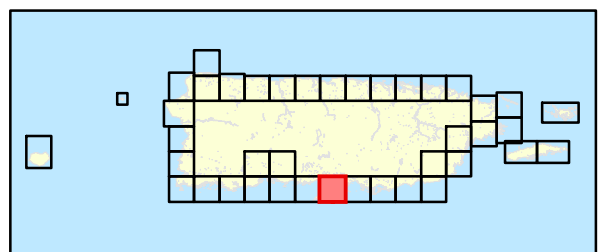
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US Coast Guard Sector San Juan



Fish and Wildlife Research Institute



Name: RIO DESCALABRADO

Site ID:

A48

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 59' 0.000" N

Longitude (DMS): 66° 27' 11.999"

County: Juana Díaz

Latitude (DD): 17.98333299

Longitude (DD): -66.45333302

SCAT Division: Juana Díaz County Division 1

ESI Map: PR-61

ESI Name: SANTA ISABEL, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H4

QUAD Name: Santa Isabel

Managed Area (if applicable):

General Location: Río Cañas Abajo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER Guayama (Alt) - (CEL) 385-8477; P.R. DNER, Guayama - (787) 864-4776/0771, P.R. DNER; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Mangroves behind beach berm, mixed sand and gravel beaches, exposed rocky platforms and coarse grained sandy beaches.**Wildlife:** Sea turtles, sea birds and shore birds.**Threaten/Endangered Species:** Hawksbill Turtle.**Socio-Economic Resources:** Fishing village.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Very accessible of Rt. 2, recommend 4 wheel drive. Boat: Ramp is a Playa de Santa Isabel. Aircraft: Aeropuerto de Santa Isabel.

Collection Points:**Area Access:** aircraft/boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1200**Boom Type:****Booming Method:** Containment/Ensnarement

Protection Strategy: Deploy 200 ft. of exclusion boom across channel entrance. Establish a collection point on the sandy beach to the east of the mangroves using 1,000 ft. of boom. Establish a second collection point to the east of mangroves at Punta Cayito. Deploy wildlife control measures to protect birds.



Name: CAYO BERBERIA

Site ID:

A49

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 55' 30.000" N

Longitude (DMS): 66° 27' 29.999"

County: Juana Díaz

Latitude (DD): 17.92500001

Longitude (DD): -66.45833298

SCAT Division: Juana Díaz County Division 1

ESI Map: PR-61

ESI Name: SANTA ISABEL, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H4

QUAD Name: Santa Isabel

Managed Area (if applicable):

General Location: Río Cañas Abajo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER - Guayama (Alt) - (CEL) 385-8477; P.R. DNER Guayama - (787) 864-4776/0771; P.R. DNER, Guayama (Alt) - (787) 839-0337; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed and sheltered mangroves and coral reefs.**Wildlife:** Diving birds, wading birds, shorebirds and wildlife preserve of Cayo Berberia.**Threaten/Endangered Species:** Brown pelican.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Nearest boat ramp is at Playa de Santa Isabel.**Collection Points:****Area Access:** boat**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Nearshore containment strategies are not normally feasible in this area. Diversion booming should be considered under ideal weather conditions. Conduct containment booming and skimming operations to protect island. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Name: PUNTA PETRONA NATURAL RESERVE AND CARACOLES CAYS

Site ID:

A50

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 0.000" N

Longitude (DMS): 66° 23' 30.001"

County: Santa Isabel

Latitude (DD): 17.95000001

Longitude (DD): -66.39166698

SCAT Division: Santa Isabel County Division 1

ESI Map: PR-61

ESI Name: SANTA ISABEL, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H4

QUAD Name: Santa Isabel

Managed Area (if applicable): Punta Petrona Natural Reserve

General Location: Felicia

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER Guayama - (787) 864-4776/0771; P.R. DNER Guayama (Alt) - (787) 864-1515; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Exposed mangroves, sheltered mangroves, fine and course grained sand beaches, and coral reefs.

Wildlife: Thalassia beds, diving birds and sea turtles.

Threaten/Endangered Species: Brown Pelican, West Indian Manatee and Frigate Bird.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access via Rt. 538 to Playa Santa Isabel. No access is available to mangroves by vehicles. Boat: Access via Playa Santa Isabel. Aircraft: Aeropuerto de Santa Isabel.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

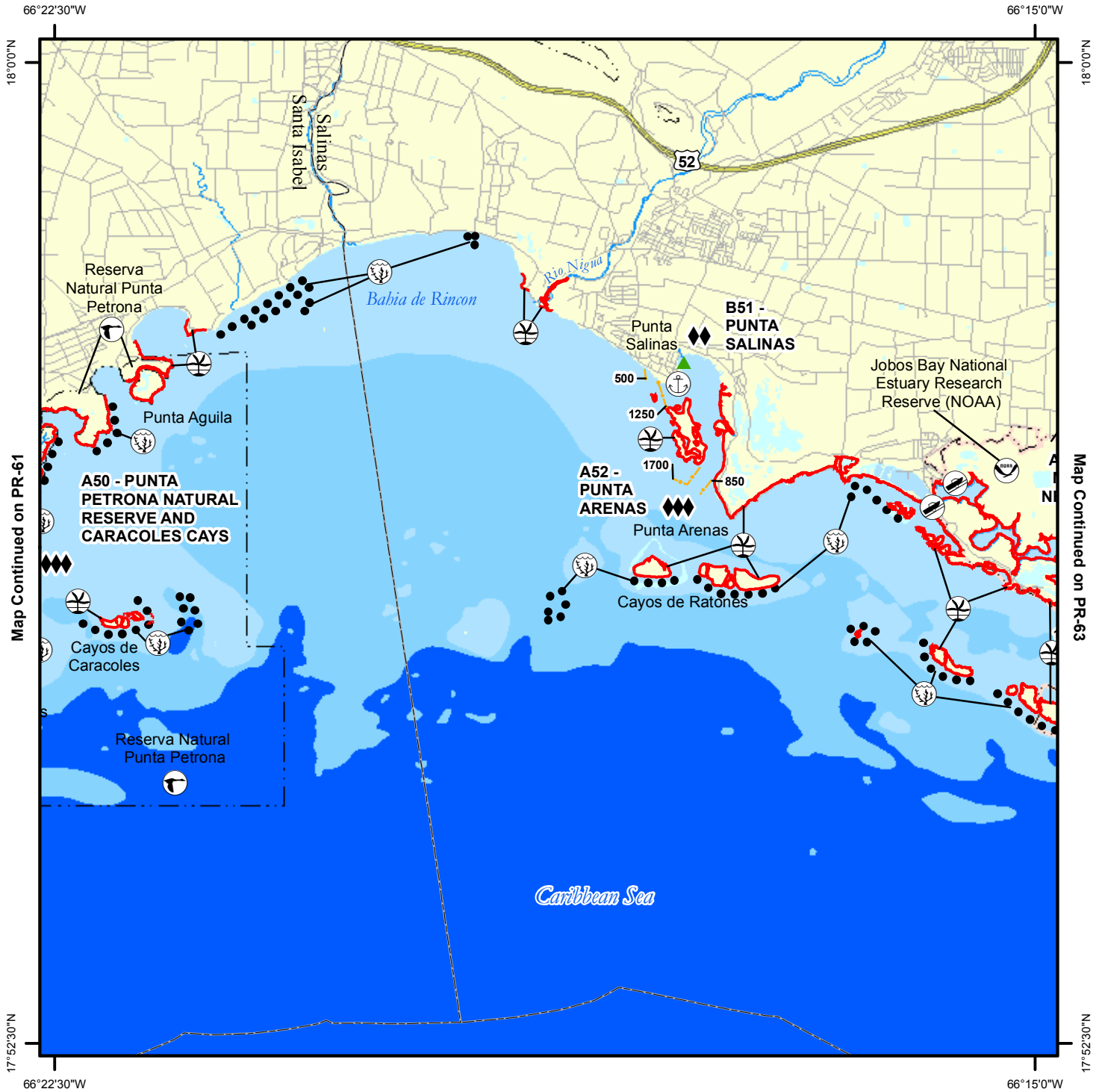
Boom Type:

Booming Method:

Protection Strategy: Due to the extensive exposed mangroves in this area consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Conduct containment booming and skimming to protect shore. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-62



Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏠 Archaeological Site

- 🕊 Bird Sanctuary
- 🚢 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦆 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts

Miles

0.5 0 0.5 1 1.5

US Coast Guard Sector San Juan

Fish and Wildlife Research Institute

Name: PUNTA PETRONA NATURAL RESERVE AND CARACOLES CAYS

Site ID:

A50

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Natural Reserve

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 0.000" N

Longitude (DMS): 66° 23' 30.001"

County: Santa Isabel

Latitude (DD): 17.95000001

Longitude (DD): -66.39166698

SCAT Division: Santa Isabel County Division 1

ESI Map: PR-61

ESI Name: SANTA ISABEL, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H4

QUAD Name: Santa Isabel

Managed Area (if applicable): Punta Petrona Natural Reserve

General Location: Felicia

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER Guayama - (787) 864-4776/0771; P.R. DNER Guayama (Alt) - (787) 864-1515; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Exposed mangroves, sheltered mangroves, fine and course grained sand beaches, and coral reefs.

Wildlife: Thalassia beds, diving birds and sea turtles.

Threaten/Endangered Species: Brown Pelican, West Indian Manatee and Frigate Bird.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access via Rt. 538 to Playa Santa Isabel. No access is available to mangroves by vehicles. Boat: Access via Playa Santa Isabel. Aircraft: Aeropuerto de Santa Isabel.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Due to the extensive exposed mangroves in this area consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Conduct containment booming and skimming to protect shore. Deploy wildlife control measures to protect birds.



Name: PUNTA ARENAS

Site ID:

A52

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 0.000" N

Longitude (DMS): 66° 17' 0.000" W

County: Salinas

Latitude (DD): 17.95000001

Longitude (DD): -66.28333298

SCAT Division: Salinas County Division 1

ESI Map: PR-62

ESI Name: SALINAS, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H3

QUAD Name: Salinas

Managed Area (if applicable):

General Location: Aguirre

CONTACT INFORMATION

Contacts: P.R. DNER Rangers Command Ctr. - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER - Guayama - (787) 864-4776/077; P.R. DNER - Guayama (Alt) - (787) 839-0337, (787) 853-4617/3569; P.R. State Historic Director - SHPO (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed mangroves, fine-grained sand beaches, sheltered mangroves, rocky shores, seagrass, mudflats and lagoons.**Wildlife:** Diving birds and wading birds.**Threaten/Endangered Species:** Brown Pelicans.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Closest boat access is via Playa de Salinas.**Collection Points:****Area Access:** boat**Spill Risk:****Response Resources:** AVAILABLE ON SITE RESOURCES: See PREPA response plan.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 3400**Boom Type:****Booming Method:** Deflection**Protection Strategy:** Deploy 3,400 ft. of diversion boom between Punta Arenas and Cayo Manta. Containment booming, skimming, offshore dispersants and the pre-application of a wetting agent should be used

Name: PUNTA SALINAS

Site ID:

B51

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 36.000" N

Longitude (DMS): 66° 17' 35.999"

County: Salinas

Latitude (DD): 17.95999999

Longitude (DD): -66.29333300

SCAT Division: Salinas County Division 1

ESI Map: PR-62

ESI Name: SALINAS, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H3

QUAD Name: Salinas

Managed Area (if applicable):

General Location: Aguirre

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER - Guayama (Alt) - (CEL) 385-8477; P.R. DNER, Guayama - (787) 864-4776/0771; P.R. DNER, Guayama (Alt) - (787) 853-4700; PREPA Aguirre - (787) 853-4700, PREPA Aguirre Alt- (787) 853-3919; P.R.State Historic Director- SHPO (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Private docks and marinas, mixed sand and gravel beach and mangroves.

Wildlife: Seabirds.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: Marina and recreational area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available via Playa de Salinas. Boat: A 25 ft. boat ramp is located at marina in Punta Salinas.

Collection Points:

Area Access: boat/helicopter/vehicle

Spill Risk:

Response Resources: Marina de Salinas, Phn. No. (787) 824-3185 or 752-8484.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1500

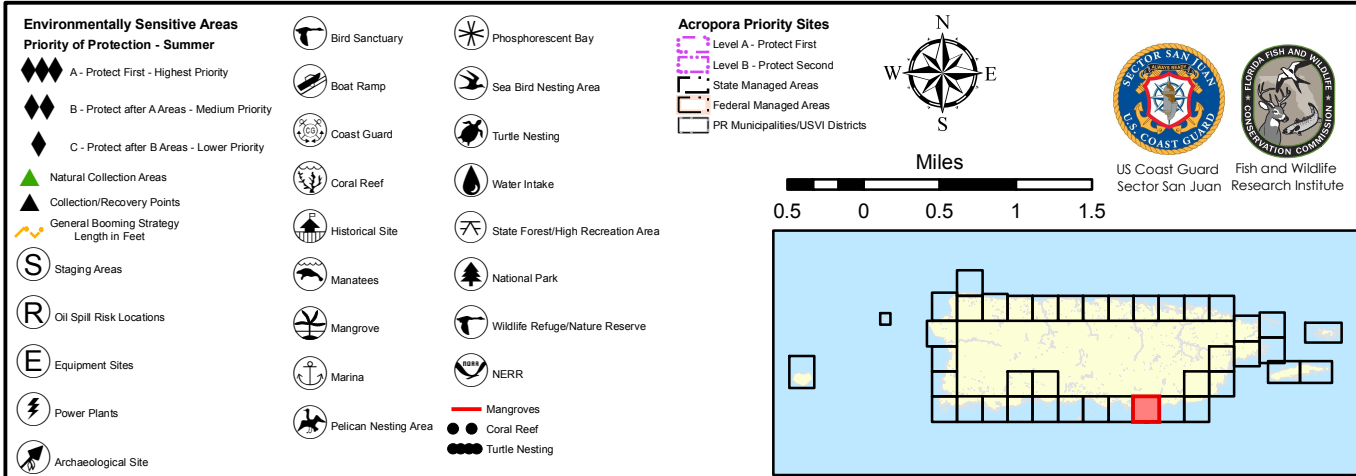
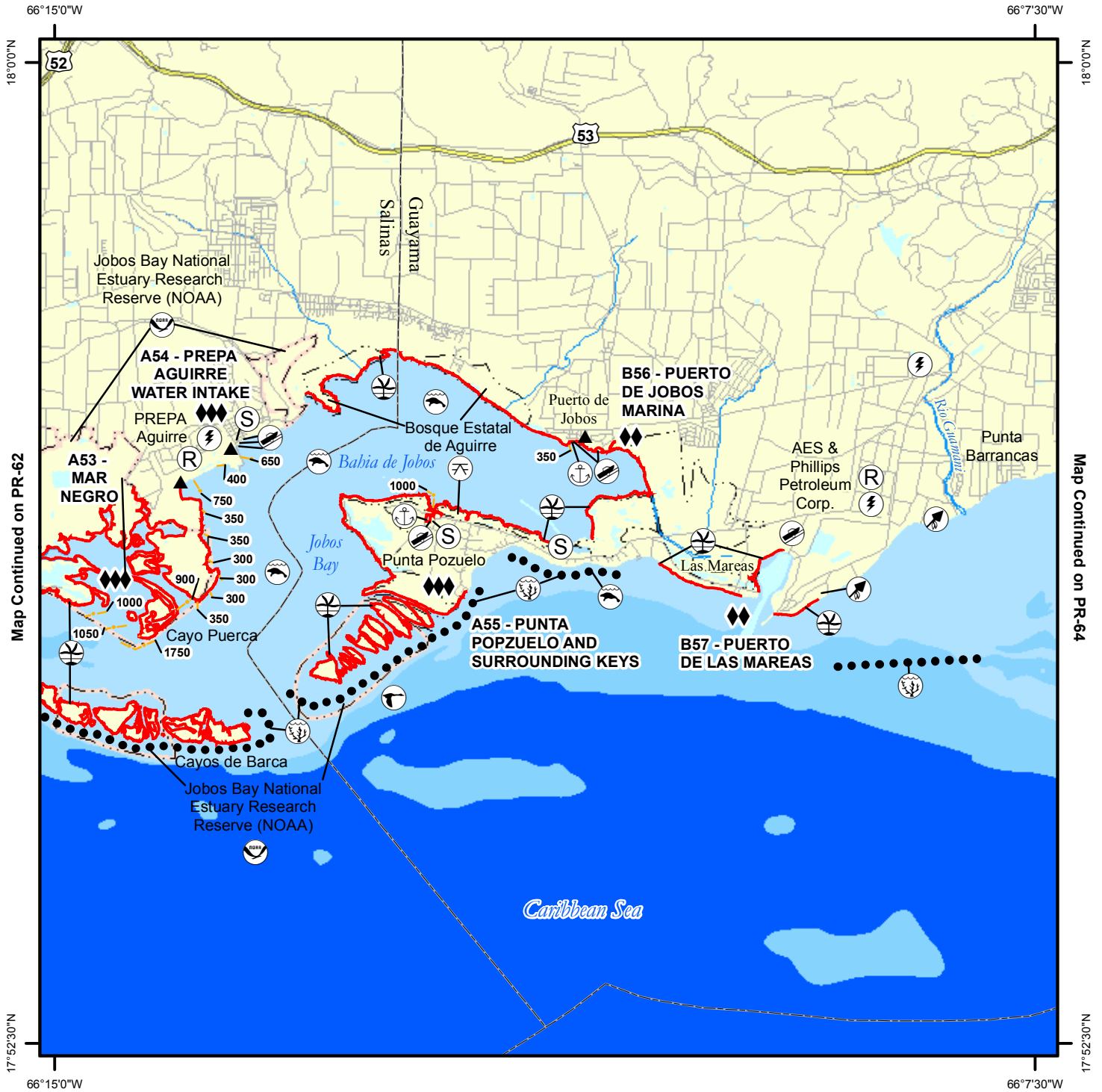
Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 1,500 ft. of diversion boom between Punta Salinas and Cayo Mata. Collect oil at Punta Salinas.



Geographic Response Plan Map: PR-63



Name: MAR NEGRO

Site ID:

A53

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 56' 0.000" N

Longitude (DMS): 66° 14' 30.001"

County: Salinas

Latitude (DD): 17.93333298

Longitude (DD): -66.24166699

SCAT Division: Salinas County Division 1

ESI Map: PR-63

ESI Name: CENTRAL AGUIRRE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H2

QUAD Name: Central Aguirre

Managed Area (if applicable): Jobos Bay National Estuarine Research Reserve

General Location: Aguirre

CONTACT INFORMATION

Contacts: NOAA - NERR Manager - (787) 864-5353; P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-3262/5353 or (787) 864-3895; P.R. DNER - Guayama - (787) 864-4776/0771; PREPA Aguirre - (787) 853-4300; P.R.State Historic- Director SHPO (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Exposed and sheltered mangroves, fine and coarse grained sandy beaches, seagrass and mudflats.

Wildlife: Diving birds, wading birds, sea turtles and West Indian Manatee.

Threaten/Endangered Species: Brown Pelican, West Indian Manatee, Hawksbill, Leatherback and Green sea turtles. Bahia de Jobos National Estuarine Research Reserve.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available through the PREPA Aguirre Steam Plant. Boat: The only access is by boat via Aguirre, Playa de Salinas.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Jobos Bay is a National Estuarine Research Reserve. (NERR). AVAILABLE ON SITE RESOURCES: See PREPA Aguirre spill plan.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 9200

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 9,200 ft. of exclusion boom from PREPA out past Punta Colchones. Collection points should be established at the west end of PREPA and at points along boom. This configuration is assuming source of discharge is from PREPA. Deploy 3,400 ft. of diversion boom between Punta Arenas and Cayo Monta. Containment booming, skimming, offshore dispersants and the pre-application of a wetting agent should be used to protect the extensive exposed mangroves in this area. Deploy wildlife control measures to protect birds.



Name: PREPA AGUIRRE WATER INTAKE

Site ID:

A54

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 0.000" N

Longitude (DMS): 66° 13' 36.001"

County: Salinas

Latitude (DD): 17.95000001

Longitude (DD): -66.22666701

SCAT Division: Salinas County Division 1

ESI Map: PR-63

ESI Name: CENTRAL AGUIRRE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H2

QUAD Name: Central Aguirre

Managed Area (if applicable):

General Location: Aguirre

CONTACT INFORMATION

Contacts: PREPA - PREPA - (787) 853-4700 or (787) 853-3919; NOAA - NERR Manager - (787) 853-4617; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30;; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. contact SHPO at the above number.

Habitat: Water intake to PREPA plant.

Wildlife: Jobos Bay National Estuarine Research Reserve.

Threaten/Endangered Species: West Indian Manatees.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle/Boat: Access is through the PREPA facility.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Jobos Bay is a National Estuarine Research Reserve (NERR). AVAILABLE ON SITE RESOURCES: See PREPA Aguirre spill plan.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 200

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 200 ft. of exclusion boom around 50 Ft. wide water intake.



Name: PUNTA POPZUELO AND SURROUNDING KEYS

Site ID:

A55

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 56' 0.000" N

Longitude (DMS): 66° 12' 0.000" W

County: Guayama

Latitude (DD): 17.93333298

Longitude (DD): -66.20000000

SCAT Division: Guayama County Division 1

ESI Map: PR-63

ESI Name: CENTRAL AGUIRRE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H2

QUAD Name: Central Aguirre

Managed Area (if applicable):

General Location: Jobos

CONTACT INFORMATION

Contacts: NOAA - NERR Manager - (787) 864-0105; P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Guayama - Oil Spills - (787) 864-5353 or (787) 864-0771; P.R. DNER - Guayama - (787) 864-4776; PREPA Aguirre - (787) 853-4700; (787) 853-4617; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Exposed and sheltered mangroves, coarse and fine grained sandy beaches and coral reefs.**Wildlife:** Manatees and sea turtles.**Threaten/Endangered Species:** West Indian Manatee and Hawksbill sea turtle.**Socio-Economic Resources:** Marinas

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Rt. 7710 off of Rt. 3. Boat: Marina at Punta Pozuela has a 20 ft. wide boat ramp.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** The P.R. Maritime Police have an office at Punta Pozuela. Jobos Bay is a National Estuarine Research Reserve (NERR).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Containment booming, skimming, offshore dispersants and the pre-application of a wetting agent should be used to protect the extensive exposed mangroves in this area. Deploy exclusion boom at the mouth of marina entrance (Punta Pozuelo). Approximate quantity of exclusion boom?

Name: PUERTO DE JOBOS MARINA

Site ID:

B56

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 0.000" N

Longitude (DMS): 66° 11' 0.000" W

County: Guayama

Latitude (DD): 17.95000001

Longitude (DD): -66.18333301

SCAT Division: Guayama County Division 1

ESI Map: PR-63

ESI Name: CENTRAL AGUIRRE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H2

QUAD Name: Central Aguirre

Managed Area (if applicable):

General Location: Jobos

CONTACT INFORMATION

Contacts: NOAA - NERR Manager - (787) 864-5353; P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-3262 /3895; P.R. DNER - Guayama - (787) 864-4776/0771; PREPA Aguirre - (787) 853-4700; (787) 853-4617; 853-3569; NOAA - Brad Benggio (206) 849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Fishing villages, private docks and a marina.**Wildlife:** Seabirds and shorebirds. Jobos Bay National Estuarine Research Reserve.**Threaten/Endangered Species:** West Indian Manatee.**Socio-Economic Resources:** Significant shallow seagrass beds by Cayo Caribe. ----- Seagrass beds in <1m.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Rt. 3 to Rt. 707. Boat: A 25 ft. wide boat ramp is located at Puerto de Jobos.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:**

Response Resources: P.R. Maritime Police have an officer at Punta Pozuela. Jobos Bay is a National Estuarine Research Reserve. (NERR)
AVAILABLE ON SITE RESOURCES: JOBOS NERR has small boats and vehicles.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 800**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 800 ft. of exclusion boom around vessel's and docks.

Name: PUERTO DE LAS MAREAS

Site ID:

B57

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 55' 54.001" N

Longitude (DMS): 66° 9' 29.999" W

County: Guayama

Latitude (DD): 17.93166698

Longitude (DD): -66.15833300

SCAT Division: Guayama County Division 1

ESI Map: PR-63

ESI Name: CENTRAL AGUIRRE, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H2

QUAD Name: Central Aguirre

Managed Area (if applicable):

General Location: Jobos

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-0105; P.R. DNER - Guayama - (787) 864-4776/0771; P.R. DNER, Guayama (Alt) - (787) 864-1515; (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Mangroves, commercial facility, riprap and rocky shores.

Wildlife: Wading birds.

Threaten/Endangered Species: Brown Pelican.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle/Boat: access is available through Phillips Petroleum (gone). The facility has a boat.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Information: Las Mareas is site of frequent groundings due to narrow channel and silting. Daylight transit restriction for vessels. AVAILABLE ON SITE RESOURCES: Phillips Petroleum gone.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3000

Boom Type:

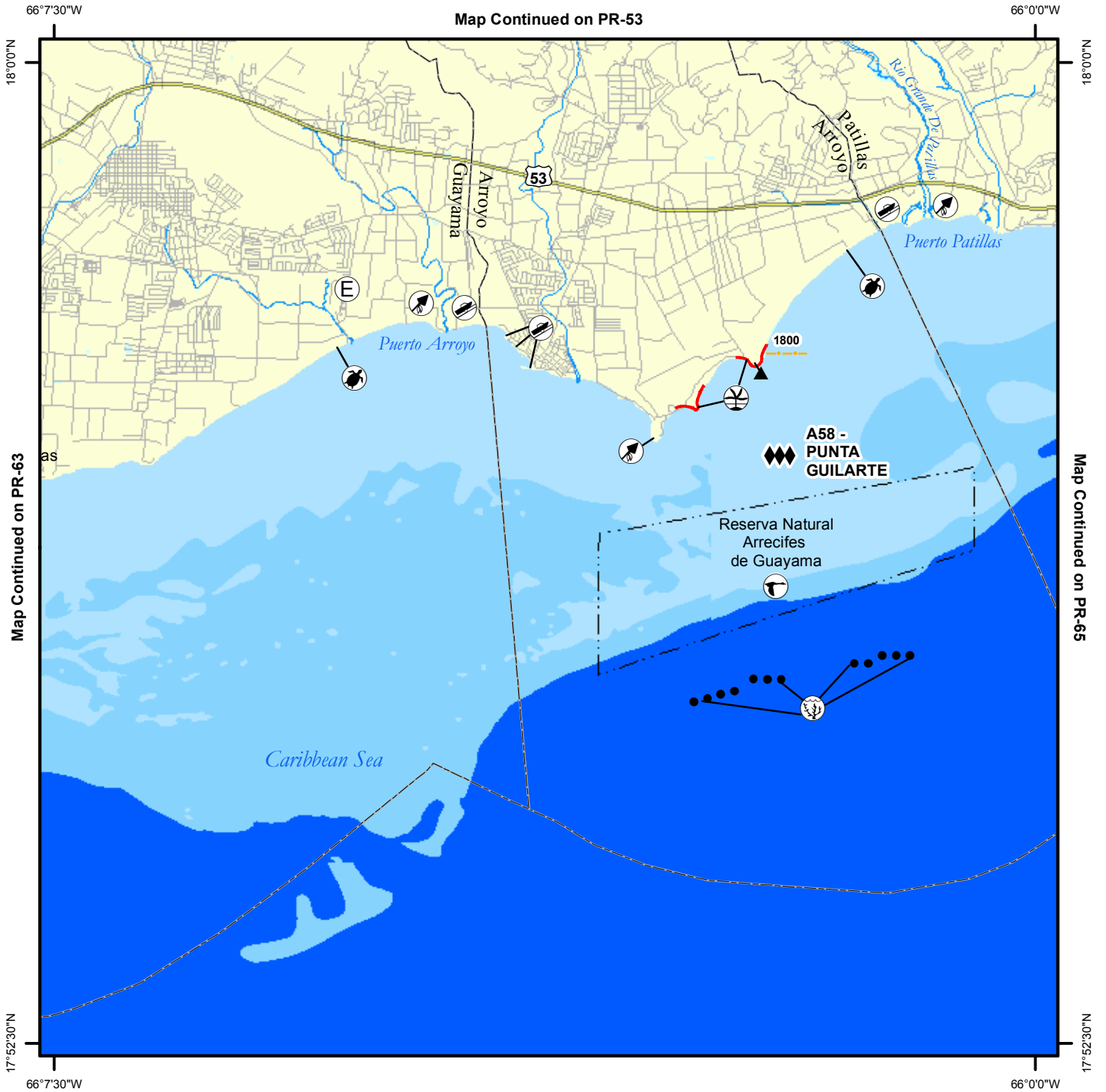
Booming Method: Protection/Exclusion

Protection Strategy: Deploy 3,000 ft. of exclusion boom in front of mangroves and channel entrance. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds.



Geographic Response Plan Map: PR-64

Map Continued on PR-53



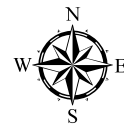
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

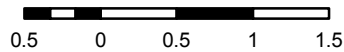
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipales/USVI Districts



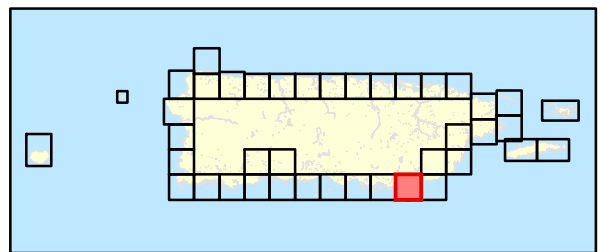
Miles



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: PUNTA GUILARTE

Site ID:

A58

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 57' 0.000" N

Longitude (DMS): 66° 2' 0.000" W

County: Arroyo

Latitude (DD): 17.95000001

Longitude (DD): -66.03333301

SCAT Division: Arroyo County Division 1

ESI Map: PR-64

ESI Name: GUAYAMA, P.R.

NOAA Chart: 25677

CHART Name: SOUTH COAST OF PUERTO RICO

USGS Quad: 17066-H1

QUAD Name: Guayama

Managed Area (if applicable):

General Location: Palmas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-3262/3895; P.R. DNER - Guayama - (787) 864-4776/0771; P.R. DNER - Guayama (Alt) - (787) 864-1515; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Archaeological sites in area. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

Habitat: Fine grained sandy beaches.

Wildlife: Sea turtles and West Indian Manatee.

Threaten/Endangered Species: Hawksbill sea turtle nesting area, West Indian Manatee.

Socio-Economic Resources: Recreational beaches.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available along the waterfront road. Boat: A 25 ft. wide boat ramp is located at Playa Patillas.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

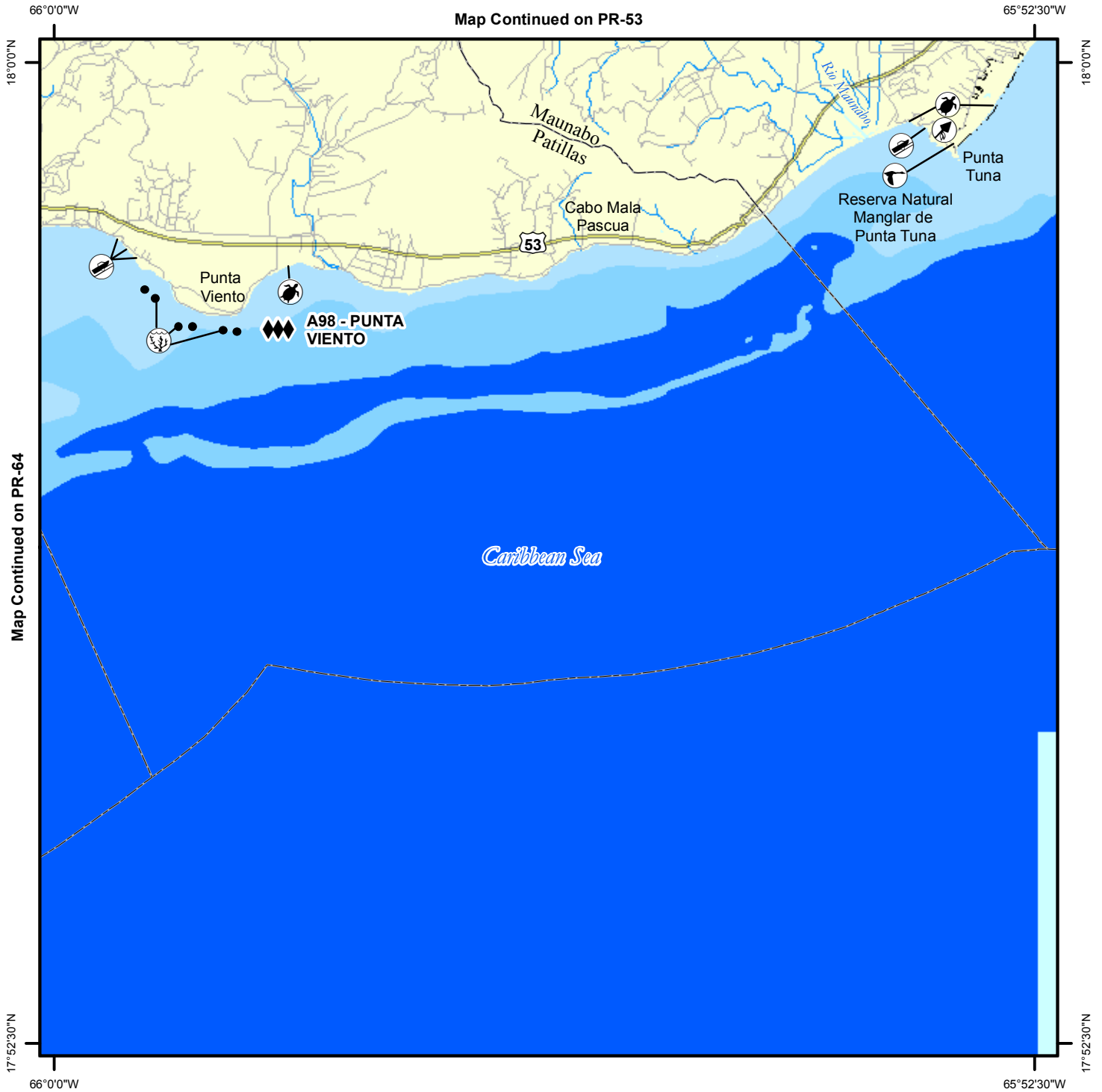
Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Conduct containment and skimming operations before oil impacts shore. Establish a collection point at Pta. Guilarte.



Geographic Response Plan Map: PR-65

Map Continued on PR-53



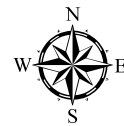
Environmentally Sensitive Areas Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🏛 Archaeological Site

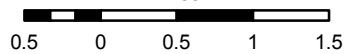
- 🦅 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏠 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦆 Pelican Nesting Area
- ☀ Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 State Forest/High Recreation Area
- 🌲 National Park
- 🦋 Wildlife Refuge/Nature Reserve
- 🌊 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



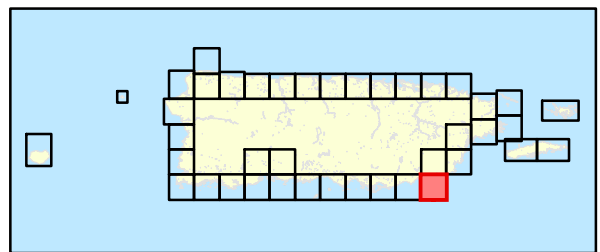
Miles



US Coast Guard Sector San Juan



Fish and Wildlife Research Institute



Name: PUNTA VIENTO

Site ID:

A98

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Punta Viento, natural wooded area on coast

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 58' 12.613" N

Longitude (DMS): 65° 58' 45.258"

County: Patillas

Latitude (DD): 17.97017033

Longitude (DD): -65.97923838

SCAT Division: Patillas Division 1

ESI Map: PR-65

ESI Name: PUNTA TUNA, P.R.

NOAA Chart: 25677

CHART Name: GUANICA LIGHT TO PUNTA TUNA LIGHT

USGS Quad: 17065-H8

QUAD Name: Punta Tuna

Managed Area (if applicable):

General Location: Bajo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Guayama - Oil Spills - (787) 864-5353 or (787) 864-3262/3895; P.R. DNER - Guayama - (787) 864-4776/0771; P.R. DNER - Guayama (Alt) - (787) 864-1515; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Mixed Sand and Gravel Beaches, Exposed Tidal Flats, Scrub-Shrub Wetlands**Habitat:** Coral Reefs, Exposed Tidal Flats, Scrub-Shrub Wetlands**Wildlife:** Pterocarpus swamp, Nursery fish, Snook, Tarpon, Blue Land Crab. Pelagic fish, Reef fish Green sea turtle, Hawksbill sea turtle, Leatherback sea turtle, Caribbean spiny lobster, Octopus, Queen Conch, Dolphin, Whales**Threaten/Endangered Species:** Green sea turtle, Hawksbill sea turtle, Leatherback sea turtle**Socio-Economic Resources:** Archaeological site in area

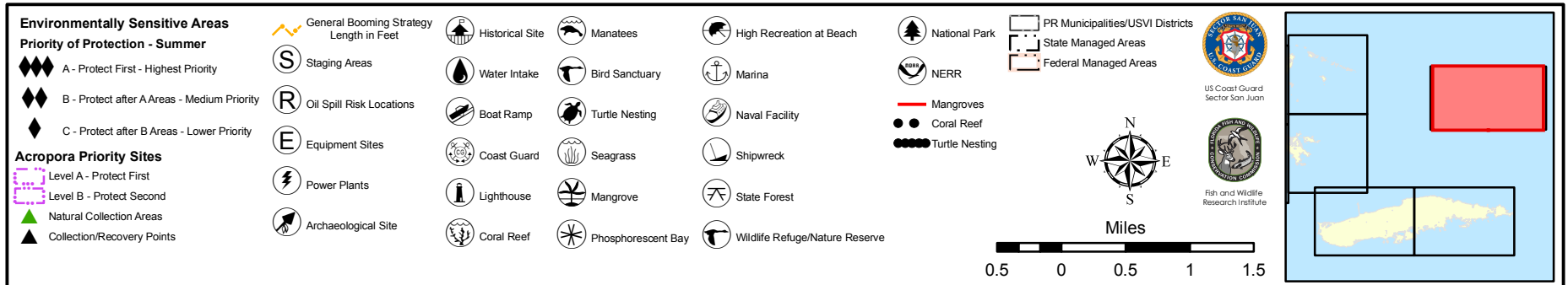
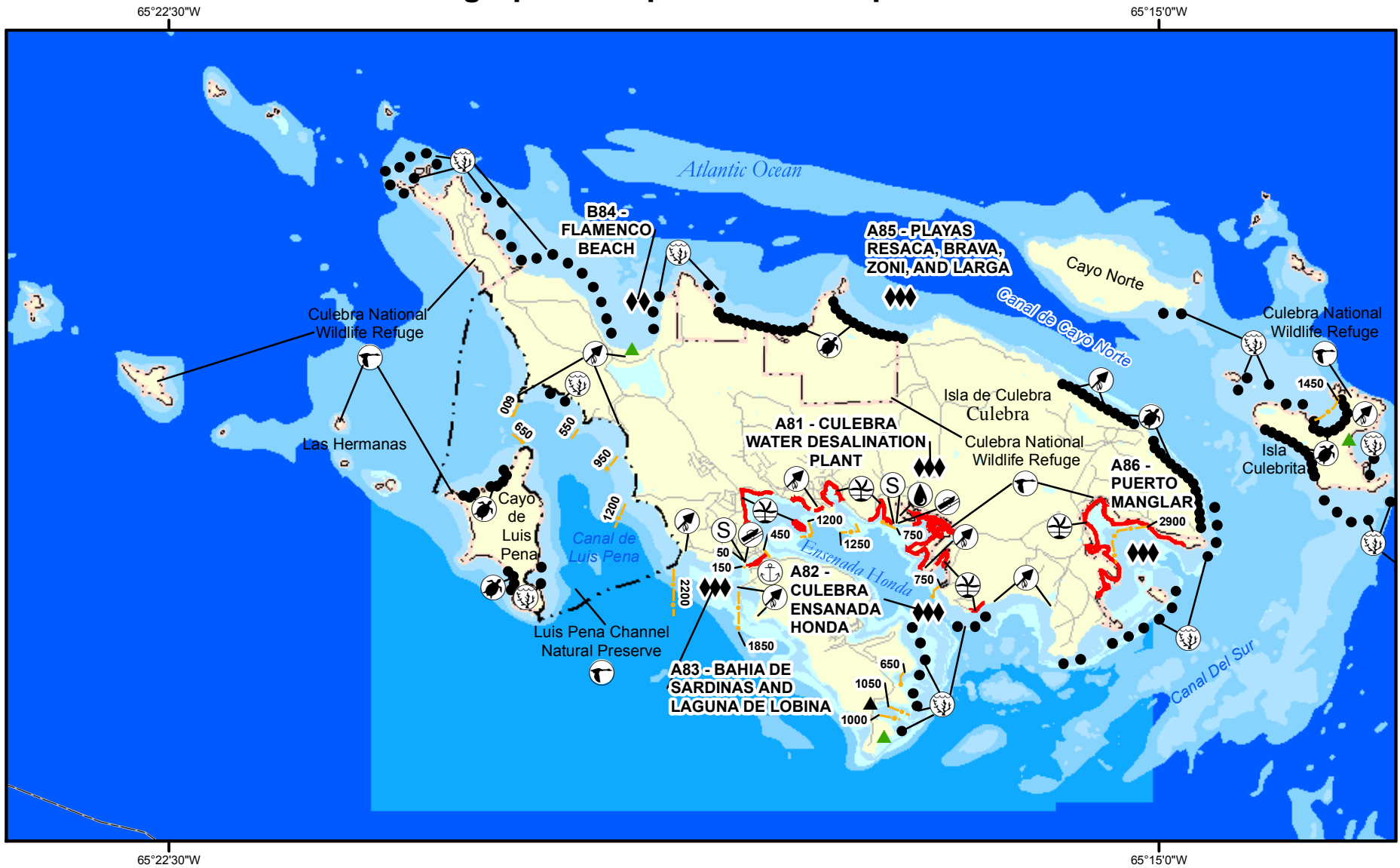
RESPONSE CONSIDERATIONS

Staging Area:**Collection Points:****Area Access:****Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:**

Geographic Response Plan Map: PR-66



Name: CULEBRA WATER DESALINATION PLANT

Site ID:

A81

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 18' 19.218" N

Longitude (DMS): 65° 17' 11.642"

County: Culebra

Latitude (DD): 18.30533834

Longitude (DD): -65.28656718

SCAT Division: Culebra County Division 1

ESI Map: PR-66

ESI Name: CULEBRA AND ADJACENT ISLANDS

NOAA Chart: 25653

CHART Name: ISLA DE CULEBRA AND APPROACHES

USGS Quad: 18065-C2

QUAD Name: Culebra

Managed Area (if applicable): Culebra Managed Flora Reserve

General Location: Fraile

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; US F&W Culebra - (787) 742-0115; P.R. DNER Culebra - (787) 742-0036; (FAX) 724-1120; Public Works - Plant Manager - (787) 742-0202; P.R. State Historic Preservation Office - Director - (787) 721-3737/30; Army Corps of Engineers - (Unexploded ordinances) - (787) 729-6874

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Water intake into cement pier.**Wildlife:** None reported.**Threaten/Endangered Species:** None reported.**Socio-Economic Resources:** Intake provides water for community's Desalination plant. Indian Archaeological site. This includes bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: The water intake is located near the DNER boat ramp. Four wheel drive is recommended throughout Culebra. Rental vehicles on the island are limited. Boat: Several boat ramps are located in Ensenada Honda.**Collection Points:****Area Access:** aircraft/boat/helicopter**Spill Risk:****Response Resources:** Aircraft: Culebra has a small airport and a helicopter pad is located on the DNER site near the desalinization plant.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 20**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 20 ft. of boom in front of the intake.

Name: CULEBRA ENSENADA HONDA

Site ID:

A82

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 17' 28.891" N

Longitude (DMS): 65° 16' 36.342"

County: Culebra

Latitude (DD): 18.29135864

Longitude (DD): -65.27676164

SCAT Division: Culebra County Division 1

ESI Map: PR-66

ESI Name: CULEBRA AND ADJACENT ISLANDS

NOAA Chart: 25653

CHART Name: ISLA DE CULEBRA AND APPROACHES

USGS Quad: 18065-C2

QUAD Name: Culebra

Managed Area (if applicable): Culebra Managed Flora Reserve

General Location: Playa Sardinas II

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Culebra - (787) 742-3880; US Fish & Wildlife Culebra - (787) 742-0115, (FAX) 742-1303; Culebra Leatherback Project - (787) 742-0036; P.R. State Historic Preservation - Director - (787) 721-3737/30; Army Corps of Engineers - (Unexploded ordinances) - (787) 729-6874

RESOURCES AT RISK INFORMATION

Shoreline Type: Exposed and sheltered rocky shore, seawalls, mixed sand and gravel beach, fill and sheltered mangrove.**Habitat:** Exposed and sheltered rocky shore, seawalls, mixed sand and gravel beach, fill and sheltered mangrove.**Wildlife:** Sea birds, wading birds and sea turtle feeding area.**Threaten/Endangered Species:** Brown Pelican and Leatherback Sea Turtles.

Socio-Economic Resources: Water Intake for desalination plant and fishing village. Very important recreation fishing resources. Archaeological site in area. This includes bone fragments, shell artifacts, and pottery shards. Contact SHPO above

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Paved and dirt roads are found around most of Ensenada Honda. Boat: Several boat ramps are in Ensenada Honda. A boat ramp is located at the DNER office near Enesenada Del Cementerio. Aircraft: Culebra has a small airport

Collection Points:**Area Access:** aircraft/boat/helicopter/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 3200**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Prevailing winds tend to keep oil out of the harbor. The best protection is to conduct containment booming and recovery operations near the mouth of the bay. Consider deploying 3,200 ft exclusion boom from Punta Colorado to the bay south of Punta Cabras. Deploy wildlife control measures to protect birds.



Name: BAHIA DE SARDINAS AND LAGUNA DE LOBINA

Site ID:

A83

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 17' 58.088" N

Longitude (DMS): 65° 18' 22.388"

County: Culebra

Latitude (DD): 18.29946886

Longitude (DD): -65.30621886

SCAT Division: Culebra County Division 1

ESI Map: PR-66

ESI Name: CULEBRA AND ADJACENT ISLANDS

NOAA Chart: 25653

CHART Name: ISLA DE CULEBRA AND APPROACHES

USGS Quad: 18065-C2

QUAD Name: Culebra

Managed Area (if applicable): Reserva Natural Canal Luis Pena

General Location: Playa Sardinas I

CONTACT INFORMATION

Contacts: P.R. DNER Ranger Corps. - Command Center - (787) 724-5700; P.R. DNER - Culebra - (787) 742-0036, (FAX) 742-1120; US Fish and Wildlife - Culebra - (787) 742-0115; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; Army Corps of Engineers - (Unexploded ordinances) - (787) 729-6874

RESOURCES AT RISK INFORMATION

Shoreline Type: Sheltered mangroves, fine grained sandy beaches, exposed and sheltered vertical rocky shores, and riprap.**Habitat:** Sheltered mangroves, fine grained sandy beaches, exposed and sheltered vertical rocky shores, and riprap.**Wildlife:** Shore birds and wading birds.**Threaten/Endangered Species:** Brown Pelican.**Socio-Economic Resources:** Fishing, commercial, and recreational area. Indian Archaeological site. Bone fragments, shell artifacts and pottery shards in the area. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Paved and dirt roads are found around most of Ensenada Honda. Boat: Several boat ramps in Ensenada Honda. A boat ramp is located at the DNER office near Ensenada Del Cementerio. Aircraft: Culebra has a small airport**Collection Points:****Area Access:** aircraft/boat/vehicle/helicopter**Spill Risk:****Response Resources:** Bahia De Sardinas is where the ferry from Fajardo moors is.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 400**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 400 ft. of exclusion boom at the end of Laguna de Labina (channel to Ens. Honda) depending on direction of threat. Due to the fact that most commercial shipping activity takes place here, also consider deployment of diversionary boom on either side of port/dock to help contain spill. Deploy wildlife control measures to protect birds.

Name: PLAYAS RESACA, BRAVA, ZONI, AND LARGA

Site ID:

A85

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 5.605" N

Longitude (DMS): 65° 17' 0.430" W

County: Culebra

Latitude (DD): 18.33489019

Longitude (DD): -65.28345276

SCAT Division: Culebra County Division 1

ESI Map: PR-66

ESI Name: CULEBRA AND ADJACENT ISLANDS

NOAA Chart: 25653

CHART Name: ISLA DE CULEBRA AND APPROACHES

USGS Quad: 18065-C2

QUAD Name: Culebra

Managed Area (if applicable): Culebra Managed Flora Reserve

General Location: San Isidro

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Culebra - (787) 742-3880; US Fish & Wildlife Culebra - (787) 742-0036, Culebra Leatherback Project - (787) 742-0057; Army Corps of Engineers - (Unexploded ordinances) - (787) 729-6874

RESOURCES AT RISK INFORMATION

Shoreline Type: Exposed vertical rocky shore, coarse grained & gravel beaches, mixed sand, gravel beach & fill, & riprap.

Habitat: Vertical rocky shore and mixed sand/gravel beach

Wildlife: Diving birds, seabirds, gulls, water fowl, Royal Tern, Sandwich Tern, Laughing Gull, American Oyster Catcher, Brown Noddy, Bridled Tern, Brown Bobby, Sooty Tern, Red Footed Bobby and Red Billed Tropic

Threaten/Endangered Species: Green, Hawksbill and Leather Back sea turtle nesting areas.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: No vehicle access to Playa Resaca. Responders will need to take 45 minute hike through woods and steep rocky terrain. Playa Brava and Larga may be accessed by four wheel drive vehicles. Continued See Protection

Collection Points:

Area Access: vehicle

Spill Risk:

Response Resources: Cleanup crews on Brava & Resaca beaches should be accompanied by a member of the Culebra Leatherback Project. A natural collection point is located on Isla Culebrita, and can only be accessed by land from the beach on Culebrita's north side.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are rarely feasible along these high energy beaches. Beach cleanup should not be delayed during sea turtle nesting or hatching periods. Transport for disposal from Playa Resaca done by helicopter at Culebra Airport Vehicle: Do not drive on beaches during turtle nesting season. Boat: Playa Resaca and Brava are high energy beaches not accessible by boat. Playa Larga may be accessible from sea by a small boat. Aircraft: Culebra has a small airport. Clean up crews on Brava & Resaca beaches should be accompanied by a member of the Culebra Leatherback Project. A natural collection point is located on Isla Culebrita, and only be accessed by land from the beach on Culberita's North side.



Name: PUERTO MANGLAR

Site ID:

A86

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 18' 11.025" N

Longitude (DMS): 65° 15' 13.799"

County: Culebra

Latitude (DD): 18.30306242

Longitude (DD): -65.25383313

SCAT Division: Culebra County Division 1

ESI Map: PR-66

ESI Name: CULEBRA AND ADJACENT ISLANDS

NOAA Chart: 25653

CHART Name: ISLA DE CULEBRA AND APPROACHES

USGS Quad: 18065-C2

QUAD Name: Culebra

Managed Area (if applicable): Culebra Managed Flora Reserve

General Location: Fraile

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER Culebra - (787) 742-0036, (FAX) 742-1120; US Fish & Wildlife, Culebra - (787) 742-0115; Culebra Leatherback Project - (787) 742-0057; Army Corps of Engineers - (Unexploded ordinances) - (787) 729-6874

RESOURCES AT RISK INFORMATION

Shoreline Type: Sheltered and exposed mangroves, mixed sand and gravel beaches and shallow reefs.**Habitat:** Mangroves, mixed sand/gravel beaches, shallow reefs.**Wildlife:** Sea birds, shore birds, diving birds, and sea turtles.**Threaten/Endangered Species:** Hawksbill, Green and Leatherback sea turtles, Brown Pelican, and cor**Socio-Economic Resources:** None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: The dirt access road requires a four wheel drive vehicle.**Collection Points:****Area Access:** Vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 3000**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Puerto Manglar has a history of being impacted from down island spills. Deploy two 1,500 ft. exclusion booms. One extending from Cabeza de Perro to the southwest and one from Pta. Almodovan to the northeast. Consider using offshore dispersants and the pre-application of a wetting-agent such as Corexit 9580 on the mangroves.



Name: FLAMENCO BEACH

Site ID:

B84

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: National Wildlife Refuge

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 3.880" N

Longitude (DMS): 65° 18' 59.627"

County: Culebra

Latitude (DD): 18.33441105

Longitude (DD): -65.31656303

SCAT Division: Culebra County Division 1

ESI Map: PR-66

ESI Name: CULEBRA AND ADJACENT ISLANDS

NOAA Chart: 25653

CHART Name: ISLA DE CULEBRA AND APPROACHES

USGS Quad: 18065-C2

QUAD Name: Culebra

Managed Area (if applicable): Culebra Managed Flora Reserve

General Location: Flamenco

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Culebra - (787) 742-0036; US Fish & Wildlife; Culebra - (787) 742-0115, Culebra Leatherback Project - (787) 742-0057; P.R. State Historic Preservation Office (SHPO) - Director - (787) 721-3737/30; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Mixed sand/gravel beach, coarse grained sand beaches, sheltered rocky shores, sea walls, exposed vertical rocky shore, gravel beach and rip-rap. Beach is normally low energy.

Habitat: Rock/Sand beach, Coral Reef

Wildlife: Sea turtles, shore birds, diving birds, seabirds, gulls, water fowl, American Oyster Catcher, Northern Pintail, Royal Tern, Sandwich Tern, Laughing Gull, Sooty Tern, White Tailed Tropic Bird, Red Billed Tropic Bird, Common Tern, Bridled Tern, Brown Noddy

Threaten/Endangered Species: Green, Hawksbill and Leather Back turtles.

Socio-Economic Resources: Public beach and camping area

RESPONSE CONSIDERATIONS

Staging Area: Staging: Resources may be staged in parking lot at beach. Vehicle: Access is available along road that runs along Beach. Vehicle: Access is available along road that runs along beach. Aircraft: Culebra has a small airport.

Collection Points:

Area Access: aircraft/boat/vehicle/helicopter

Spill Risk:

Response Resources: Public beach and camping area. Potential for UXO in the nearshore areas. Public access to this beach is critical to the economy of Culebra. Boat: Small boats may access the beach from sea, but operators must know area.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3000

Boom Type:

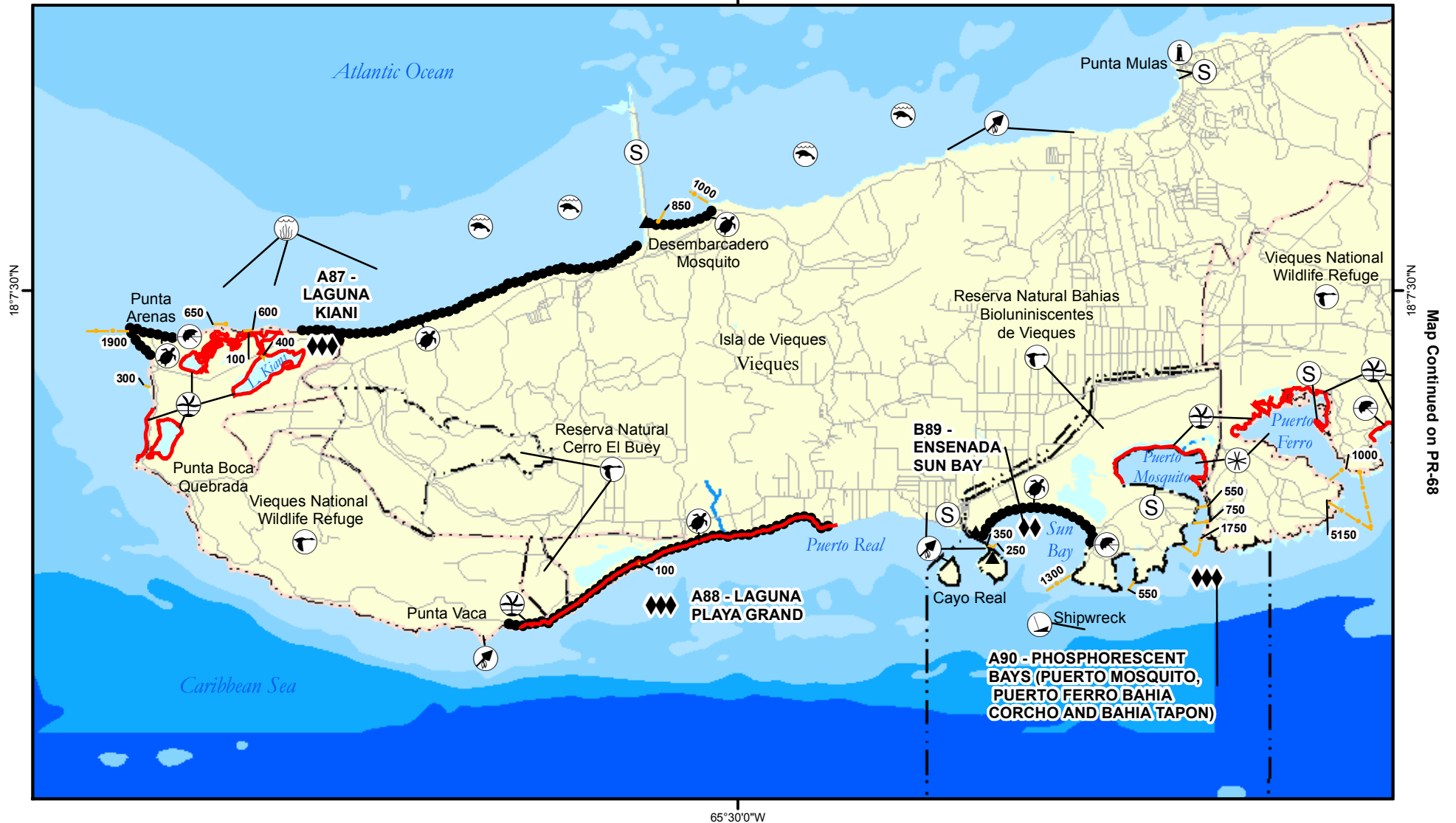
Booming Method:

Protection Strategy: Deploy 3,000 ft. of cascading boom along the beach. Deploy wildlife control measures to protect birds. This area should be given a higher priority on holiday weekends when the beach fills up with campers from main Island of Puerto Rico. Potential for UXO in the nearshore areas. Public access to this beach is critical to the economy of Culebra.



Geographic Response Plan Map: PR-67

65°30'0"W



Map Continued on PR-68

65°30'0"W

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points

General Booming Strategy
Length in Feet

- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🔦 Archaeological Site

Historical Site

- 💧 Water Intake
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🏠 Lighthouse
- 🐠 Coral Reef

Manatees

- 🦅 Bird Sanctuary
- 🐢 Turtle Nesting
- 🌿 Seagrass
- 🌿 Mangrove
- 🌿 Phosphorescent Bay

High Recreation at Beach

- ⚓ Marina
- 🚢 Naval Facility
- 🚢 Shipwreck
- 🌳 State Forest
- 🦋 Wildlife Refuge/Nature Reserve

National Park

- 🌳 NERR
- 🌳 Mangroves
- 🌳 Coral Reef
- 🌳 Turtle Nesting

PR Municipalities/USVI Districts
State Managed Areas
Federal Managed Areas



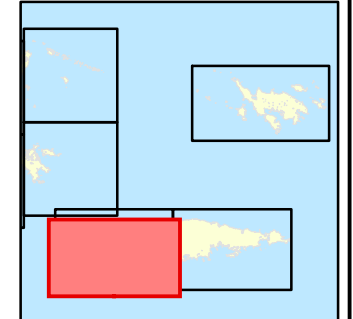
Miles
0.5 0 0.5 1 1.5



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: LAGUNA KIANI

Site ID:

A87

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 7' 23.303" N

Longitude (DMS): 65° 34' 4.482" W

County: Vieques

Latitude (DD): 18.12313974

Longitude (DD): -65.56791179

SCAT Division: Vieques County Division 1

ESI Map: PR-67

ESI Name: ISLA DE VIEQUES, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-A3

QUAD Name: Vieques

Managed Area (if applicable):

General Location: Punta Arenas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Vieques - (787) 742-8683; U.S. Fish and Wildlife Refuge Manager, Vieques NWR, 787 741-2138, 787 741-0659; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Sheltered mangroves, and fine grained sandy beaches.**Habitat:** Sheltered mangroves, and fine grained sandy beaches.**Wildlife:** Manatees, waterfowl, wading birds, shore birds, and sea turtle nesting area to the east and west of the inlet**Threaten/Endangered Species:** Brown Pelican and West Indian Manatee.**Socio-Economic Resources:** High recreational beaches

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: The dirt access roads require four wheel drive vehicles. Aircraft: The Navy has a small abandoned airstrip near the jetty.**Collection Points:****Area Access:** aircraft/boat/vehicle/helicopter**Spill Risk:****Response Resources:** Security of response equipment is needed throughout Vieques. This was Navy property and is currently managed by the US Fish and Wildlife Service.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1000**Boom Type:****Booming Method:** Deflection, Protection/Exclusion

Protection Strategy: Deploy 600 ft diversion boom at the east end of the mangroves. Deploy 400 ft. of exclusion boom across the entrances into the lagoon. Rotary currents in the area cause oil coming from the south to impact Vieques' northwestern shore. Considering using offshore dispersants and the pre-application of a wetting agent such as Corexit 9580 on the mangroves. Deploy wildlife control measures to protect birds.



Name: LAGUNA PLAYA GRANDE

Site ID:

A88

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 5' 4.098" N

Longitude (DMS): 65° 30' 38.580"

County: Vieques

Latitude (DD): 18.08447175

Longitude (DD): -65.51071654

SCAT Division: Vieques County Division 1

ESI Map: PR-67

ESI Name: ISLA DE VIEQUES, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-A3

QUAD Name: Vieques

Managed Area (if applicable):

General Location: Llave

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Vieques - (787) 742-8683; P.R. State Historical Preservation Office (SHPO) - Director - (787) 721-3737/30; U.S. Fish and Wildlife; Refuge Manager, Vieques NWR, 787 741-2138, 787 741-0659; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Sheltered mangroves and fine grained sandy beaches.**Wildlife:** Waterfowl, wading birds, sea birds, shore birds, and sea turtle nesting beaches to the east and west of the lagoons inlet.**Threaten/Endangered Species:** Brown Pelican and West Indian Manatee.

Socio-Economic Resources: Sea turtle nesting beaches are located to the East of the inlet. Archaeological sites in area. Indian Archaeological site. Bone fragments, shell artifacts and pottery shards. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Dirt roads requiring four wheel drive vehicles. The bridge at the lagoon opening is damaged and not passable by vehicles. Boat: No boat access from land. Use of local fisherman are best for navigating in near-shore waters.

Collection Points:**Area Access:** vehicle/helicopter/aircraft**Spill Risk:****Response Resources:** Security of response equipment is needed throughout Vieques. Vieques has a commercial airport.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 600**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Construct a dam, or deploy 600 ft. of exclusion boom across the channel leading into the lagoon. The beach is normally a high energy surf area.



Name: PHOSPHORESCENT BAYS (PUERTO MOSQUITO, PUERTO FERRO BAHIA CORC

Site ID:

A90

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 5' 22.937" N

Longitude (DMS): 65° 26' 25.245"

County: Vieques

Latitude (DD): 18.08970465

Longitude (DD): -65.44034584

SCAT Division: Vieques County Division 1

ESI Map: PR-67

ESI Name: ISLA DE VIEQUES, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

USGS Quad: 18065-A3

QUAD Name: Vieques

Managed Area (if applicable):

General Location: Puerto Ferro

CONTACT INFORMATION

Contacts: P.R. DNER - Command Center - (787) 724-5700; P.R. DNER - Vieques - Management Official - (787) 742-8683; Refuge Manager - U.S. Fish and Wildlife; Vieques NWR - 787 741-2138, 787 741-0659; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine and coarse grained sandy beaches, gravel beaches, exposed vertical rocky shores and seawalls, riprap, sheltered mangroves and sheltered rocky shores.

Habitat: Fine and coarse grained sandy beaches, gravel beaches, exposed vertical rocky shores and seawalls, riprap, sheltered mangroves and sheltered rocky shores.

Wildlife: Sea turtles, wading birds, water fowl, shore birds, manatee, phosphorescent bays, Bahama duck, Clapper Rail, Black-Necked Stilts, Greater and Lesser Yellow Legs and Black-Bellied Plovers.

Threaten/Endangered Species: Green, Hawksbill and Leatherback turtles, West Indian Manatee and Brown Pelican.

Socio-Economic Resources: Bioluminescent bays, high recreation beaches

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Rt. 997. A sandy road runs along the waterfront. Boat: Use local fishermen. Aircraft: U.S. Navy's Airport.

Collection Points:

Area Access: boat/helicopter/vehicle

Spill Risk:

Response Resources: Security of response equipment is needed throughout Vieques. The Bahia Mosquito Bay is a DNER Natural Reserve.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 8000

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy deflection boom, barrier boom and collection booming via land across the mouth of Mosquito and Ferrero Bays (each bay will need approx. 4,000 ft. of boom) and across Bahia Corcho and Bahia Tapon (each bay will need approx. 2,000 ft of boom). Consider the use of dispersants before oil impacts shore.



Name: ENSENADA SUN BAY

Site ID:

B89

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 5' 35.999" N

Longitude (DMS): 65° 27' 42.001"

County: Vieques

Latitude (DD): 18.09333299

Longitude (DD): -65.46166698

SCAT Division: Vieques County Division 1

ESI Map: PR-67

ESI Name: ISLA DE VIEQUES, P.R.

NOAA Chart: 25663

CHART Name: PASAJE DE SAN JUAN TO PUERTO DE HUMACAO AND WESTERN PART OF ISLA DE VIEQUES

USGS Quad: 18065-A3

QUAD Name: Vieques

Managed Area (if applicable):

General Location: Puerto Real

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; Dept. of Recreation - Vieques - (787) 721-2800; P.R. DNER - Vieques - (787) 721-2800; P.R. State Historical Preservation Office (SHPO)- Director - (787) 721-3737/30; U.S. Fish and Wildlife, Refuge Manager, Vieques NWR, 787 741-2138, 787 741-0659; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine grained beaches, sandy beaches and gravel beaches.**Habitat:** Fine grained beaches, sandy beaches and gravel beaches.**Wildlife:** Shore birds and sea turtle nesting beach.**Threaten/Endangered Species:** Sea turtles, West Indian Manatee and Brown Pelican.**Socio-Economic Resources:** Beaches are heavily used recreation areas. Indian Archaeological site on western side of bay and on Cayo Real. Bone fragments, shell artifacts and pottery shards in area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Dirt roads allowing access of heavy equipment. Four wheel drive recommended. Boat: Shallow draft small boat access is possible over water. Boats may be easily beached on the sandy shore.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Security of response equipment is needed throughout Vieques. This is a seasonal recreational beach which receives heavy use during summer holiday weekends. The PR DNER field office is located near the western end of beach. No pollution equipment on site.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2400**Boom Type:****Booming Method:** Containment/Deflection**Protection Strategy:** The western side of the beach is a natural collection point. Deploy 2,000 ft. diversion boom along the beach with a 400 ft. collection boom placed on the western end of the beach.

Geographic Response Plan Map: PR-68

65°22'30"W

Map Continued on PR-67
18°7'30"N



18°7'30"N

65°22'30"W

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points

General Booming Strategy
Length in Feet

- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants
- 🔦 Archaeological Site



Historical Site



Water Intake



Boat Ramp



Coast Guard



Lighthouse



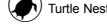
Coral Reef



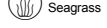
Manatees



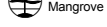
Bird Sanctuary



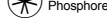
Turtle Nesting



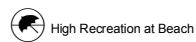
Seagrass



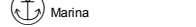
Mangrove



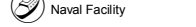
Phosphorescent Bay



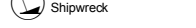
High Recreation at Beach



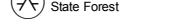
Marina



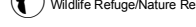
Naval Facility



Shipwreck



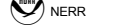
State Forest



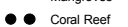
Wildlife Refuge/Nature Reserve



National Park



NERR



Mangroves



Coral Reef

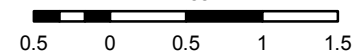


Turtle Nesting

- PR Municipalities/USVI Districts
- State Managed Areas
- Federal Managed Areas



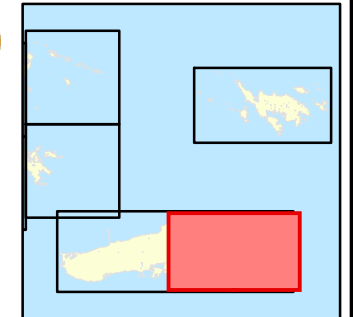
Miles



US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Name: ENSENADA HONDA MANGROVES

Site ID:

A91

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 7' 4.711" N

Longitude (DMS): 65° 21' 16.013"

County: Vieques

Latitude (DD): 18.11797522

Longitude (DD): -65.35444794

SCAT Division: Vieques County Division 1

ESI Map: PR-68

ESI Name: ISLA DE VIEQUES, P.R.

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

USGS Quad: 18065-A3

QUAD Name: Vieques

Managed Area (if applicable):

General Location: Puerto Diablo

CONTACT INFORMATION

Contacts: P.R. DNER - Command Center - (787) 724-5700; P.R. DNER - Vieques - (787) 741-8198; U.S. Fish and Wildlife - Refuge Manager, Vieques NWR, 787 741-2138, 787 741-0659; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Exposed vertical rocky shores and seawalls, sheltered mangrove, coarse-grained sandy beaches, gravel beach and riprap, mixed sand and gravel beach and fill and fine grained sandy beaches.

Habitat: Exposed vertical rocky shores and seawalls, sheltered mangrove, coarse-grained sandy beaches, gravel beach and riprap, mixed sand and gravel beach and fill and fine grained sandy beaches.

Wildlife: Sea turtles.

Threaten/Endangered Species: Green, Hawksbill and Leatherback turtles.

Socio-Economic Resources: Phosphorescent bays

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Easy access available on western end of beach. Boat: Small boat access is available.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Security of response equipment is needed throughout Vieques. Report all actual/potential munitions and explosives of concern (MECs) to Navy EOD Liaison.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 4500

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 3,500 ft of diversion boom to keep oil out of mangroves. Consider using offshore dispersants and the pre-application of a wetting agent such as Corexit 9580 on the mangroves. Use beach areas as a collection point. Oil snare should also be considered along mangroves. Deploy exclusion boom at entrance to Puerto Ferro



Name: EAST TIP OF VIEQUES AND CONEJO ISLAND

Site ID:

A92

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Special Planning Area

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 7' 37.393" N

Longitude (DMS): 65° 17' 29.013"

County: Vieques

Latitude (DD): 18.12705350

Longitude (DD): -65.29139243

SCAT Division: Vieques County Division 1

ESI Map: PR-68

ESI Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

NOAA Chart: 25650

CHART Name: VIRGIN PASSAGE AND SONDA DE VIEQUES

USGS Quad: 18065-A3

QUAD Name: Vieques

Managed Area (if applicable):

General Location: Puerto Diablo

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700; P.R. DNER - Vieques - (787) 741-8198; U.S. Fish and Wildlife - Refuge Manager - Vieques NWR - 787 741-2138, 787 741-0659; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Exposed vertical rocky shores and seawalls, fine grained sand beaches, coarse grained sand beaches, exposed mangroves, gravel beach and riprap.

Wildlife: Sea turtles, diving birds and manatee.

Threaten/Endangered Species: Brown Pelican, Green Hawksbill and Leatherback turtles and West Indian Manatee.

Socio-Economic Resources: Note: Consult with US Fish and Wildlife/US Navy representatives before responding as there are considerable amounts of unexploded ordnance in this area.

RESPONSE CONSIDERATIONS

Staging Area: Access is only available with Navy representative due to unexploded ordnance in area.

Collection Points:

Area Access: vehicle

Spill Risk:

Response Resources: Area was a range for Naval gunnery exercises. Vessel access must be coordinated through U.S. Fish and Wildlife Service. Report all actual/potential munitions + explosives of concern (MECs) to Navy EOD Liaison. Rental vehicles limited in Vieques.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: This is a high energy and rocky shoreline which prevents protection by existing coastal or inshore methods.



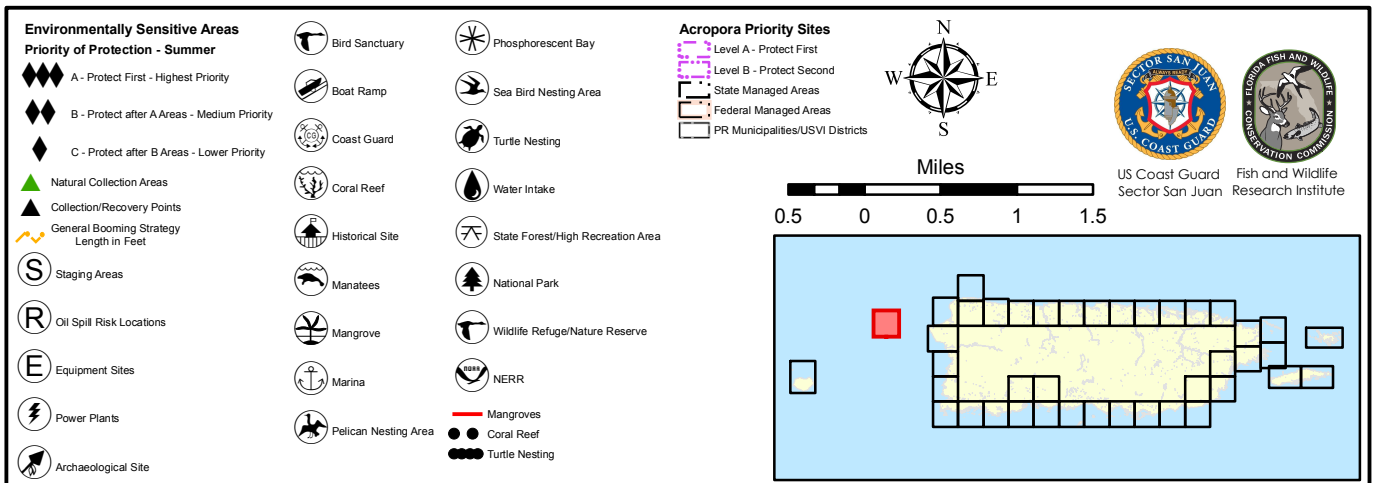
Geographic Response Plan Map: PR-69

67°30'0"W

18°22'30"N

18°22'30"N

67°30'0"W



Name: DESECHEO ISLAND

Site ID:

A19

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 24' 0.000" N

Longitude (DMS): 67° 29' 0.000" W

County: Mayagüez

Latitude (DD): 18.39999999

Longitude (DD): -67.48333300

SCAT Division: Mayagüez County Division 2

ESI Map: PR-69

ESI Name: ISLA DESECHEO, P.R.

NOAA Chart: 25671

CHART Name: WEST COAST OF PUERTO RICO

USGS Quad:

QUAD Name:

Managed Area (if applicable): Desecheo National Wildlife Refuge (Refugio Nacional de V

General Location: Sabanetas

CONTACT INFORMATION

Contacts: P.R. DNER - Emerg. Coord. - (787) 724-5700, Felix Lopez (787) 851-7297 x226 CELL (787) 510-5208; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Exposed rocky platforms, gravel beaches and coral reefs.

Wildlife: Sea birds, Brown Booby, Red Footed Booby, Bridled terns, Magnificent frigate, Humpback Whale migration (December-March) and Desecheo National Refuge.

Threaten/Endangered Species: Brown pelican.

Socio-Economic Resources:

RESPONSE CONSIDERATIONS

Staging Area: Boat: Boat access only.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources: None reported. CULTURAL R

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

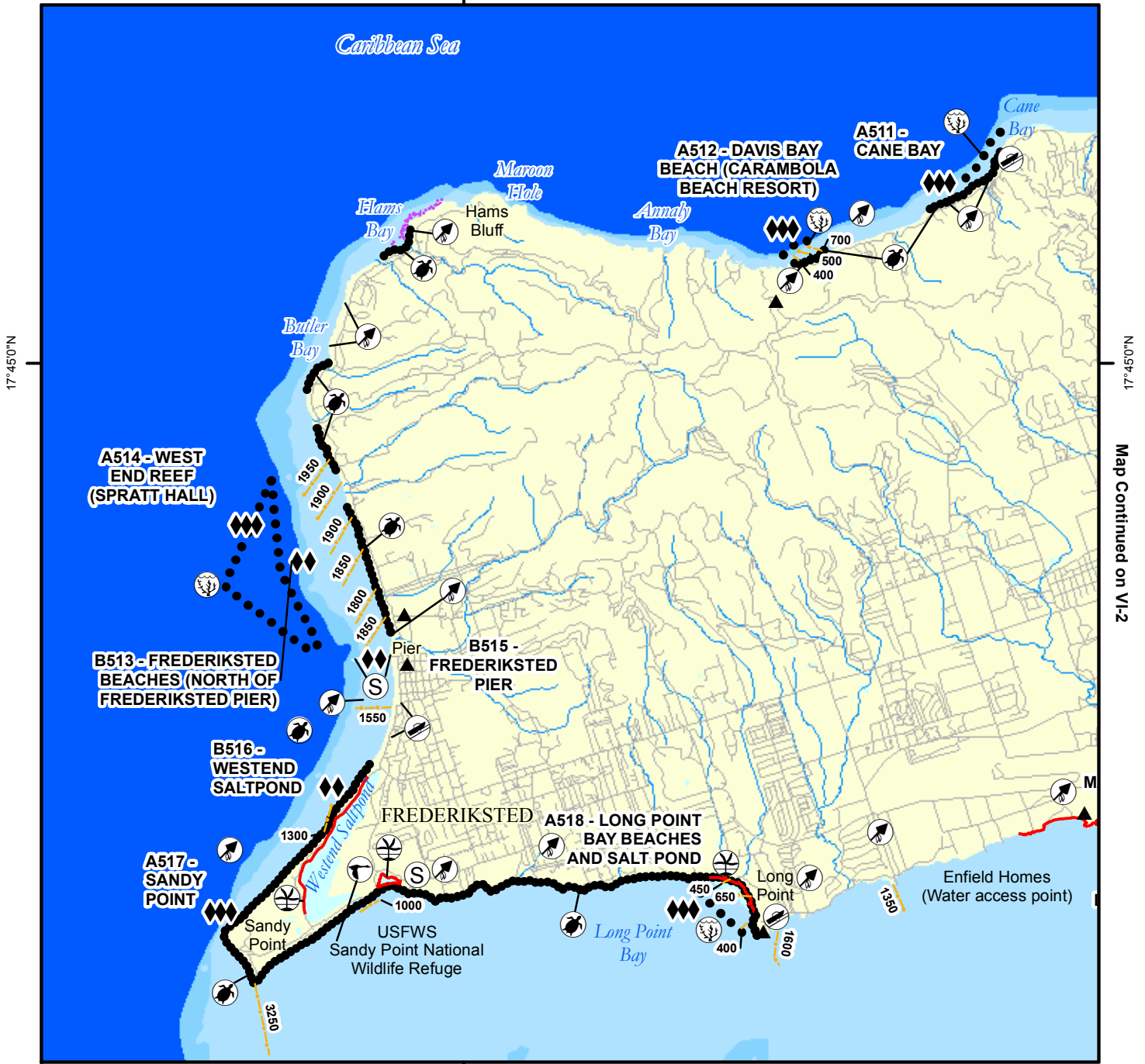
Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible due to the sheer cliffs surrounding the island and the high energy surf zone.



Geographic Response Plan Map: VI-1

64°52'30"W



Map Continued on VI-1S

64°52'30"W

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants

- 🗺 Archaeological Site
- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🐠 Pelican Nesting Area
- 🌊 Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 Wildlife Refuge/Nature Reserve
- 🌳 National Park
- 🌳 NERR
- 🌳 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



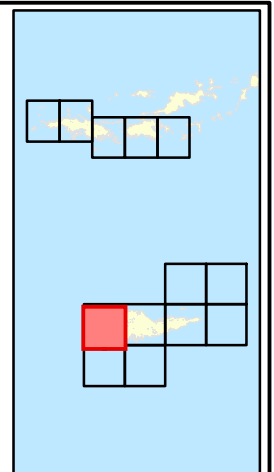
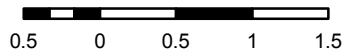
US Coast Guard
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Miles



Map Continued on VI-2

Name: CANE BAY

Site ID:

A511

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 46' 20.242" N

Longitude (DMS): 64° 49' 2.659" W

County: St. Croix

Latitude (DD): 17.77228939

Longitude (DD): -64.81740524

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G7

QUAD Name: Baron Bluff

Managed Area (if applicable): St. Croix Coral Reef System Area of Particular Concern

General Location: Northcentral

CONTACT INFORMATION

Contacts: V.I. DPNR -Commissioner- (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605; Contact shoreline stakeholders; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beach

Habitat: Fine to medium grained sandy beach, coral reef. Acropora habitat.

Wildlife: Sea turtle nesting beaches, fishery and feeding seabirds, Acropora, Elkhorn coral.

Threaten/Endangered Species: Leatherback, Hawksbill and Green sea turtles, Brown Pelicans and Acropora, Elkhorn Coral .

Socio-Economic Resources: Recreational area (beach and diving area). Hotel + restaurants + private residences and salt water intake for hotels. High probability of encountering pre-historic resources in the entire Cane Bay area. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Route 69 to Northshore Road (Rt. 80), or take Route 73 (Belvedere Rd) to Route 80. Carombola. Boat: Use Christiansted Harbor or Salt River marina. Trailerable boats at Cane Bay.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Consider diversion booming when weather conditions permit.



Name: DAVIS BAY BEACH (CARAMBOLA BEACH RESORT)

Site ID:

A512

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 46' 0.001" N

Longitude (DMS): 64° 50' 12.001"

County: St. Croix

Latitude (DD): 17.76666700

Longitude (DD): -64.83666701

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G7

QUAD Name: Baron Bluff

Managed Area (if applicable):

General Location: Northwest

CONTACT INFORMATION

Contacts: V.I. DPNR - Commissioner- (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605; Carambola Beach Resort - (340) 778-3800, (FAX) 718-1682; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beach**Habitat:** Fine to medium grained sandy beach, coral reef. Acropora, Elkhorn and Staghorn coral.**Wildlife:** Sea turtle nesting beaches, fishery and feeding seabirds, Acropora - Elkhorn and Staghorn**Threaten/Endangered Species:** Leatherback, Hawksbill and Green Sea Turtles and Brown Pelicans, Acropora - Elkhorn and Staghorn**Socio-Economic Resources:** Recreational beach, commercial hotel, water intake and discharge off beach. High probability of encountering prehistoric resources in the marked areas. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Go north on Route 69 and west on Route 80, Prosperity road to Carambola, Davis Bay on property. Boat: Christiansted Harbor, or Salt River marina, are the closest developed access areas. Small trailerable boats may use the boat ramp at Cane Bay.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Recreational beach, commercial hotel, water intake and discharge off beach.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2400**Boom Type:****Booming Method:** Deflection**Protection Strategy:** Consider deployment of deflection booming along beach.

Name: WEST END REEF (SPRATT HALL)

Site ID:

A514

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 43' 49.150" N

Longitude (DMS): 64° 54' 8.976" W

County: St. Croix

Latitude (DD): 17.73031933

Longitude (DD): -64.90249346

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F8

QUAD Name: Frederiksted

Managed Area (if applicable):

General Location: Northwest

CONTACT INFORMATION

Contacts: V.I. DPNR - Commissioner- (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605; TNC - Jeanne Brown - Recreational beaches; DPNR - Jen Valiulis - Swimming beaches; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Sensitive reef habitat, Acropora**Habitat:** Sensitive reef habitat, Acropora**Wildlife:** Reef inhabitants, Acropora (Elkhorn and Staghorn Coral)**Threaten/Endangered Species:** Foraging Green, Leather Back and Hawksbill turtles, Acropora.

Socio-Economic Resources: Recreational diving area, swimmable beaches, commercial businesses. High probability of encountering historical resources in the marked areas. Contact SHPO. Recreational diving area, swimmable beaches, commercial businesses

RESPONSE CONSIDERATIONS

Staging Area: Boat: Use facilities at Frederiksted, Hovensa, MSRC, NRC. Helicopter: Baseball Stadium.**Collection Points:****Area Access:** boat/vehicle/helicopter**Spill Risk:****Response Resources:** VING Full Hazmat team at north of Spratt Hall. Cruzan Dwers Inc. commercial boat and dive GPS.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Nearshore protection strategies are not feasible in the reef area. Conduct containment booming and open water recovery before the reef is impacted. Dispersant use should be considered. Deep water offshore.



Name: LONG POINT BAY BEACHES AND SALT POND

Site ID:

A518

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 41' 0.000" N

Longitude (DMS): 64° 50' 48.001"

County: St. Croix

Latitude (DD): 17.68333301

Longitude (DD): -64.84666698

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F7

QUAD Name: Long Point

Managed Area (if applicable):

General Location: Southwest

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537;

RESOURCES AT RISK INFORMATION

Shoreline Type: Course grained beach, shallow salt pond with Black Mangroves across a small opening shallow soft bottom coral reef, deep reef and seagrass beds in the bay.**Habitat:** Course grained beach, shallow salt pond with Black Mangroves across a small opening shallow soft bottom coral reef, deep reef and seagrass beds in the bay.**Wildlife:** Herons, Egrets, shorebirds, sea turtles and fishery.**Threaten/Endangered Species:** Leatherback, Hawksbill and Green sea turtles, Brown Pelicans, Feeding and nesting Least Terns from April to Sept., Great-blue Heron, Great Egret, Snowy Egret, Black-crowned Night Heron, White-cheeked Pintail and Fisherman Bat.**Socio-Economic Resources:** Private residences near shoreline. Potential archaeological resources.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Melvin Evans Highway (Rt. 66) to 667 Carlton and go south. Use secondary roads along shoreline. Boat: Frederiksted pier is the closest commercial vessel facility. Hovensa and old Molasses dock ramp.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Two freshwater guts empty into pond.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 3000**Boom Type:****Booming Method:** Deflection**Protection Strategy:** The beach is naturally protected from the prevailing easterly winds. Consider deploying 3,000 ft. of diversion boom along the beach. If the marsh is breached and subject to tidal influences construct a berm across the opening. Beach is eroding, protecting salt pond is important.

Name: FREDERIKSTED BEACHES (NORTH OF FREDERIKSTED PIER)

Site ID:

B513

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Historic Site Area of Particular Concern, Public Beaches, swimming beaches

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 43' 33.206" N

Longitude (DMS): 64° 53' 43.594"

County: St. Croix

Latitude (DD): 17.72589063

Longitude (DD): -64.89544282

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F8

QUAD Name: Frederiksted

Managed Area (if applicable):

General Location: Northwest

CONTACT INFORMATION

Contacts: V.I. DPNR - Commissioner- (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605; TNC - Jeanne Brown - Recreational beaches; DPNR - Jen Valiulis - Swimming beaches; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grain sandy beach, freshwater wetland, and La Grange Ghut**Habitat:** Fine to medium grain sandy beach, coral reef, including deep reef, seagrass beds in bay, freshwater wetland, and La Grange Ghut, juvenile reef fishes nursery. Essential fish habitat.**Wildlife:** Sea turtle nesting beach, fishery, feeding seabirds, turtle nesting beach, fishery and feeding seabirds.**Threaten/Endangered Species:** Leatherback, Hawksbill and Green sea turtles and Brown Pelican.

Socio-Economic Resources: Recreational beach, commercial waterfront businesses, Rainbow, Spratt Hall. High probability of encountering prehistoric resources along shoreline of Frederiksted beaches. Contact SHPO at the above number. Fort Frederick.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: A road runs along the waterfront. Boat : Frederiksted Fisherman's boat ramp has boat launching capability. Deploy boom at Frederiksted pier->boat. Helicopter: Paul Joseph Stadium.

Collection Points:**Area Access:** boat/vehicle/helicopter**Spill Risk:**

Response Resources: Possible future site of Hovensa boom travel site. At Risk: Recreational beach, commercial waterfront businesses. Staging areas: Frederiksted Pier and F'sted fisherman's Dock/Boat Ramp

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 5000**Boom Type:****Booming Method:** Deflection

Protection Strategy: Deflection booming by Grange Ghut. Deploy 5,000 ft. of diversion boom along the beach and establish a collection point. Frederiksted Pier - Containment boom around vessel/barge.



Name: FREDERIKSTED PIER

Site ID:

B515

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 42' 49.321" N

Longitude (DMS): 64° 53' 16.175"

County: St. Croix

Latitude (DD): 17.71370022

Longitude (DD): -64.88782638

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F8

QUAD Name: Frederiksted

Managed Area (if applicable): Frederiksted Waterfront Area of Particular Concern

General Location: Frederiksted

CONTACT INFORMATION

Contacts: V.I. Port Authority - (340) 778-3131; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537;

RESOURCES AT RISK INFORMATION

Shoreline Type: Commercial pier for large cruise ship terminal and other commercial vessels. Concrete man-made shoreline.

Habitat: Commercial pier for large cruise and other commercial vessels.

Wildlife: Feeding seabirds, sensitive marine life on pier pilings.

Threaten/Endangered Species: Brown Pelican, Foraging Green and Hawksbill Turtles.

Socio-Economic Resources: Waterfront town, popular tourist area and marine benthic community associated with pier pilings. Community is popular dive attraction for locals and commercial dive tours. Historic sites

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Use the Frederiksted Pier. F'man boat ramp, ball field Boat: Use the facilities in Frederiksted. Helicopter: Baseball Stadium.

Collection Points:

Area Access: boat/vehicle/helicopter

Spill Risk:

Response Resources: Possible future deployment of Hovensa boom and skim trailer.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1400

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Diversion boom as appropriate in mooring area should be notified to move and protect vessels



Name: WESTEND SALTPOND

Site ID:

B516

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 41' 48.001" N

Longitude (DMS): 64° 53' 30.001"

County: St. Croix

Latitude (DD): 17.69666699

Longitude (DD): -64.89166699

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F8

QUAD Name: Frederiksted

Managed Area (if applicable): Sandy Point Area of Particular Concern, Sandy Point Preserve

General Location: Southwest

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (340) 773-4570; U.S. Fish & Wildlife - (340) 773-4554, Mike Evans (340) 690-9451; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Fine to coarse grain sandy beaches, sheltered mangroves and salt marsh.

Wildlife: Wading and feeding birds.

Threaten/Endangered Species: Brown Pelicans and Least Terns, Black crowned night heron.

Socio-Economic Resources: Popular beach fronting pond and territorial park (Stony Ground Pool).

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: SPT NWR road runs along southside of ponds and north some short distance. Four wheel drive vehicles are recommended for this area. Boat: Frederiksted Fisherman's boat ramp, Frederiksted Pier, staging at USFWS HQ

Collection Points: East End USFWS SPT NWR HQ.

Area Access: vehicle/boats

Spill Risk:

Response Resources: Gated road contact USFWS for access. Potential for Hovensa trailer. Boom/skim

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 200

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: The salt marsh's opening is normally closed to the ocean. Breaching normally occurs at the north into Frederiksted roads, and at the south into the Caribbean Sea. If the marsh is breached and subject to tidal influences construct berms, or deploy 200 ft. of exclusion boom across the openings. Deploy wildlife control measures to protect birds.



Name: SANDY POINT

Site ID:

A517

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: USFWS National Wildlife Refuge of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 40' 55.670" N

Longitude (DMS): 64° 54' 17.506"

County: St. Croix

Latitude (DD): 17.68213045

Longitude (DD): -64.90486290

SCAT Division: St. Croix County Division 1

ESI Map: VI-1

ESI Name: FREDERIKSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F8

QUAD Name: Frederiksted

Managed Area (if applicable): Sandy Point Area of Particular Concern

General Location: Southwest

CONTACT INFORMATION

Contacts: U.S. Fish and Wildlife Service - Sandy Point National Wildlife Refuge - Mike Evans, Refuge Manager - (340) 773-4554; Cluadia Lonebard 690-9451\8325 (C); V.I. State Historic - Elizabeth Righter - (340) 774-3320; Preservation Office (SHPO) - FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Coarse to medium grain high energy sandy beach.**Habitat:** Coarse to medium grain high energy sandy beach. Salt Pond (in addition to West End Salt Pond). March-Sept peak high density sea turtle nesting area. Critical habitat under ESA for Leatherback Turtles**Wildlife:** Colonial sea birds, nesting sea turtles, and Least Terns**Threaten/Endangered Species:** Brown Pelican, Least Tern nesting, Green, Hawksbill, Leatherback sea turtles, fishing bat, and Critical habitat under ESA for Leatherback Turtles**Socio-Economic Resources:** Pigh probability of encountering prehistoric resources in the entire Sandy Point area. Popular beach fronting pond and territorial park (Stony Ground Pool) on Westside. Good Hope School, Health + Safety risk, private school on shoreline.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: A dirt road runs out to Sandy Point. USFWS Sandy Point roads to shoreline. Boat: Frederiksted and Hovensa piers and fishermen's ramp.**Collection Points:****Area Access:** vehicle/boat**Spill Risk:****Response Resources:** Sandy point has the largest Leatherback turtle nesting population in the territorial US. Responders must consult with local F&W personnel prior to taking any actions in this area. Shoreline protection is not usually possible. Cont. See Protection

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Nearshore protection strategies are not normally feasible in this area. Conduct containment booming at USFWS HQ and open water recovery operations before the beach is impacted. Consider diversion boom at USFWS HQ and deploy wildlife control to protect the birds. Offshore skimming may also endanger hatchlings. Heavy machinery used for mechanical recovery may not be allowed on beaches. Possible onsite resources: Boom trailers per Hovensa. 6 trailers with 2,000' of boom per trailer - Good Hope School? and Sandy Point NWR as staging area. Heavy machinery used for mechanical recovery may not be allowed on beaches. Offshore skimming may also endanger hatchlings.

Geographic Response Plan Map: VI-1S

Map Continued on VI-1

17°37'30"N

64°52'30"W

Sandy Point National
Wildlife Refuge

Bay

Caribbean Sea

Map Continued on VI-2S

64°52'30"W

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy
Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- (⚡) Power Plants

- Archaeological Site
- Bird Sanctuary
- Boat Ramp
- Coast Guard
- Coral Reef
- Historical Site
- Manatees
- Mangrove
- Marina
- Pelican Nesting Area
- Phosphorescent Bay
- Sea Bird Nesting Area
- Turtle Nesting
- Water Intake
- Wildlife Refuge/Nature Reserve
- National Park
- NERR
- Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



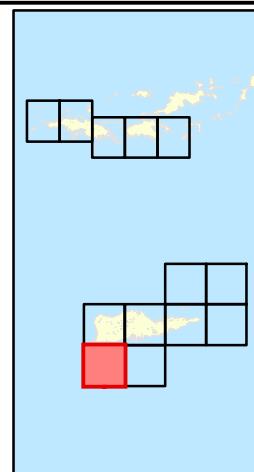
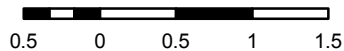
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Geographic Response Plan Map: VI-2

64°45'0"W

Map Continued on VI-1

17°45'0"N

Map Continued on VI-3

17°45'0"N



64°45'0"W

Map Continued on VI-2S

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- (P) Power Plants
- Archaeological Site
- Bird Sanctuary
- Boat Ramp
- Coast Guard
- Coral Reef
- Historical Site
- Manatees
- Mangrove
- Marina
- Pelican Nesting Area
- Phosphorescent Bay
- Sea Bird Nesting Area
- Turtle Nesting
- Water Intake
- Wildlife Refuge/Nature Reserve
- National Park
- NERR
- Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

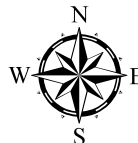
- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



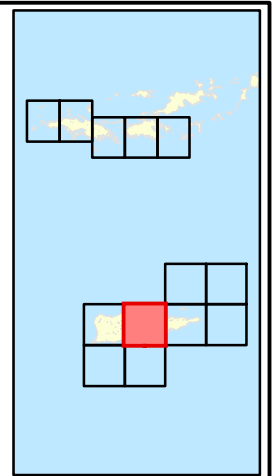
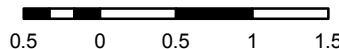
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Name: ALTONA LAGOON (SCHOONER CHANNEL/ROUND REEF)

Site ID:

A504

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 45' 14.799" N

Longitude (DMS): 64° 41' 49.789"

County: St. Croix

Latitude (DD): 17.75411073

Longitude (DD): -64.69716353

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Beauregard Bay

Managed Area (if applicable): Christiansted Waterfront Area of Particular Concern

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grain sandy beach, sheltered mangroves line the channel leading into the shallow tidal lagoon, Red and Black mangroves and seagrass beds in the lagoon.**Habitat:** Fine to medium grain sandy beach, sheltered mangroves line the channel leading into the shallow tidal lagoon, Red and Black mangroves and seagrass beds in the lagoon, Essential Fish Habitat.**Wildlife:** Altoona lagoon and salt pond bridge- Herons, Egrets, shorebirds, seabirds, waterfowl in lagoon and nearshore, Feeding Least Terns from Mar to Aug, nesting and feeding sea turtles and fishery area including shrimp nursery. In salt flats - Least Tern and Wilson's Plover, nesting Mar-Aug.**Threaten/Endangered Species:** Leatherback, Hawksbill, and Green sea turtles, Brown Pelicans, Peregrine Falcons, Least tern, Great-blue Heron, Great Egret, Snowy Egret, Black-crowned Night Heron, White-cheeked Pintail and Fisherman Bat. Elkhorn and Staghorn coral**Socio-Economic Resources:** Public use area

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take East End Rd (Route 82) to Gallows Bay Rd to Altoona Lagoon. Boat: Use fisherman's access ramp at the west end of the Lagoon for trailerable boats. Larger boats may use Gallows Bay Harbor Marina/Port Authority Dock.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Altoona lagoon-a primary staging area for all Response Actions. Staging: The Western end of Altoona Lagoon provides open space for staging equipment. Access east of Altoona Lagoon through entrance of Buccaneer Hotel to Shoy's beach.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 60**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 60 ft. of exclusion boom at the flow pipes under the bridge at the east end of the lagoon. Deploy wildlife control measures to protect birds. Contain and skim.

Name: PROTESTANT CAY

Site ID:

A505

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Critical habitat, Area of particular concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 44' 57.767" N

Longitude (DMS): 64° 42' 21.743"

County: St. Croix

Latitude (DD): 17.74937980

Longitude (DD): -64.70603983

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable): Christiansted Waterfront Area of Particular Concern

General Location: Christiansted

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; Hotel On The Cay - Manager - (340) 773-2035 or (340) 773-2591; V.I. State Historic Preservation Office (VISHPO) - Lorna Thomas - (340) 776-8605; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beach**Habitat:** Fine to medium grained sandy beach, coral reef and seagrass beds in bay.**Wildlife:** Feeding seabirds, fishery, sea turtles, St. Croix Ground Lizard, coral

Threaten/Endangered Species: St. Croix Ground Lizard, Leatherback, Hawksbill and Green sea turtle and Brown Pelicans. This area is a critical habitat under the Endangered Species Act for St. Croix Ground Lizard.

Socio-Economic Resources: Historic graves near shoreline, tourist area, hotel and recreational beach.

RESPONSE CONSIDERATIONS

Staging Area: Boat: A small ferry boat runs from the waterfront NPS, CNHS. Two docks on cay. Staging: The western end of Altona Lagoon provides open space for staging equipment. NPS CNHS HQ.

Collection Points:**Area Access:** boat/vehicle**Spill Risk:**

Response Resources: The navigational aids marking the channel to V.I. WAPA are privately maintained. Use of the aids to anchor boom should be coordinated with V.I. WAPA, V.I. Ports Authority and the local harbor.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: Consider diversion boom at Beauregard Bay, East Ft. Louis Augusta. The strategy for protecting Gallows Bay (C506) may protect Protestant Cay. Deploy diversion boom or containment boom around vessel.



Name: V.I. WATER AND POWER AUTH. DESALINIZATION WATER INTAKE

Site ID:

A508

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 44' 49.252" N

Longitude (DMS): 64° 42' 36.627"

County: St. Croix

Latitude (DD): 17.74701433

Longitude (DD): -64.71017422

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable): Christiansted Waterfront Area of Particular Concern

General Location: Christiansted

CONTACT INFORMATION

Contacts: V.I. Water & Power Auth. - (340) 773-2250; V.I. DPNR - (340) 773-577, (FAX) 773-9310; NOAA - Brad Benggio 206-849-9923;
DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Water Intake

Habitat: Seagrass, coral

Wildlife: Turtle nesting and feeding, coral associated wildlife.

Threaten/Endangered Species: Brown Pelican, Green Sea Turtle, Hawksbill, Acropora

Socio-Economic Resources: Central Power Plant for the entire island and public water

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Vehicles and boats may access the area from Christiansted, or through the V.I. WAPA plant. Seaplane dock. National Park Service headquarters parking lot.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: See V.I. WAPA oil spill plan

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 50

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 50 ft. of boom across the water intake. Deploy a collection boom to the east of the channel and another from the spit at the western end of the power plant. Offshore containment booming and shimming.



Name: LONG REEF

Site ID:

A509

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 45' 35.148" N

Longitude (DMS): 64° 42' 36.015"

County: St. Croix

Latitude (DD): 17.75976321

Longitude (DD): -64.71000422

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Beauregard Bay

Managed Area (if applicable): Christiansted Waterfront Area of Particular Concern

General Location: Sion Farm

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; TNC - La Grade Princess area; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Sandy beaches

Habitat: Coral reef, seagrass beds, sandy beaches.

Wildlife: Reef inhabitants, Acropora habitat, turtle nesting and feeding, feeding birds and fishing bait.

Threaten/Endangered Species: Brown Pelican, Hawksbill and Green sea turtle, and Acropora.

Socio-Economic Resources: Some recreational resorts, Sea plane ramp, condos, beaches, kitesurfing, kayaks. Little Princess - High probability of cultural resources - Contact SHPO

RESPONSE CONSIDERATIONS

Staging Area: Boat: Christiansted is the closest boat launching area. Seaplane ramp, Jones Maritime ramp. Small boat in at Palma at Pelican Cove, WAPA responding boat. Seaplane small responding boat on mooring (NRC) in C'sted

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Strong longshore east to west current. Vehicle: various points in Grand, little Princess. See V.I. WAPA oil spill response plan.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in the reef area. Conduct offshore containment booming and skimming.



Name: SALT RIVER BAY (NATIONAL HISTORICAL PARK AND ECOLOGICAL PRESERVE) **Site ID:** A510**Protection Priority (Season):** Spring: ☐ A Summer: ☐ A Fall: ☐ A Winter: ☐ A**Site Description:** Salt River Bay National Park and Ecological Preserve, Area of Particular Concern**GEOSPATIAL INFORMATION****Latitude (DMS):** 17° 47' 14.764" N**Longitude (DMS):** 64° 45' 18.414"**County:** St. Croix**Latitude (DD):** 17.78743432**Longitude (DD):** -64.75511496**SCAT Division:** St. Croix County Division 1**ESI Map:** VI-2**ESI Name:** CHRISTIANSTED, V.I.**NOAA Chart:** 25641**CHART Name:** VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX**USGS Quad:** 17064-G7**QUAD Name:** Baron Bluff**Managed Area (if applicable):** Salt River Bay Marine Reserve and Wildlife Sanctuary**General Location:** Sion Farm**CONTACT INFORMATION****Contacts:** V.I. DPNR - Commissioner-(340) 774-3320; NPS; Salt River Bay NHP&EP; Christiansted; ST. Croix, USVI - Superintendent - (340) 773-1460 x 222/235 or Fax 719-1791 or Alt. 775-6238, V.I. State Historic Preservation Office - Lorna Thomas - (340) 776-8605; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537**RESOURCES AT RISK INFORMATION****Shoreline Type:** Red and Black mangroves along the interior shoreline, cobble and sandy beaches**Habitat:** Coral reefs at mouth of bay, Red and Black mangroves along the interior shoreline, cobble and sandy beaches. Acropora habitat.**Wildlife:** Several species of water fowl; herons, egrets, Oystercatchers and Night Herons. Nesting Least Terns (March - August), Acropora.**Threaten/Endangered Species:** Brown Pelicans, Leatherback, Hawksbill and Green sea turtles, Oystercatchers, Acropora**Socio-Economic Resources:** Marina and popular recreational area, Natl Park Service ecological reserve + APC. Columbus landing/Prehistoric village. Critical Archaeological site. High probability of encountering prehistoric and historical resources in area. Contact SHPO + NPS.**RESPONSE CONSIDERATIONS****Staging Area:** Vehicle: For Eastside access take Route 751 to Estate Judith's Fancy, then take the private road through the guard gate to the beach. For Westside access take Route 75 to 801 into Salt River Marina and/or Columbus landing site... See other response**Collection Points:****Area Access:** boat/vehicle/helicopter**Spill Risk:****Response Resources:** Boat: Vessels may access the area from Christiansted Marina, or through Salt River Bay Marina in Salt River Bay. Pier facilities at the Salt River Bay Marina are limited to a private dock. Trailerable boats from dirt ramp off of Rte. 80... See Protection**PROTECTION STRATEGY INFORMATION****Tidal Range (FT):****Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 6000**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy protection booming as necessary. Deploy 6,000 ft. exclusion boom across the inner entrance of the lagoon (sea conditions permitting; else boom inner bays). Establish collection points at the beaches on either side of the entrance depending on sea conditions. There are boat moorings outside the reef that could be used with the aid of a diver as boom anchors. Deploy wildlife control measures to protect birds. Barrier to fringing mangroves. Consider use of WAPA boom. Boat Ramp at Salt River Marina. National Park Service visitor contact station, west side, above Salt River Bay parking area.

Name: MANNING BAY

Site ID:

A519

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 41' 33.630" N

Longitude (DMS): 64° 47' 13.869"

County: St. Croix

Latitude (DD): 17.69267503

Longitude (DD): -64.78718595

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F7

QUAD Name: Long Point

Managed Area (if applicable): Southshore Industrial Area Area of Particular Concern

General Location: Southcentral

CONTACT INFORMATION

Contacts: V.I. DPNR - Commissioner - (340) 690-0058-24/7 hr line; (340) 774-3320; V.I. Port Authority - John Payne - (340) 690-2049; (340) 778-3131; (340) 778-8599 , V.I. State Historic Preservation Office (SHPO) - Lorna Thomas-(340) 776-8605, (FAX) 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to coarse grained sandy beach, exposed and protected Mangroves**Habitat:** Fine to coarse grained sandy beach, exposed and protected Mangroves, coral reef, deep reef and seagrass beds in the bay.**Wildlife:** Nesting and feeding sea turtles,waterbirds, Herons, Egrets, Legrets, Brown Pelicans, shorebirds, Least Terns feeding and nesting from April to September and a fishery. Salt Ponds and Salt Flats.**Threaten/Endangered Species:** Leatherback, Hawksbill and Green sea turtles, Brown Pelicans, Least Tern, Great-blue Heron, Great Egret, Snowey Egret, Black-crowned Night Heron, White cheeked Pintail and Fisherman Bat.**Socio-Economic Resources:** Recreational beach. High probability of encountering prehistoric resources in the marked areas. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take the Airport Road (Rt. 64) to numerous dirt access roads, including the one to the sanitary landfill where the opening to the lagoon is located, and through the Flamboyant Race Track property. Cont. See Response**Collection Points:****Area Access:** aircraft/boat/vehicle**Spill Risk:****Response Resources:** Boat:The closest boat access is at Hovensa or the container port. Helicopter & Aircraft: Alexander Hamilton Airport is adjacent to the area. See the oil spill response plans for Hovensa (SJ018) and Renaissance Group (SJ023).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 100**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** The beach is approximately 8,000 ft. long. Most of the mangroves are sheltered. If the stream is influenced by the tide construct a berm across its' mouth near the landfill, or deploy 100 ft. of exclusion boom. Consider diversion booming along the beach. Deploy wildlife control measures to protect birds.

Name: KRAUSE LAGOON/RENNAISSANCE CHANNEL/WETLAND

Site ID:

A520

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 41' 11.878" N

Longitude (DMS): 64° 46' 8.248" W

County: St. Croix

Latitude (DD): 17.68663280

Longitude (DD): -64.76895779

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F7

QUAD Name: Long Point

Managed Area (if applicable): Southshore Industrial Area Area of Particular Concern

General Location: Southcentral

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 690-0058; Virgin Islands Port Authority - John Payne - (340) 690-2049, (340) 778-3131, (340) 778-8599 (home); Hovensa -(340) 692- 3000; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Mangroves, fill and wetlands.

Habitat: Mangroves, fill and wetlands.

Wildlife: Red Mangroves. Herons and egrets. Green Sea turtles, Brown Pelicans.

Threaten/Endangered Species: Feeding and nesting Least Terns from April to September, Brown Pelicans and Willet. Brown Boobies, feeding green turtles.

Socio-Economic Resources: Commercial waterway, North of Road - wetland/salt pond adjacent to / between container port and Molasses Dock.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Use Container Port Road to the port area, or to the molasses dock. A road also runs along the drainage ditch to the collection point. Boat: Large and small vessels may operate out of the adjacent facilities. Port facilities = secure staging

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Dedicated response trailer for Ruth Island on Hovensa dock nine; First Priority seal-off lagoon channel entrance with boom, north of molasses dock staging area. Renaissance group response plan. VI Port Authority vessel on site.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3000

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 3,000 ft. of diversion boom along the beach to the collection point near the drainage ditch. Close off mouth of Krausse Lagoon Channel with 700 ft. of bloom. This is high priority. See Renaissance Group Response Plan. VI Port Authority vessel on site. Public boat ramp on Molasses Dock. Asphalt parking area.



Name: RUTH CAY

Site ID:

A521

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 40' 52.312" N

Longitude (DMS): 64° 46' 1.050" W

County: St. Croix

Latitude (DD): 17.68119776

Longitude (DD): -64.76695827

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F7

QUAD Name: Long Point

Managed Area (if applicable): Southshore Industrial Area Area of Particular Concern

General Location: Southcentral

CONTACT INFORMATION

Contacts: V.I. DPNR HQ - (340) 773-8310, (340) 772-7648, (FAX) 773-9310; DPNR/DFW - (340) 643-0800; DPNR/DFW- director- 775-6762; DPNR Fish and Wildlife-Judy Pierce (Chief of Wildlife)- (340) 777-5611; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Exposed mangroves, saltwater wetland, and coarse grain sand and rubble beaches.**Habitat:** Exposed mangroves, saltwater wetland, and coarse grain sand and rubble beaches.**Wildlife:** Nesting White-crowned Pigeons and nesting and feeding sea turtles, nesting Willets, White-checked Pintails, American Oyster Catcher. Nesting Least Terns (Apr. - Sept.). St. Croix Ground Lizard, coral**Threaten/Endangered Species:** Sea Turtles, Brown Pelicans, St. Croix Ground Lizard, Willet, White-Cheeked Pintail, Great Egret, Little Blue Heron and over Winter Peregrine Falcon. Green & Hawksbill Sea turtles, Am. Oyster catchers, Wilson's Plover, Elkhorn Coral (Shallow)**Socio-Economic Resources:** Surrounding coral reef habitat, predominantly S-SW

RESPONSE CONSIDERATIONS

Staging Area: Boat: Large and small vessels out of the adjacent facilities - MSRC, NRC, Hovensa. Staging: The port facilities in the area provide secure staging areas.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** At Risk: Surrounding coral reef habitat, predominantly seagrass and sea weeds.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2000**Boom Type:****Booming Method:** Deflection**Protection Strategy:** Deploy 4,000 ft. of diversion boom from the cay to protect the mangroves. Consider using offshore dispersants and the pre-application of a wetting agent on the mangroves. Deploy wildlife control measures to protect birds. See map for booming strategy. Close off opening between Ruta Cay and Renaissance property with 600 ft FT bloom. Hovensa resources deployed.

Name: KRAUSE LAGOON

Site ID:

A522

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 41' 52.785" N

Longitude (DMS): 64° 45' 46.148"

County: St. Croix

Latitude (DD): 17.69799573

Longitude (DD): -64.76281880

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F7

QUAD Name: Long Point

Managed Area (if applicable): Southshore Industrial Area Area of Particular Concern

General Location: Southcentral

CONTACT INFORMATION

Contacts: V.I. DPNR - 24 hr phone number- (340) 244-9066; V.I. DPNR - Commissioner - Robert Mathes - (340) 774-3320; Hovensa- (340) 692-3000; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Sheltered mangroves and fill.

Habitat: Sheltered mangroves and fill.

Wildlife: Herons, Egrets, Least Terns

Threaten/Endangered Species: Browns Pelicans, winter season Peregrine Falcons, Nesting Least Terns (Apr-Sept), White-Cheeked Pintails.

Socio-Economic Resources: Channel for commercial vessels.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Vehicles and large and small vessels may use the old public molasses dock staging area. Staging: The port facilities in the area provide secure staging areas.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: See the oil spill response plans for Hovensa (SJ018) and Renaissance Group (SJ023)

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 1,000 ft. of diversion boom north of boat ramp at the old Molasses Dock (old) to west mouth of the channel to a collection point on the west side. Deploy wildlife control measures to protect birds. Boom inlets for mangroves.



Name: HOVENSA, L.L.C. OIL

Site ID:

A523

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: Commercial/Refinery

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 42' 10.267" N

Longitude (DMS): 64° 44' 34.436"

County: St. Croix

Latitude (DD): 17.70285198

Longitude (DD): -64.74289897

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable): Southshore Industrial Area Area of Particular Concern

General Location: Southcentral

CONTACT INFORMATION

Contacts: V.I. DPNR - Hovensa- (340) 962-3000; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537;

RESOURCES AT RISK INFORMATION

Shoreline Type: Water intake to Hovensa desalinization plant and fire main system. Seawall and docks

Habitat: Deep water port

Wildlife: None reported.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Vehicles and large and small vessels may use the adjacent facilities. Staging: The port facilities in the area provide secure staging areas.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: See the oil spill response plan for Hovensa

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 100

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 100 ft. of exclusion boom at the intake.



Name: LIMETREE BAY

Site ID:

A524

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 41' 30.001" N

Longitude (DMS): 64° 45' 0.000" W

County: St. Croix

Latitude (DD): 17.69166698

Longitude (DD): -64.75000001

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F7

QUAD Name: Long Point

Managed Area (if applicable): Southshore Industrial Area Area of Particular Concern

General Location: Southcentral

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; V.I. DPNR - Commissioner - (340) 774-3320; Hovensa - (340) 692-3000; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Commercial piers, bulkheads and riprap.

Habitat:

Wildlife: Nearby mangroves.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Vehicles and large and small vessels may use the adjacent facilities. Staging: The port facilities in the area provide secure staging areas.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: See the oil spill response plans for Hovensa (SJ018) and (SJ023)

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3000

Boom Type:

Booming Method: Containment/Deflection

Protection Strategy: Depending on the source of the spill, deploy 3,000 ft. of boom to contain oil between the piers, or divert it to the collection point near the mouth of Krause Lagoon.



Name: CANEGARDEN BAY BEACHES AND SALT POND

Site ID:

A525

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 42' 9.919" N

Longitude (DMS): 64° 44' 3.891" W

County: St. Croix

Latitude (DD): 17.70275522

Longitude (DD): -64.73441417

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable): Southshore Industrial Area Area of Particular Concern

General Location: Southcentral

CONTACT INFORMATION

Contacts: Foundation of the University of the V.I. - Marcia Taylor (for salt pond); V.I. DPNR - Commissioner - (340) 774-3320, (FAX) 773-9310 ; Hovensa - main office - (340) 692-3000; V.I. State Historic Preservation Office (SHPO)- Lorna Thomas - (340) 776-8605; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beach, salt pond and sheltered mangroves**Habitat:** Fine to medium grained sandy beach, salt pond, sheltered mangroves, coral reef, deep reef and seagrass beds in bay. Shallow seagrass, shallow patch reef.**Wildlife:** Nesting and feeding sea turtles, Black and White mangroves behind beach berm, Herons, Egrets, fishery and shorebirds. Breeding Least Terns from April to September**Threaten/Endangered Species:** Leatherback, Hawksbill and Green sea turtles, Brown Pelicans, feeding Least Terns from Apr- Sept, Great blue Heron, Great Egret, Snowy Egret, Black-crowned Night Heron, White-cheeked Pintail and Fisherman Bats.**Socio-Economic Resources:** Recreational beach. High probability of encountering prehistoric and historical resources in the majority of the Cane Garden Bay and Salt Pond areas. Contact SHPO at above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Castle Coakly Road (Rt. 81) to Hope Road (Rt. 68), then onto the dirt access road next to Fig Tree Gut homes (in Hovensa property), or take Southshore Road (Rt. 62) to the church entrance road. Cont. See Response**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Boat: Large and small vessels may operate out of the adjacent facilities, deploy boom from Hovensa. Staging: See the oil spill response plans for Hovensa (SJ018) and (SJ023)

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1000**Boom Type:****Booming Method:** Containment**Protection Strategy:** Deploy 1,000 ft. of collection boom to protect the beach. If the salt pond is breached and subject to tidal influence construct a berm to protect the mangroves. Deploy wildlife control measures to protect birds. Recreational beach at risk.

Name: MANCHENIL BAY AND HALF PENNY BAY BEACHES

Site ID:

A526

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 41' 56.663" N

Longitude (DMS): 64° 42' 24.396"

County: St. Croix

Latitude (DD): 17.69907305

Longitude (DD): -64.70677676

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable):

General Location: Anna's Hope Village

CONTACT INFORMATION

Contacts: V.I. DPNR - Commissioner- (340) 774-3320; (FAX) 773-9310; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas- (340) 776-8605, (FAX) 775-5706; Hovensa - (340) - 692-3000; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beaches, sheltered mangroves behind Halfpen Beach and Saltwater marsh.

Habitat: Fine to medium grained sandy beaches, shallow coral reef, deep reef, shallow seagrass beds in bay, and sheltered mangroves behind Halfpen Beach. Saltwater marsh.

Wildlife: Nesting and feeding Leatherback, Hawksbill and Green sea turtles, fishery and feeding seabirds..

Threaten/Endangered Species: Leatherback, Hawksbill and Green sea turtles and Brown Pelicans.

Socio-Economic Resources: Recreational /swimming beaches. High probability of encountering paleontological and prehistoric resources in the marked areas. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take the access roads off of South Shore Road (Rt. 62). Take Granard Rd to Halfpenny Bay. Enter through two pink columns Boat: Large and small vessels may operate out of the adjacent facilities.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: See the oil spill response plans for Hovensa (SJ018) and Renaissance (SJ023)

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method: Deflection/Protection/Exclusion

Protection Strategy: Diversion booming should be considered when sea conditions permit. If mangroves are threatened as a result of marsh breaching construct an exclusion berm. If high sea condition, exclusion berm at Hay Penny wetlands inlet.



Name: NHS / CHRISTIANSTED HARBOR

Site ID:

B507

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 44' 48.543" N

Longitude (DMS): 64° 42' 8.104" W

County: St. Croix

Latitude (DD): 17.74681737

Longitude (DD): -64.70225124

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable):

General Location: Christiansted

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774 or (FAX) 773-9310; National Park Service (C'Sted) - 2100 Church St #100, Christiansted, ST. Croix USVI 00820 - (340) 719-1719; Nat. Park Service- Zandy Staw-Chief Resource Mgmt - (340) 773-1460 x 235 or (340) 297-6922; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Piers, bulkhead and boardwalks for commercial and recreational vessels, cobble, reef and sandy beaches.**Habitat:** Piers, cobble, reef and sandy beaches.**Wildlife:** Sea birds and tarpon feeding area, seagrass and coral reef minimal.**Threaten/Endangered Species:** Hawksbill and Green sea turtles.**Socio-Economic Resources:** Fort Christiansvaern, Protestant Cay + submerged cultural resources in harbor. National historic site, recreational area, restaurants, small waterfront businesses, and designated anchorage.

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Vehicles and boats may access the area from Christiansted area. Staging: The western end of Altona Lagoon provides open space for staging equipment. NPS HQ potential command post for spill response.**Collection Points:** Corral and collect at King Christian bulkhead.**Area Access:** boat/vehicle/helicopter**Spill Risk:****Response Resources:** Navigational aids marking channel to V.I. WAPA facility are privately maintained. Use of the aids to anchor boom should be coordinated with VIWAPA and ports Authority.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:**

Protection Strategy: If Christiansted waterfront is not protected by the protection strategy for Gallows Bay (See C506) it should be protected with exclusion booming along piers and in front of Fort Christiansvaern c'sted NHS. Exclusion booming in front of boardwalk and keep off rip-rap armoring. Use of the aids to anchor boom should be coordinated with V.I. WAPA. Also NPS parking for staging area + waterfront. CNHS - Staging + collection at bulkhead, triathlete ramp. The National Park Service has an HQ in Christiansted. VI Port Authority at Gallows Bay, C506. NRC 34' Response Boat in Christiansted Harbor (See VIWAPA)



Name: GALLOWS BAY (COMMERCIAL PORT)

Site ID:

C506

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 44' 56.569" N

Longitude (DMS): 64° 42' 4.985" W

County: St. Croix

Latitude (DD): 17.74904690

Longitude (DD): -64.70138466

SCAT Division: St. Croix County Division 1

ESI Map: VI-2

ESI Name: CHRISTIANSTED, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable): Christiansted Waterfront Area of Particular Concern

General Location: East End

CONTACT INFORMATION

Contacts: V.I. Port Authority - John Payne - (340) 690-2049, (340) 778-3131, (340) 778-8599; V.I. DPNR - (340) 773-5774, (FAX) 773-9310; St. Croix Marina - Larry Angus - (340) 773-0289; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Developed waterfront, riprap, seagrass.

Habitat: Developed waterfront, riprap, seagrass.

Wildlife: Seabirds, coral reef, seagrass, small game fishes, bait fish, sea turtles

Threaten/Endangered Species: Brown Pelican, Hawksbill and Green Sea turtles.

Socio-Economic Resources: Commercial Port and Marina

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Vehicles and boats may access the area from Christiansted and via the ferry boat service near the NPS CNHS. Aircraft: Seaplane ramp in Christiansted. Staging: The NPS CNHS HQ and waterfront provide open space + boat ramp.

Collection Points:

Area Access: aircraft/boat/vehicle

Spill Risk:

Response Resources: Navigational aids marking the channel to V.I. WAPA are privately maintained. Use of the aids to anchor boom should be coordinated with V.I. WAPA, V.I. Ports Authority and local harbor pilots. Numerous private boats could be used in oil spill response.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3600

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 3,600 ft. of diversion boom across the bay from the shore just east of Mt. Welcome to north side of Protestant Cay (only in ideal conditions). Consider Boom around Protestant Cay to the near Kings Wharf and diversion boom at Beauregard bay. All weather and aircraft dependent.



Geographic Response Plan Map: VI-2S

64°45'0"W

Map Continued on VI-2

AS21-ROTH CAT

Caribbean Sea

17°37'30"N

Map Continued on VI-1S

17°37'30"N

64°45'0"W

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- (⚡) Power Plants

- Archaeological Site
- Bird Sanctuary
- Boat Ramp
- Coast Guard
- Coral Reef
- Historical Site
- Manatees
- Mangrove
- Marina
- Pelican Nesting Area
- Phosphorescent Bay
- Sea Bird Nesting Area
- Turtle Nesting
- Water Intake
- Wildlife Refuge/Nature Reserve
- National Park
- NERR
- Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



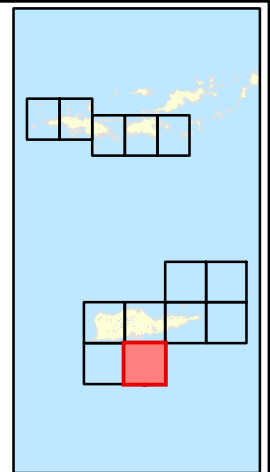
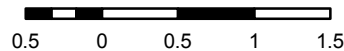
US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



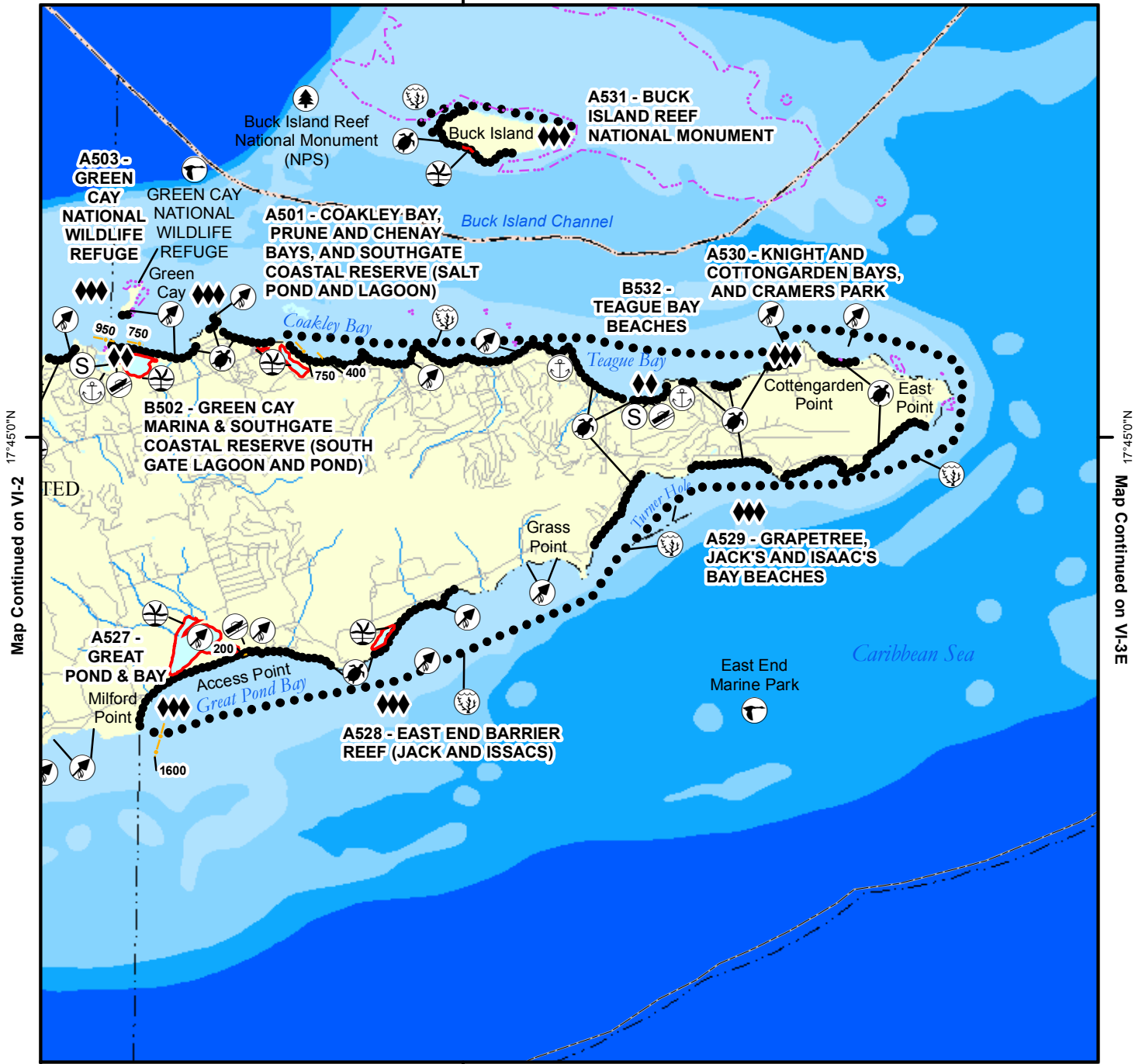
Miles



Geographic Response Plan Map: VI-3

64°37'30"W

Map Continued on VI-3N

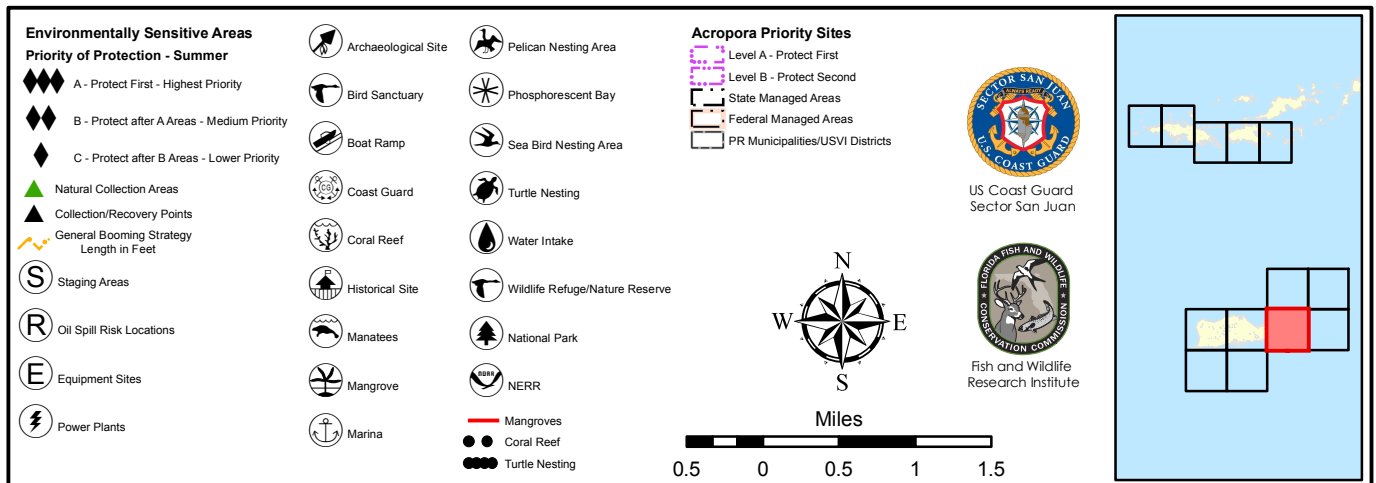


Map Continued on VI-2

Map Continued on VI-3E

64°37'30"W

Map Continued on VI-2S



Name: COAKLEY BAY, PRUNE AND CHENAY BAYS, AND SOUTHGATE COASTAL RESE

Site ID:

A501

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern and St. Croix East End Marine Park

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 46' 0.001" N

Longitude (DMS): 64° 39' 18.000"

County: St. Croix

Latitude (DD): 17.76666700

Longitude (DD): -64.65500000

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Beauregard Bay

Managed Area (if applicable): East End Marine Park

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; St. Croix Env Association for Southgate Pond - (340) 773-1989; St Croix East End Marine Park (STXEEMP) - (340) 773- 3367; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beach, salt pond with black, red, and white mangroves behind beach berm, coral reefs

Habitat: Fine to medium grained sandy beach, salt pond with black, red, and white mangroves behind beach berm, coral reefs, deep reefs and seagrass beds in the bay.

Wildlife: Herons, Egrets, Brown Pelicans, shorebirds, feeding and nesting Least Terns from March to August, nesting and feeding sea turtles and a fishery. Acropora palmata habitat (A. Cervicornis rare).

Threaten/Endangered Species: Leatherback, Hawksbill, and Green sea turtles, Brown Pelicans, Least Tern, great Blue heron, Great Egret, Snowy Egret, Black-crowned Night Heron, White-cheeked Pintail and Fisherman Bait. A.Palmata and A. cervicornis

Socio-Economic Resources: Recreational beaches, commercial hotels along shoreline

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take East End Road (Route 62) to Coakly Bay Beach access road (the access road is approximately 2 miles beyond Chenay), or go through Carden Beach Condos. Boat: Use Green Cay marina. Primary staging area at C'Sted harbor, Altona Lagoon.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Southgate Salt Pond: Access road Southgate Preserve on left shortly after Cheeseburger in Paradise.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 450

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: The beach protecting the pond behind Coakely Bay and Southgate Pond may be breached due to heavy rainfall and storm flood. If breached construct berms, or consider deploying 150 ft. exclusion boom across the openings. Coakley pond has a history of breaching in two locations and Southgate pond in one location. A total of 450 ft. of boom is required. Deploy wildlife control measures to protect birds if ponds are breached.



Name: GREEN CAY NATIONAL WILDLIFE REFUGE

Site ID:

A503

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 46' 3.818" N

Longitude (DMS): 64° 40' 2.412" W

County: St. Croix

Latitude (DD): 17.76772721

Longitude (DD): -64.66733659

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Beauregard Bay

Managed Area (if applicable): East End Marine Park

General Location: East End

CONTACT INFORMATION

Contacts: U.S.Fish & Wildlife Service - Refuge Manager - Mike Evans - (340) 773-4554, (cell)690-9451; Alternate contact: (340) 696-9451 (Boqueron) - (FAX) - 851-7440; STXEEMP - (340) 773-3367; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Rocky shore with some coarse sand beaches**Habitat:** Rocky shore with some coarse sand beaches, sea grass beds on the southside and coral reef area on east and southeastern. Critical habitat for Ground Lizard.**Wildlife:** Colonial sea birds, sea turtles, and endemic lizards, St. Croix Ground Lizard. A. Palmata**Threaten/Endangered Species:** Brown Pelican, St. Croix Ground Lizard, Green and Hawksbill turtles. A. Palmata, Elkhorn coral on east side.**Socio-Economic Resources:** None reported

RESPONSE CONSIDERATIONS

Staging Area: Boat: Green Cay Marina is the closest boat facility.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** NPS boats, three 25 - 27 ft motor boats.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:** Deflection

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Diversion booming should be considered under favorable weather conditions. Critical habitat under Endangered Species Act for ground lizard. Recreational resources- snorkeling and kayaking areas



Name: GREAT POND & BAY

Site ID:

A527

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 42' 57.843" N

Longitude (DMS): 64° 39' 41.819"

County: St. Croix

Latitude (DD): 17.71606737

Longitude (DD): -64.66161633

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable): East End Marine Park

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - Commissioner- Robert Mathes- (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605; St Croix East End Marine Park (STXEEMP) - (340) 773- 3367; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Medium grain sand beach, mangroves lined channel into shallow tidal lagoon**Habitat:** Medium grain sand beach, mangroves lined channel into shallow tidal lagoon, deep reefs, barrier reefs and seagrass beds in the bay. Acropora habitat.**Wildlife:** Nesting and feeding sea turtles, Red and Black Mangroves, coral reefs, Herons, Legrets, shorebirds, important staging area for migrating shorebirds from April to September and fishery resource. Acropora habitat.**Threaten/Endangered Species:** Leatherback, Hawksbill and Green sea turtles, Brown Pelicans, Peregrine Falcons, feeding Least Terns, Great-blue Heron, Great Egret, Snowey Egret, Black-crowned Night Heron, Whitecheeked Pintail, Willet and Fisherman Bat, Acropora**Socio-Economic Resources:** Boy Scout Camp. High probability of encountering prehistoric resources in numerous area in the Great Pond area. Contact SHPO at the above number.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take South Shore Road (Rt. 60) to the dirt roads on the northeastern and southeastern sides of the pond. Go through the Boy Scout camp to access the west side of the beach. STXEEMP - east end of Great Pond- Cont. See Response**Collection Points:****Area Access:** boat/vehicle/helicopter**Spill Risk:****Response Resources:** -foot trail from office grounds (housing & Parks, recreation, leased land). The boy Scout Camp west end and STXEEMP HQ East end would be possible for deployment center. Staging for response at Great Pond.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 50**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** The beach is often high energy and difficult to protect. To protect the mangroves construct a berm, or deploy 50 ft. of exclusion boom across the small opening to Great Pond. The opening is located on the eastern side of the pond. Deploy wildlife control measures to protect the birds. The East End Barrier Reef starts near Great Pond and circles St. Croix counter clockwise to Pull-Point on the island's north side with a break at east end of STX.

Name: EAST END BARRIER REEF (JACK AND ISSACS)

Site ID:

A528

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 43' 5.479" N

Longitude (DMS): 64° 38' 3.338" W

County: St. Croix

Latitude (DD): 17.71818849

Longitude (DD): -64.63426052

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F6

QUAD Name: Christiansted

Managed Area (if applicable): East End Marine Park

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - 24 hr phone number- (340) 244-9066; V.I. DPNR - Commissioner - Robert Mathes - (340) 774-3320, CZM/STX EEMPark. TNC/Jeanne Brown; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: The barrier reef starts near Great Pond clockwise to Pull Point on the island's north side. Acropora habitat, seagrass beds, sandy beaches.

Habitat: Acropora habitat (Elkhorn Coral), seagrass beds, sandy beaches.

Wildlife: Fishery, feeding seabirds, feeding sea turtles and coral reef, Acropora (Elkhorn coral), seagrass

Threaten/Endangered Species: Leatherback, Hawksbill and Green Sea Turtles, Brown Pelicans, Acropora Sp.

Socio-Economic Resources: Recreational snorkeling and diving, also commercial/recreational fishing

RESPONSE CONSIDERATIONS

Staging Area: (see A527) Boat: Use local boat operators that are familiar with the reef area. Use Hovenssa as staging area as well as Old Molasses Dock.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources: Longshore east to west current

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method: Containment

Protection Strategy: The reef can not be protected by normal inshore protection methods. Conduct containment booming and oil recovery operations before the oil impacts the area. Consider the use of dispersants.



Name: GRAPETREE, JACK'S AND ISAAC'S BAY BEACHES

Site ID:

A529

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR and CZM STXEEMP

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 44' 35.430" N

Longitude (DMS): 64° 35' 26.489"

County: St. Croix

Latitude (DD): 17.74317503

Longitude (DD): -64.59069133

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-F5

QUAD Name: Grass Point

Managed Area (if applicable): East End Marine Park

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; V.I. DPNR - Commissioner - (340) 774-3320; STXEEMP - (340) 773-3367, TNC - Jack & Isaacs; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beaches, coral reefs

Habitat: Fine to medium grained sandy beaches, coral reefs including deep reef and seagrass beds in the bays. A. Palmata and Elkhorn coral habitats.

Wildlife: Sea turtle nesting and feeding areas, fishery and feeding seabirds. Least Terns and Plover nesting (March - August).

Threaten/Endangered Species: Leatherback, Hawksbill and Green sea turtles, Brown Pelicans. A Palmata and A. Cervicornis.

Socio-Economic Resources: Recreational beaches, APC - Natural area

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: A four wheel drive vehicle is recommended for this area. Use Southeast Shore Road (Rt. 60) to the beach access roads. The roads are very difficult to pass. Use the dirt road originating by Cramer's Park, Cont. See Response

Collection Points:

Area Access: boat/helicopter/vehicle

Spill Risk:

Response Resources: or go through Grapetree Estates by foot - East End Bay from Pt. Udall by foot. Boat: Boats may use St. Croix Yacht Club, sand beach ramp or the container ramp. Use Altona Lagoon staging area or Southshore Molasses Dock.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method: Containment

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Conduct containment booming and oil recovery operations. Consider the use of dispersants before the oil impacts the area. Recreational beaches and APC natural area at risk. Strong east to west longshore current.



Name: KNIGHT AND COTTONGARDEN BAYS, AND CRAMERS PARK

Site ID:

A530

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: St. Croix East End Marine Park, recreational beach, swimming and snorkeling area

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 45' 36.825" N

Longitude (DMS): 64° 35' 10.412"

County: St. Croix

Latitude (DD): 17.76022925

Longitude (DD): -64.58622554

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Buck Island

Managed Area (if applicable): East End Marine Park

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - Page Rothenberger - (340) 773-5774, (FAX) 773-9310; STXEEMP - (340) 773-3367; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beaches, coral reefs, deep reef, barrier reefs and sea grass beds in the bays.

Habitat: Fine to medium grained sandy beaches, coral reefs, deep reef, barrier reefs and sea grass beds in the bays. A. Palmata habitat.

Wildlife: Sea turtle nesting and feeding areas, fishery and feeding seabirds. Acropora

Threaten/Endangered Species: Leatherback, Hawksbill and Green sea turtles and Brown Pelican. A. Palmata and A. Cervicornis

Socio-Economic Resources: Popular recreational beaches. Potential archaeological and prehistoric sites near shoreline

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available along East End Road. Boat: The St. Croix Yacht Club sand beach boat ramp.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Strong longshore current (east to west).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 4000

Boom Type:

Booming Method: Deflection

Protection Strategy: Consider deploying 2,000 ft of diversion boom from Cramers Park. Potential archeological and prehistoric sites shoreline.



Name: BUCK ISLAND REEF NATIONAL MONUMENT

Site ID:

A531

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: National Monument (NPS), Marine Protected Area

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 47' 13.288" N

Longitude (DMS): 64° 36' 52.707"

County: St. Croix

Latitude (DD): 17.78702457

Longitude (DD): -64.61464090

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Buck Island

Managed Area (if applicable): Buck Island National Monument, St. Croix Coral Reef System Area of Particular Concern

General Location: East End

CONTACT INFORMATION

Contacts: Nat. Park Service; 2100 Church St. #100; Christiansted; St. Croix; VI 00820- Head Quarters- (340) 773-1460, Superintendent Joel Tutein - X222 - (340) 277-6922 (C), Chief Resource mgmt - Zandy Hills Starr- X235 - (340) 277-6932 (C), (340) 626-5647 (C); Chief Law Enforcement - Lorena Harris - X234 - (340) 719-3110 (H), (340) 277-6782 (C), Adrian Fernandez - LE Ranger - (340) 277-6798 (C); NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Tropical dry forest comprises 60 to 70 percent of the island's shoreline, medium grained sandy beach on the southwest end of the island, and highly sensitive (primarily elkhorn) coral reefs surrounding the island's SE to NW Side.

Habitat: Tropical dry forest comprises 60 to 70 percent of the island's shoreline, medium grained sandy beach on the southwest end of the island, and highly sensitive (primarily Elkhorn) coral reefs surrounding the island's SE to NW Side.

Wildlife: Coral reefs surrounding island and migratory birds. The southwest end of the island has prehistoric site and middens. Shore birds, wading birds, and sea turtles.

Threaten/Endangered Species: Leatherback, Hawksbill, Loggerhead and Green sea turtles, Brown Pelicans, and Least Terns that nest annually on the north shore. Elkhorn coral reef.

Socio-Economic Resources: 1800s shipwreck off west end shallow coral reef. Popular recreational area for boating, swimming, snorkeling and SCUBA diving on east end underwater trail and southwest, west beach.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: The closest access is Altoona Lagoon on the main island of St. Croix. Boat: Island can be accessed by pier, southside, and open beach, southwest end. Access to the east end is restricted to a navigational opening in the- Cont. See Response

Collection Points:**Area Access:** boat/helicopter**Spill Risk:**

Response Resources: NPS has 3 Boston whalers (25'-27') docked at Green Cay Marina. 10 min response time to Buck Island from Green Cay Marina to transport and deployment of spill response materials.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:** Containment/Deflection

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Conduct source containment booming and offshore recovery and skimming operations prior to oil impacting the Buck Island area. Consider diversion booming. Insitu-burnig and dispersion use as appropriate. Staging Cont.- surrounding reef on the Southeast side of the island, marked by navigational aids. Boat: Green Cay Marina or St. Croix Yacht Club or St. Croix Marina to load boom + transport to Buck Island Reef to deploy for deflecting oil. Helicopter: Designated heli-spot on open sand beach.



Name: GREEN CAY MARINA & SOUTHGATE COASTAL RESERVE (SOUTH GATE LAGOON

Site ID:

B502

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Mangrove lagoon, coastal beaches and Salt Pond

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 45' 42.001" N

Longitude (DMS): 64° 40' 12.000"

County: St. Croix

Latitude (DD): 17.76166699

Longitude (DD): -64.66999999

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Beauregard Bay

Managed Area (if applicable): Southgate Pond / Chenay Bay Area of Particular Concern

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774; ; Green Cay Marina - (340) 773-1453; FAX 773-9651 ST. Croix Environmental Assoc. (340) 773-1989; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: mangroves, riprap, sandy beach

Habitat: Sheltered mangroves, bulkheads, riprap and marina, sandy beach, seagrass(<1m)

Wildlife: Mangroves, waterbirds, turtles.

Threaten/Endangered Species: Brown Pelican, Hawksbill and Green Sea Turtle, leatherback nesting and foraging area, herons, egrets, shorebirds.

Socio-Economic Resources: Commercial marina with very poor flushing and low water turnover rates.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Enter at Green Cay Marina. Boat: Green Cay Marina not accessible overgrown with mangroves. Southgate Boat ramp: Access through Chenay Bay Resort or dirt rd w. of Chenay Bay, E. of Seven seas.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: On site resources: The National Park Service has three 27ft patrol boats at the marina, and two resource mgt. boats 25, 27 ft. Green Cay Marina fueling station spill response?

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 200

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 200 ft exclusion boom across the channel entrance. Deploy exclusion boom or construct a berm across any breaches in Southgate Pond. Boom in front of mangroves in marina.



Name: TEAGUE BAY BEACHES

Site ID:

B532

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: Recreational waterfront and St. Croix East End Marine Park

GEOSPATIAL INFORMATION

Latitude (DMS): 17° 45' 24.010" N

Longitude (DMS): 64° 36' 12.636"

County: St. Croix

Latitude (DD): 17.75666952

Longitude (DD): -64.60350988

SCAT Division: St. Croix County Division 1

ESI Map: VI-3

ESI Name: EAST POINT, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 17064-G6

QUAD Name: Buck Island

Managed Area (if applicable): East End Marine Park

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-5774, (FAX) 773-9310; CZM STXEEP - (340) 773-3367; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grained sandy beach, coral reef, private yacht club

Habitat: Fine to medium grained sandy beach, coral reef, deep reef, barrier reef, seagrass beds in bay, and private yacht club. Acropora habitat.

Wildlife: Nesting and feeding sea turtles, fishery and feeding seabirds. A. Palmata, A. cervicornis, elkhorn and staghorn coral reefs.

Threaten/Endangered Species: Leatherback, Hawksbill and Green sea turtles and Brown Pelicans. A. Palmata and A. Cervicornis. Elkhorn and Staghorn coral.

Socio-Economic Resources: Popular recreation beaches and Private St. Croix Yacht Club. Potential archaeological and prehistoric resources.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take East End Road (Route 82) to St. Croix Yacht Club. Boat: The St. Croix Yacht Club has a sloping beach access. Use primary staging at Altoona Lagoon.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: AT RISK: Populated recreational beach and private St. Croix Yacht Club

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1600

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 1,000 ft exclusion boom for deflecting off shoreline and boats at anchor at east end of Teague Bay to Romney Pt.



Geographic Response Plan Map: VI-3E

64°30'0"W

Map Continued on VI-3NE

Map Continued on VI-3

17°45'0"N

17°45'0"N

64°30'0"W

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- (⚡) Power Plants

- Archaeological Site
- Bird Sanctuary
- Boat Ramp
- Coast Guard
- Coral Reef
- Historical Site
- Manatees
- Mangrove
- Marina
- Pelican Nesting Area
- Phosphorescent Bay
- Sea Bird Nesting Area
- Turtle Nesting
- Water Intake
- Wildlife Refuge/Nature Reserve
- National Park
- NERR
- Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



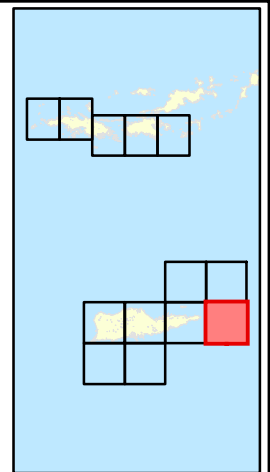
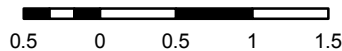
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Geographic Response Plan Map: VI-3N

64°37'30"W

17°52'30"N

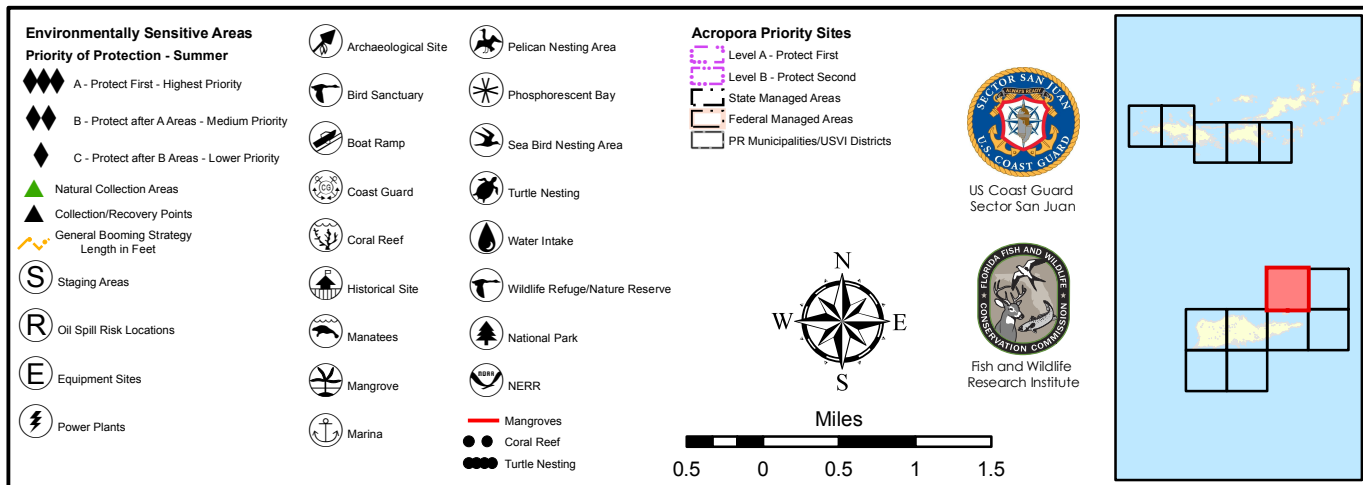
17°52'30"N

Map Continued on VI-3NE



64°37'30"W

Map Continued on VI-3



Geographic Response Plan Map: VI-3NE

64°30'0"W

Map Continued on VI-3N
17°52'30"N

17°52'30"N

Caribbean Sea

64°30'0"W

Map Continued on VI-3E

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- (⚡) Power Plants

- Archaeological Site
- Bird Sanctuary
- Boat Ramp
- Coast Guard
- Coral Reef
- Historical Site
- Manatees
- Mangrove
- Marina
- Pelican Nesting Area
- Phosphorescent Bay
- Sea Bird Nesting Area
- Turtle Nesting
- Water Intake
- Wildlife Refuge/Nature Reserve
- National Park
- NERR
- Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



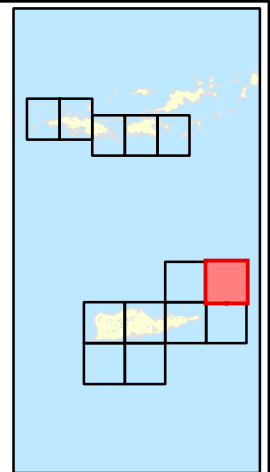
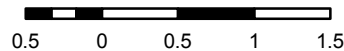
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Geographic Response Plan Map: VI-4

65°0'0"W

18°22'30"N

18°22'30"N

Map Continued on VI-5



65°0'0"W

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- (⚡) Power Plants

- (🗿) Archaeological Site
- (🐦) Bird Sanctuary
- (🚤) Boat Ramp
- (👮) Coast Guard
- (🌊) Coral Reef
- (🏠) Historical Site
- (🐬) Manatees
- (🌿) Mangrove
- (⚓) Marina
- (🐦) Pelican Nesting Area
- (☀️) Phosphorescent Bay
- (🐦) Sea Bird Nesting Area
- (🐢) Turtle Nesting
- (💧) Water Intake
- (🌳) Wildlife Refuge/Nature Reserve
- (🌳) National Park
- (🌳) NERR
- Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



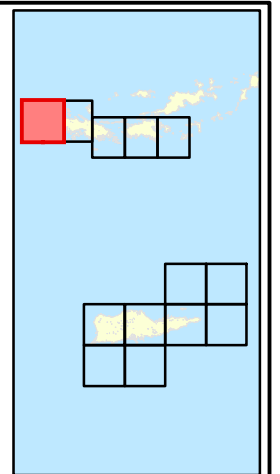
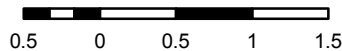
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Name: BOTANY BAY AND WEST CAY

Site ID:

A538

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 29.999" N

Longitude (DMS): 65° 3' 0.000" W

County: St. Thomas

Latitude (DD): 18.35833299

Longitude (DD): -65.04999999

SCAT Division: St. Thomas County Division 1

ESI Map: VI-4

ESI Name: WESTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18065-C1

QUAD Name: Savana Passage

Managed Area (if applicable): Botany Bay Area of Particular Concern

General Location: West End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: Fine to medium grain sandy beaches (Botany Bay and West Cay Bay), fringing reefs, coral growth on subtidal bedrock along shoreline and deep reefs scattered along shoreline.**Habitat:** Fine to medium grain sandy beaches (Botany Bay and West Cay Bay), fringing reefs, coral growth on subtidal bedrock along shoreline and deep reefs scattered along shoreline.**Wildlife:** Sea turtle nesting and foraging habitat and feeding seabirds.**Threaten/Endangered Species:** Hawksbill, Leatherback and Green sea turtles, Brown Pelicans and Roseate Terns, Acropora.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: To Botany Bay take Route 30 from Charlotte Amalie. Boat: Krum Bay has the closest boat ramp.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2600**Boom Type:****Booming Method:** Deflection**Protection Strategy:** The beaches are naturally protected from the prevailing winds. If threatened deploy 1,800 ft. of diversion boom along Botany Bay and 800 ft. along the beach on West Cay.

Name: SABA ISLAND AND FLAT CAYS

Site ID:

A541

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 18' 47.999" N

Longitude (DMS): 64° 59' 48.001"

County: St. Thomas

Latitude (DD): 18.31333299

Longitude (DD): -64.99666698

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable):

General Location: Charlotte Amalie

CONTACT INFORMATION

Contacts: DPNR/ Fish and Wildlife 775-6762; Judy Pierce Chief of Wildlife 340-777-5611, (340) 773-1082; V.I. State Historic Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources on the North shore of Saba Island. Contact SHPO at the above number.

Habitat: Fine to medium grain sandy beach connecting Saba Island and Turtledove Cay, Seagrass beds in shallow water west of Saba, corals on subtidal bedrock and fringing reefs around Flat Cays.

Wildlife: Sea turtle foraging habitat, Hawksbill Turtle nesting, feeding seabirds and Sooty Tern rookery on Saba, Turtledove and Flat.

Threaten/Endangered Species: Hawksbill and Green sea turtles, Brown Pelican and Roseate Terns on SABA and Flat Cays. Acropora sp.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Krum Bay has the closest boat ramp.

Collection Points:

Area Access: boat/helicopter

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Protection with 800 ft. of diversion boom should be considered under ideal weather conditions.. Conduct open water containment and recovery operations and consider the use of dispersants.



Geographic Response Plan Map: VI-5

65°0'0"W

Map Continued on VI-4



65°0'0"W

Map Continued on VI-6

Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- (⚡) Power Plants
- 🦅 Archaeological Site
- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🪸 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦋 Pelican Nesting Area
- 🌊 Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 Wildlife Refuge/Nature Reserve
- 🌳 National Park
- 🌳 NERR
- 🌳 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



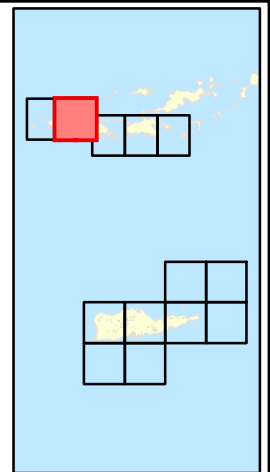
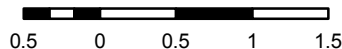
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Name: HANS LOLLIK ISLANDS, PELICAN CAY

Site ID:

A534

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 23' 53.999" N

Longitude (DMS): 64° 54' 24.001"

County: St. Thomas

Latitude (DD): 18.39833298

Longitude (DD): -64.90666702

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-D8

QUAD Name: Charlotte Amalie OE N

Managed Area (if applicable):

General Location: Northside

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605, FAX 775-5706;
NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources on Hans Lollik Island. High probability of encountering historic resources on Little Hans Lollik Island. Contact SHPO at the above number.

Habitat: Fine to medium grain sandy beaches, rocky shoreline, fringing reefs along south and east shore of Hans Lollik, and coral growth on subtidal bedrock along rest of shoreline. Shallow and deep reefs are scattered along the shoreline.

Wildlife: Sea Turtle nesting and foraging habitat, seabirds, coral reefs, Roseate and Royal Tern rookery on Pelican Cay, Sandwich Tern, Laughing Gull rookery on Little Hans Lollik, and Tropic bird and Brown Pelican rookery on Great Hans Lollik.

Threaten/Endangered Species: Hawksbill and Green sea turtles, Brown Pelicans and Roseate Terns, Acropora Corals.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Hull Bay has the closest boat ramp, but the roads to Hull Bay would make the movement of heavy equipment difficult.

Collection Points:

Area Access: boat/helicopter

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: The beach area is naturally protected from prevailing winds. Nearshore protection strategies are not feasible in this area. Diversion booming should be considered when weather permits. Conduct Containment booming and recovery operations operations and consider using dispersants before oil impact the island.



Name: HULL, PALM, DOROTHEA, NELTJEBERG AND PEN BAYS

Site ID:

A535

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 22' 23.999" N

Longitude (DMS): 64° 58' 0.001" W

County: St. Thomas

Latitude (DD): 18.37333298

Longitude (DD): -64.96666700

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable):

General Location: Northside

CONTACT INFORMATION

Contacts: V.I. DPNR/ FISH & WILDLIFE - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric and historic resources in the marked areas. Contact SHPO at the above number.

Habitat: Fine to medium grain sandy beaches, rocky shoreline, fringing reefs in front of most beaches, coral growth on subtidal bedrock and shallow and deep reefs scattered along the shoreline.

Wildlife: Sea turtle nesting and foraging habitat, feeding seabirds and coral reefs.

Threaten/Endangered Species: Hawksbill Leatherback and Green sea turtles, Brown Pelicans and Roseate Terns.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: To Hull and Palms Bays take Route 35 from Charlotte Amalie to Route 37. To Dorothea Bay take Route 40 to 33 to 333. No vehicular access is available to Neltjeberg Bay. To Penn and Mail Bays take Route 33 west to dirt road.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Boat: Hull Bay has the closest boat ramp, but the roads to Hull Bay would make the movement of heavy equipment difficult.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area, however diversion booming should be considered. Conduct containment booming and recovery operations before oil impacts the shore.



Name: INNER AND OUTER BRASS ISLANDS

Site ID:

A536

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 23' 17.999" N

Longitude (DMS): 64° 58' 18.001"

County: St. Thomas

Latitude (DD): 18.38833301

Longitude (DD): -64.97166701

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-D8

QUAD Name: Charlotte Amalie OE N

Managed Area (if applicable):

General Location: Northside

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605, FAX 775-5706;
NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources on Inner Brass Island. Contact SHPO at the above number.

Habitat: Fine to medium grain sandy beaches, fringing reefs on the east side of Inner Brass Island, corals on subtidal bedrock along rocky shoreline and deep reefs offshore.

Wildlife: Sea turtle foraging habitat, Hawksbill turtle nesting, feeding seabirds and coral reefs.

Threaten/Endangered Species: Hawksbill and Green sea turtles and Brown and Roseate Terns, Brown Pelicans.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Hull Bay has the closest boat ramp, but the roads to Hull Bay would make the movement of heavy equipment difficult.

Collection Points:

Area Access: boat/vehicle/helicopter

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not feasible in this area. Conduct containment booming and recovery operations and consider the use of dispersants before the oil impacts the islands. Diversion boom should be considered when weather permits.



GRP - Oil Spill Sensitive Site Report for Sector : San Juan**GRP Map #****VI-5****Name:** CARET, SORGENFRI, HENDRIK, SANTA MARIA, STUMPY AND BORDEAUX**Site ID:****A537****Protection Priority (Season):** Spring: Summer: Fall: Winter: **Site Description:****GEOSPATIAL INFORMATION****Latitude (DMS):** 18° 22' 5.999" N**Longitude (DMS):** 64° 59' 30.001"**County:** St. Thomas**Latitude (DD):** 18.36833301**Longitude (DD):** -64.99166701**SCAT Division:** St. Thomas County Division 1**ESI Map:** VI-5**ESI Name:** CENTRAL ST THOMAS, V.I.**NOAA Chart:** 25641**CHART Name:** VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX**USGS Quad:** 18064-C8**QUAD Name:** Charlotte Amalie**Managed Area (if applicable):****General Location:** West End**CONTACT INFORMATION****Contacts:** V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537**RESOURCES AT RISK INFORMATION****Shoreline Type:** High probability of encountering prehistoric resources in marked areas. Contact SHPO at the above number.**Habitat:** Fine to medium grain sandy beaches, rocky shoreline, fringing reefs, coral growth on subtidal bedrock along shoreline and deep reefs scattered along the shoreline.**Wildlife:** Sea turtle nesting and foraging habitat and feeding seabirds.**Threaten/Endangered Species:** Hawksbill, Green and Leatherback sea turtles, Brown Pelicans and Roseate Terns, Acropora corals on nearshore reefs.**Socio-Economic Resources:** None reported**RESPONSE CONSIDERATIONS****Staging Area:** Vehicle: To Caret, Sorgenfi and Hendrik Bays, take route 33 from Charlotte Amalie. To Santa Maria, Stumpy and Bordeaux Bays, take route 30 from Charlotte Amalie.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Boat: Hull Bay has the closest boat ramp, but the roads to Hull Bay would make the movement of heavy equipment difficult.**PROTECTION STRATEGY INFORMATION****Tidal Range (FT):****Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** The beaches are very small and are naturally protected from the prevailing easterly winds. Winds from the west would only occur during a storm. Consider deploying wildlife control measures to protect the birds.

Name: MANDAHL BAY

Site ID:

A539

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 54.000" N

Longitude (DMS): 64° 53' 53.999"

County: St. Thomas

Latitude (DD): 18.36500000

Longitude (DD): -64.89833300

SCAT Division: St. Thomas County Division 1

ESI Map: VI-6

ESI Name: EASTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): Mandahl Bay Area of Particular Concern

General Location: Northside

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - (340) 774-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in marked areas. Contact SHPO at the above number.

Habitat: Fine to medium grained sandy beach, coral growth on subtidal bedrock, deep reefs scattered along shoreline and sheltered mangroves.

Wildlife: Sea turtle nesting and foraging habitat, feeding seabirds and coral reefs.

Threaten/Endangered Species: Hawksbill and Green sea turtles and Brown Pelicans, Acropora.

Socio-Economic Resources: Recreational area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Route 38 from Charlotte Amalie to Route 42 and then onto the Mandahl Beach Road and past the Bali Hai Hotel. Boat: A boat ramp is located at the salt pond.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 600

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 600 ft. of diversion boom, or construct a dam across the mouth of Salt Pond.



Name: SABA ISLAND AND FLAT CAYS

Site ID:

A541

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 18' 47.999" N

Longitude (DMS): 64° 59' 48.001"

County: St. Thomas

Latitude (DD): 18.31333299

Longitude (DD): -64.99666698

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable):

General Location: Charlotte Amalie

CONTACT INFORMATION

Contacts: DPNR/ Fish and Wildlife 775-6762; Judy Pierce Chief of Wildlife 340-777-5611, (340) 773-1082; V.I. State Historic Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources on the North shore of Saba Island. Contact SHPO at the above number.

Habitat: Fine to medium grain sandy beach connecting Saba Island and Turtledove Cay, Seagrass beds in shallow water west of Saba, corals on subtidal bedrock and fringing reefs around Flat Cays.

Wildlife: Sea turtle foraging habitat, Hawksbill Turtle nesting, feeding seabirds and Sooty Tern rookery on Saba, Turtledove and Flat.

Threaten/Endangered Species: Hawksbill and Green sea turtles, Brown Pelican and Roseate Terns on SABA and Flat Cays. Acropora sp.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Krum Bay has the closest boat ramp.

Collection Points:

Area Access: boat/helicopter

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Protection with 800 ft. of diversion boom should be considered under ideal weather conditions.. Conduct open water containment and recovery operations and consider the use of dispersants.



Name: V.I. WAPA WATER INTAKE

Site ID:

A544

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 36.001" N

Longitude (DMS): 64° 57' 36.000"

County: St. Thomas

Latitude (DD): 18.32666702

Longitude (DD): -64.95999999

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): St. Thomas Harbor & Waterfront Area of Particular Concern

General Location: Water Island

CONTACT INFORMATION

Contacts: V.I. WAPA - (340) 774-3552; V.I. DPNR - (340) 773-1082; V.I. State Historic Preservation Office (SHPO) - (340) 774-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in the marked areas. Contact SHPO at the above number.

Habitat: Commercial waterfront and water intake to V.I. WAPA's desalinization plant.

Wildlife: None reported.

Threaten/Endangered Species: None reported.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Easy access is available throughout the bay area. Aircraft: Facility is near the Harry S. Truman Airport.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources: AVAILABLE ON SITE RESOURCE: See VI WAPA oil spill plan (SJ007).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 200

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 200 ft. diversion boom across the water intake. Deploy 500 ft of exclusion boom across the entrance to bay.



Name: BREWERS BAY

Site ID:

A545

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 35.999" N

Longitude (DMS): 64° 58' 48.000"

County: St. Thomas

Latitude (DD): 18.34333300

Longitude (DD): -64.97999999

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable):

General Location: West End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 773-1082; V.I. State Historic Preservation Office (SHPO) - (340) 773-1082, - FAX 775-5706; U.V.I./Physical Plant 693-1510; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering historical resources in the marked area of Brewers Bay. Contact SHPO at the above numbers.

Habitat: Sandy beaches.

Wildlife: None reported.

Threaten/Endangered Species: Brown Pelican. Green turtle feeding.

Socio-Economic Resources: Popular recreational beach.

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Easy access is available throughout the bay area. Large vessels operating in the vicinity of the airport runway should coordinate operations with the airport traffic control tower. Aircraft: Area is near Harry S. Truman Airport.

Collection Points:

Area Access: boat/helicopter/vehicle/aircraft

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3500

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 3,500 ft. of exclusion boom between the airport and Black Point. 10, 12, 6.



Name: LINDBERG BAY

Site ID:

A546

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 6.000" N

Longitude (DMS): 64° 58' 0.001" W

County: St. Thomas

Latitude (DD): 18.33499999

Longitude (DD): -64.96666700

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable):

General Location: Charlotte Amalie

CONTACT INFORMATION

Contacts: Emerald Beach Resort - (340) 777-8800; V.I. DPNR - (340) 774-3320; ESSO Oil - (340) 774-6044; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: None reported.**Habitat:** Fine grain sandy beach, rocky shore and riprap.**Wildlife:** Feeding seabirds, feeding green turtles.**Threaten/Endangered Species:** Brown Pelicans**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle & Boat: Easy access is available throughout the bay area. Aircraft: Area is near Harry S. Truman Airport.**Collection Points:****Area Access:** aircraft/boat/helicopter/vehicle**Spill Risk:****Response Resources:** AVAILABLE ON SITE RESOURCE: See V.I. WAPA's oil spill plan, TEXACO's oil spill plan and ESSO's oil spill plan. See facility info update.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 3000**Boom Type:****Booming Method:** Deflection**Protection Strategy:** Deploy 3,000 ft. of diversion boom across the mouth of the bay. Conduct containment booming and recovery before oil enters the bay.

Name: CROWN BAY (CRUISE SHIPS AND MARINAS)

Site ID:

A547

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 48.000" N

Longitude (DMS): 64° 57' 0.000" W

County: St. Thomas

Latitude (DD): 18.32999998

Longitude (DD): -64.95000002

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): St. Thomas Harbor & Waterfront Area of Particular Concern

General Location: Water Island

CONTACT INFORMATION

Contacts: V.I. Ports Authority - (340) 774-2250 or 774-2333; TEXACO Oil - (340) 774-3139; V.I. DPNR - (340) 775-6762; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Commercial waterfront, riprap, cruise ships and marinas.

Wildlife: None reported.

Threaten/Endangered Species: Brown Pelicans

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Easy access is available throughout the bay area. Boat: A 40 ft. wide boat ramp is located at Crown Bay Marina. Aircraft: The area is near the Harry S. Truman Airport.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources: AVAILABLE ON SITE RESOURCE: See V.I. WAPA's oil spill plan , Chevron/TEXACO's oil spill plan and total oil spill plan. Yacht Haven Grand/ Crown Bay Marina.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3000

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 3,000 ft. diversion boom around the cruise ships and the openings to the marinas. Notify the ships and advise them to use streams of water to deflect the oil away from the vessels. . Conduct containment booming and recovery operations before the oil enters the bay.



Name: LONG BAY (CRUISE SHIPS AND MARINA) Yacht Haven Grande

Site ID:

A548

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 17.999" N

Longitude (DMS): 64° 55' 41.999"

County: St. Thomas

Latitude (DD): 18.33833299

Longitude (DD): -64.92833301

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): St. Thomas Harbor & Waterfront Area of Particular Concern

General Location: Water Island

CONTACT INFORMATION

Contacts: V.I. Ports Authority - (340) 774-2250; V.I. DPNR - (340) 773-1082; V.I. State Historic Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706 ; The West Indian Company Limited 774-1780 776-4785 fax. Need 24hr number; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources on the Southeast shore of Long Bay. Contact SHPO at the above numbers.

Habitat: Commercial waterfront, cruise ships and marinas.

Wildlife: None reported.

Threaten/Endangered Species: Brown Pelicans.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Vehicles & Boats: Easy access is available throughout the bay area. Aircraft: This area is near the Harry S. Truman Airport.

Collection Points:

Area Access: aircraft/boat/helicopter/vehicle

Spill Risk:

Response Resources: Water intake facilities: Frenchmen's Reef (340-776-8500 and Limetree Resort(340-775-1800). Yacht haven Marina. Land reclamation project taking place on eastern most end of Long Bay., See V.I. WAPA's oil spill plan (SJ007), TEXACO's oil spill plan (SJ013) and ESSO's oil spill plan (SJ015).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 3000

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 3,000 ft. diversion boom around the cruise ships and openings to the marinas. Notify cruise ships and advise them to deflect oil away from the vessels using streams of water. Conduct containment booming and recovery operations before oil enters bay. Truck collection at public access boat dock in NW corner of wico dock.



Name: MAGENS BAYS

Site ID:

B542

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 22' 5.531" N

Longitude (DMS): 64° 55' 56.164"

County: St. Thomas

Latitude (DD): 18.36820307

Longitude (DD): -64.93226784

SCAT Division: St. Thomas County Division 1

ESI Map: VI-5

ESI Name: CENTRAL ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): St. Thomas Harbor & Waterfront Area of Particular Concern

General Location: Water Island

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; V.I. State Historic - Magens Bay Authority - (340) 777-6300 ; Preservation Office (SHPO) - FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in marked areas. Contact SHPO at the above number.

Habitat: Fine to medium grain sandy beaches (Magens, Little Magens & other pocket beaches), rocky shoreline, seagrass beds in shallow water, small fringing coral reefs between beaches, & corals on subtidal bedrock along rocky shoreline.

Wildlife: Sea turtle foraging and nesting habitat and feeding seabirds.

Threaten/Endangered Species: Hawksbill, Leatherback and Green sea turtles and Brown pelicans.

Socio-Economic Resources: Popular recreation area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Route 35 from Charlotte Amalie. A road runs almost all the way out to the end of Picara Point. Boat: The closest boat ramp is at Hull Bay.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1800

Boom Type:

Booming Method: Deflection

Protection Strategy: Magens Bay is a naturally well protected with the prevailing winds blowing out of the bay. If threatened, deploy 1,800 ft. of diversion boom along the beach and conduct containment



Geographic Response Plan Map: VI-6

64°52'30"W

18°22'30"N

Map Continued on VI-5

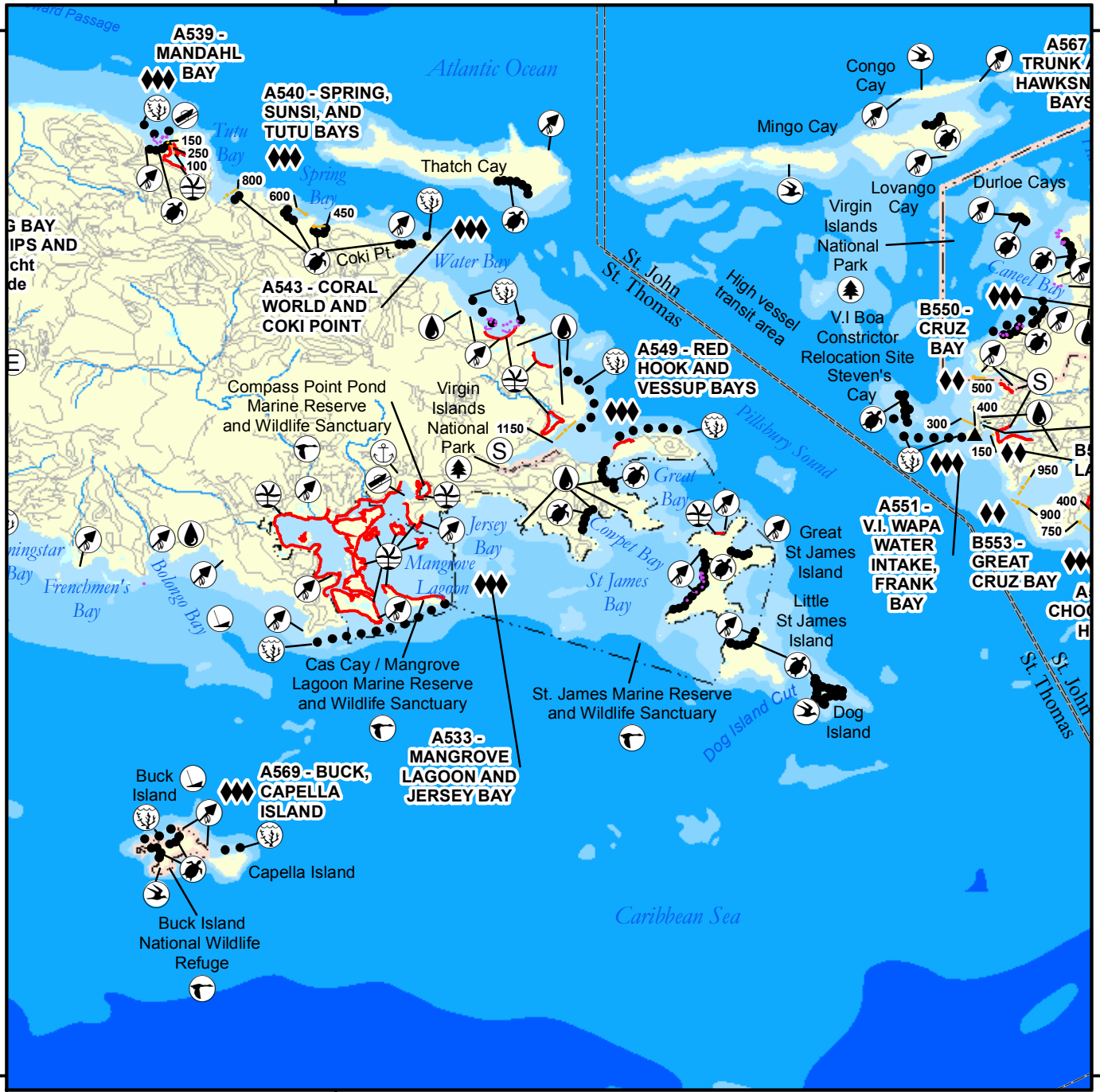
18°15'0"N

64°52'30"W

18°22'30"N

Map Continued on VI-7

18°15'0"N



Environmentally Sensitive Areas

Priority of Protection - Summer

- ◆◆◆ A - Protect First - Highest Priority
- ◆◆ B - Protect after A Areas - Medium Priority
- ◆ C - Protect after B Areas - Lower Priority
- ▲ Natural Collection Areas
- ▲ Collection/Recovery Points
- General Booming Strategy Length in Feet
- (S) Staging Areas
- (R) Oil Spill Risk Locations
- (E) Equipment Sites
- ⚡ Power Plants

- 🏛 Archaeological Site
- 🐦 Bird Sanctuary
- 🚤 Boat Ramp
- 🛥 Coast Guard
- 🌊 Coral Reef
- 🏰 Historical Site
- 🐬 Manatees
- 🌿 Mangrove
- ⚓ Marina
- 🦅 Pelican Nesting Area
- 🌟 Phosphorescent Bay
- 🐦 Sea Bird Nesting Area
- 🐢 Turtle Nesting
- 💧 Water Intake
- 🌳 Wildlife Refuge/Nature Reserve
- 🌳 National Park
- 🌳 NERR
- 🌿 Mangroves
- Coral Reef
- Turtle Nesting

Acropora Priority Sites

- Level A - Protect First
- Level B - Protect Second
- State Managed Areas
- Federal Managed Areas
- PR Municipalities/USVI Districts



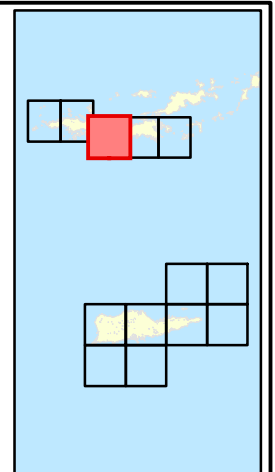
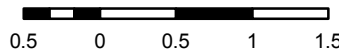
US Coast Guard
Sector San Juan



Fish and Wildlife
Research Institute



Miles



Name: MANGROVE LAGOON AND JERSEY BAY

Site ID:

A533

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 17' 42.000" N

Longitude (DMS): 64° 52' 30.000"

County: St. Thomas

Latitude (DD): 18.29500000

Longitude (DD): -64.87500000

SCAT Division: St. Thomas County Division 1

ESI Map: VI-6

ESI Name: EASTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): Mangrove Lagoon / Benner Bay Area of Particular Concern

General Location: Southside

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 776-8605, FAX 775-5706;
DPNR-DWF Fish & Wildlife - 340-775-6762; Roberto Tappia Director DPNR- Environmental Enforcement 24hr cell 340-643-5604;
NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources at numerous sites. Contact SHPO at the above number.**Habitat:** Exposed mangroves with numerous small to large mangroves, seagrass beds in one to ten feet of water, and fringing coral reefs along seaward sides of Cas Cay, Patricia Cay and Long Point.**Wildlife:** Sea turtle foraging habitat, important fish nursery, seabirds and shark breeding habitat.**Threaten/Endangered Species:** Hawksbill and Green sea turtles, Brown Pelicans and Mangroves protected under VI law. Acropora corals.**Socio-Economic Resources:** Several marinas and commercial waterfront.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Route 30 from Charlotte Amalie to Route 32. Access is available through the marinas. Boat: Use the marina launching facilities at Compass Pt., Independent Boat Yard, Tropical Marine, or Holmberg's Marina.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:** Water intake facilities of Watergate Villa (340-775-2270), Secret Harbor beach Resort (340-775-6590), Cowpet Beach Resort (340-775-1000) and Ritz Carlton (340-775-3333). Check #

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** Containment booming and recovery operations before oil reaches shore is the best method of protecting this area. Consider using offshore dispersants and the pre-application of a wetting agent. Deploy wildlife control measures to protect birds. The water on the south side of the mangroves between Long point and Cas Cay is often too rough to deploy boom. Consider deploying 3,500 ft of diversion boom from Rotto Cay to Cas Cay. Currents: Flow is into Mangrove lagoon through area between Cas Cay & Bovomi Cay & over reef between Cas Cay & Patricia Cay, then through back lagoon & up channel between Bovomi Cay & St. Thomas then out past Rotto Cay to ocean.

Name: MANDAHL BAY

Site ID:

A539

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 54.000" N

Longitude (DMS): 64° 53' 53.999"

County: St. Thomas

Latitude (DD): 18.36500000

Longitude (DD): -64.89833300

SCAT Division: St. Thomas County Division 1

ESI Map: VI-6

ESI Name: EASTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): Mandahl Bay Area of Particular Concern

General Location: Northside

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - (340) 774-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in marked areas. Contact SHPO at the above number.

Habitat: Fine to medium grained sandy beach, coral growth on subtidal bedrock, deep reefs scattered along shoreline and sheltered mangroves.

Wildlife: Sea turtle nesting and foraging habitat, feeding seabirds and coral reefs.

Threaten/Endangered Species: Hawksbill and Green sea turtles and Brown Pelicans, Acropora.

Socio-Economic Resources: Recreational area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Route 38 from Charlotte Amalie to Route 42 and then onto the Mandahl Beach Road and past the Bali Hai Hotel. Boat: A boat ramp is located at the salt pond.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 600

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 600 ft. of diversion boom, or construct a dam across the mouth of Salt Pond.



Name: SPRING, SUNSI, AND TUTU BAYS

Site ID:

A540

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 24.001" N

Longitude (DMS): 64° 52' 48.000"

County: St. Thomas

Latitude (DD): 18.35666699

Longitude (DD): -64.88000001

SCAT Division: St. Thomas County Division 1

ESI Map: VI-6

ESI Name: EASTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable):

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320 Commissioner; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Fine to medium grained sandy beaches, rocky shoreline, coral growth on subtidal bedrock and deep reefs scattered along the shoreline.**Wildlife:** Sea turtle nesting and foraging habitat and feeding seabirds.**Threaten/Endangered Species:** Hawksbill, Leatherback and Green sea turtles and Brown Pelicans.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: To Spring Bay take Route 38 from Charlotte Amalie to Route 388. To Sunsi and Tutu Bays take Route 38 to Route 42.**Collection Points:****Area Access:** vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2400**Boom Type:****Booming Method:** Deflection**Protection Strategy:** Deploy 800 ft. of diversion boom across Spring and Tutu bays, and 1,600 ft. of diversion boom across Sunsi Bay.

Name: CORAL WORLD AND COKI POINT

Site ID:

A543

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 0.000" N

Longitude (DMS): 64° 51' 47.999"

County: St. Thomas

Latitude (DD): 18.34999997

Longitude (DD): -64.86333297

SCAT Division: St. Thomas County Division 1

ESI Map: VI-6

ESI Name: EASTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable):

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; Coral World - (340) 775-1555; V.I. State Historic Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources at Coki Point. Contact SHPO at the above number.

Habitat: Fine grain sandy beach, riprap, rocky shore and water intakes to Coral World.

Wildlife: Coral World and reef inhabitants.

Threaten/Endangered Species: Brown Pelican, Acropora corals, Hawksbill, Leatherback nesting.

Socio-Economic Resources: Popular recreation area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take route 38 from Charlotte Amalie to Route 388. Boat: Small boats may be launched from Coral World.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 1,000 ft. diversion boom around Coral World. Currents in the area may prevent the use of stationary booming. Containment booming and dispersant use should be considered offshore.



Name: RED HOOK AND VESSUP BAYS

Site ID:

A549

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 30.000" N

Longitude (DMS): 64° 51' 0.000" W

County: St. Thomas

Latitude (DD): 18.32500001

Longitude (DD): -64.84999999

SCAT Division: St. Thomas County Division 1

ESI Map: VI-6

ESI Name: EASTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Vessup Bay / East End Area of Particular Concern

General Location: East End

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320, (340) 773-1082; National Park Service - (340) 776-6201 x242; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Exposed mangroves, seagrass beds in one to ten feet of water, fringing coral reefs around Cabrita and Red Hook points and fine to medium gain sandy beaches along the south side of the bay.

Wildlife: Sea turtle nesting and foraging habitat, fishery nursery, feeding seabirds and shark breeding habitat.

Threaten/Endangered Species: Hawksbill and Green sea turtles, Brown Pelicans and Mangroves protected under V.I. law.

Socio-Economic Resources: Ferry terminal to St. John marina, Commercial and recreational area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Take Route 30 from Charlotte Amalie to Route 32. Access is available through the marinas, Port Authority ferry dock, NPS dock and beach roads. Boat: Small boats may be launched to the east of the barge ramp near the ferry dock.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Water intake facilities of Stouffers (1-800-468-3571), Sugar Bay Plantation Resort (340-777-7100), Sapphire Beach Resort (340-775-6100), Bayside Resort, American Yacht Charters, K and H Condominiums.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 1,000 ft. exclusion boom across the bay to protect inner mangroves and docks. Construct berms across openings to the sheltered mangrove areas on the north side of the bay and near Cabrita Hill.



Name: V.I. WAPA WATER INTAKE, FRANK BAY

Site ID:

A551

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 41.999" N

Longitude (DMS): 64° 48' 0.000" W

County: St. John

Latitude (DD): 18.32833297

Longitude (DD): -64.79999998

SCAT Division: St. John County Division 1

ESI Map: VI-6

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Cruz Bay / Enighed Pond Area of Particular Concern

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: V.I. WAPA - (340) 773-4379; V.I. DPNR - Director Lorna Thomas - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric and historic resources in the marked areas. Contact SHPO at the above number.

Habitat: Water intake at V.I. WAPA plant. The intake is under approximately 14 ft. of water and 200 yards from shore. Fine and medium grained sandy beach and shallow sea grass are along the shore.

Wildlife: None reported.

Threaten/Endangered Species: Brown Pelican.

Socio-Economic Resources: Recreational beach, coral reef.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access is available through V.I. WAPA. Boat: No boat ramps, however the area is easy to access by boats arriving from seaward.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: WAPA desalinization plant intake. AVAILABLE ON SITE RESOURCES: See V.I. spill response plan (SJ007).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Due to the depth of the intake below the surface of the water the intake is protected from floating oil. If currents low, could use diversion boom off Moravian Pt.



Name: CANEEL BAY

Site ID:

A568

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 35.999" N

Longitude (DMS): 64° 47' 30.001"

County: St. John

Latitude (DD): 18.34333300

Longitude (DD): -64.79166701

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; U.S. FWS - NWR Manager - (340) 774-3320; (340) 776-6201 x242; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 773-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in the entire Caneel Bay area. Contact SHPO/NPS at the above numbers.

Habitat: Sandy and cobble beaches, sea grass and rocky shores, coral reefs.

Wildlife: None reported.

Threaten/Endangered Species: Brown pelican, sea turtles, Acropora corals.

Socio-Economic Resources: Very popular resort and beaches, coral reef.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle & Boat: Good access for both vehicles and boats. Caneel Bay resorts operates a ferry boat out of Caneel Bay. Close to Cruz Bay boat ramp.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 800

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: This area is naturally well protected. Consider deploying 800 ft. of exclusion boom using the numerous boat moorings as anchors.



Name: BUCK, CAPELLA ISLAND

Site ID:

A569

Protection Priority (Season): Spring: ☐ Summer: ☐ Fall: ☐ Winter: ☐

Site Description: USFWS National Wildlife Refuge of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 16' 30.000" N

Longitude (DMS): 64° 53' 30.001"

County: St. Thomas

Latitude (DD): 18.27500000

Longitude (DD): -64.89166699

SCAT Division: St. Thomas County Division 1

ESI Map: VI-6

ESI Name: EASTERN ST THOMAS, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C8

QUAD Name: Charlotte Amalie

Managed Area (if applicable): Buck Island National Wildlife Refuge

General Location: Southside

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; U.S. FWS - NWR Manager - (340) 851-7297; USFWS- Refuges Mike Evans (340) 773-4554; V.I. State Historic - Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources on the East coast of Buck Island and the West coast of Capella Island. Contact SHPO at the above number.

Habitat: Seagrass beds in shallow water in northern bay of Buck Island, corals on subtidal bedrock along shoreline and deep reefs around islands.

Wildlife: Sea turtle nesting and foraging habitat, fishery nursery and feeding seabirds. Seabird rookery Buck Island from May-Aug. Acropora sp- corals throughout coastal environment.

Threaten/Endangered Species: Hawksbill and Green sea turtles, Brown Pelicans, Acropora corals.

Socio-Economic Resources: None reported

RESPONSE CONSIDERATIONS

Staging Area: Boat: Krum bay is the closest boat launching area. Boat access onto the island should be done at the bay on the southwestern side.

Collection Points:

Area Access: boat/helicopter

Spill Risk:

Response Resources: None

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not feasible in this area. Conduct containment booming and recovery operations. Consider using dispersants before oil impacts island.? check coral



Name: CRUZ BAY

Site ID:

B550

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 0.000" N

Longitude (DMS): 64° 48' 0.000" W

County: St. John

Latitude (DD): 18.33333298

Longitude (DD): -64.79999998

SCAT Division: St. John County Division 1

ESI Map: VI-6

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201 x242 (8am-5pm) or Resource Management (340) 693-8950 x 224; V.I. DPNR - Director - (340) 774-3320; V.I. Ports Auth. - (340) 774-2250; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: AVAILABLE ON SITE RESOURCES: None. Some at park ramp USCG Trailer.**Habitat:** Exposed mangroves, sandy beach, shallow coral and docks.**Wildlife:** Sea birds.**Threaten/Endangered Species:** Sea turtles and Brown Pelicans.**Socio-Economic Resources:** Commercial and recreational area, designated mooring area, commercial ferry and barge dock.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available at Cruz Bay. Boat: A boat ramp is located at the Customs dock (VI Port Authority) and boat ramp (NPS) in Cruz Bay. Helicopter: Boat ramp is located on the north side of Cruz Bay. Ball field can be used as staging area.

Collection Points:**Area Access:** boat/helicopter/vehicle**Spill Risk:**

Response Resources: Cruz bay is the main port for goods and passengers entering or departing St. John. Staging: The boat ramp could be utilized as a staging area.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2000**Boom Type:****Booming Method:** Deflection

Protection Strategy: This area is naturally protected from prevailing winds. Consider deploying 2,000 ft. of diversion boom in the bay, but do not block the channel.



Name: GREAT CRUZ BAY

Site ID:

B553

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 18.001" N

Longitude (DMS): 64° 47' 17.999"

County: St. John

Latitude (DD): 18.32166701

Longitude (DD): -64.78833300

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Chocolate Hole / Great Cruz Bay Area of Particular Concern

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: V.I. DPNR - Director - (340) 774-3320; Hyatt Regency Hotel - (340) 776-7171; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Small colony of mangroves and sandy beach.

Wildlife: None reported.

Threaten/Endangered Species: Brown Pelican and Sea turtles.

Socio-Economic Resources:

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Roads lead to the bay. Boat: A Boat ramp is located at the Hyatt Regency Virgin Grande Hotel (340) 776-7171. Several private small docks are in the bay along with numerous designated moorings.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Major resort.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1500

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 1,500 ft. of diversion boom from Blasbaig Point.



Geographic Response Plan Map: VI-7

64°45'0"W

18°22'30"N

18°22'30"N

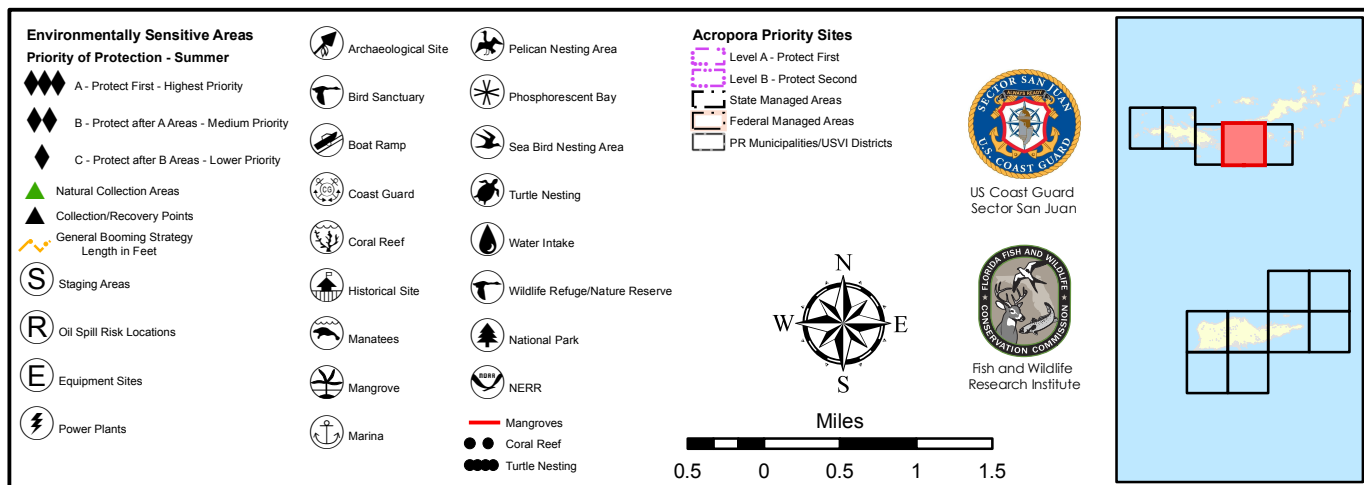
Map Continued on VI-6

Map Continued on VI-8

18°15'0"N

18°15'0"N

64°45'0"W



Name: CINNAMON AND PETER BAYS

Site ID:

A56

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 15.559" N

Longitude (DMS): 64° 45' 39.120"

County: St. John

Latitude (DD): 18.35432198

Longitude (DD): -64.76086656

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Charlotte Amalie

Managed Area (if applicable): Magens Bay Watershed Area of Particular Concern

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 775-6238; V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Elizabeth Righter - (340) 774-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:**Habitat:** Coral reefs, sandy and cobble beaches, rocky shores, a few mangroves, and sea grass beds.**Wildlife:** Sea turtles feeding and nesting.**Threaten/Endangered Species:** Brown Pelican and sea turtles.**Socio-Economic Resources:**

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Vehicle access is available. Boat: Boat access is only available from seaward.**Collection Points:****Area Access:** vehicle**Spill Risk:****Response Resources:** Private land is at Peter Bay

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 400**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 400 ft. exclusion boom around the mangroves.

Name: V.I. WAPA WATER INTAKE, FRANK BAY

Site ID:

A551

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 41.999" N

Longitude (DMS): 64° 48' 0.000" W

County: St. John

Latitude (DD): 18.32833297

Longitude (DD): -64.79999998

SCAT Division: St. John County Division 1

ESI Map: VI-6

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Cruz Bay / Enighed Pond Area of Particular Concern

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: V.I. WAPA - (340) 773-4379; V.I. DPNR - Director Lorna Thomas - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric and historic resources in the marked areas. Contact SHPO at the above number.

Habitat: Water intake at V.I. WAPA plant. The intake is under approximately 14 ft. of water and 200 yards from shore. Fine and medium grained sandy beach and shallow sea grass are along the shore.

Wildlife: None reported.

Threaten/Endangered Species: Brown Pelican.

Socio-Economic Resources: Recreational beach, coral reef.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Direct access is available through V.I. WAPA. Boat: No boat ramps, however the area is easy to access by boats arriving from seaward.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: WAPA desalinization plant intake. AVAILABLE ON SITE RESOURCES: See V.I. spill response plan (SJ007).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Due to the depth of the intake below the surface of the water the intake is protected from floating oil. If currents low, could use diversion boom off Moravian Pt.



Name: CHOCOLATE HOLE

Site ID:

A554

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 18' 42.001" N

Longitude (DMS): 64° 47' 12.001"

County: St. John

Latitude (DD): 18.31166699

Longitude (DD): -64.78666700

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Chocolate Hole, Great Cruz Bay Area of Particular Concern

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in the marked areas. Contact SHPO at the above number.

Habitat: Sheltered mangroves, sandy and cobble beaches.

Wildlife: Sea grass and sea turtles.

Threaten/Endangered Species: Brown Pelican. Green and Hawksbill turtles, Acropora.

Socio-Economic Resources: Numerous private moorings.

RESPONSE CONSIDERATIONS

Staging Area: Boats: No boat access from shore, however the bay has numerous moorings.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources: Mangroves located around pond behind beach. man-made opening to bay would allow access for oil to pond. Major resort under construction(Pond Bay Club) behind beach and around pond.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 1,000 ft. exclusion boom across the bay's opening. Exclusion booming of the lagoon's access inside the bay will be required if the bay can not be protected.



Name: FISH BAY

Site ID:

A555

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 0.001" N

Longitude (DMS): 64° 45' 54.000"

County: St. John

Latitude (DD): 18.31666700

Longitude (DD): -64.76500000

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable):

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201 x242; V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas, (340) 773-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in the entire Fish Bay area. contact SHPO at the above number.

Habitat: Rocky shores, sandy and cobble beaches, mangroves.

Wildlife: Red mangroves and shallow sea grass, conch.

Threaten/Endangered Species: Brown Pelican and sea turtles.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Road access is available. Boat: A dock is located on the east side of the bay. Private.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1500

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 1,500 ft. exclusion boom across the opening of the bay. Consider using offshore dispersants and the pre-application of a wetting agent such as Corexit 9580 on the mangroves.



Name: COCOLOBA CAY

Site ID:

A556

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 5.999" N

Longitude (DMS): 64° 45' 29.999"

County: St. John

Latitude (DD): 18.31833300

Longitude (DD): -64.75833298

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201 x242; V.I. DPNR - Director - (340) 774-3320 Resource mgmt. (340) 693-8950 x 224; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: None reported.**Habitat:** Very high energy shallow coral cobble shore, rocky points and sandy beaches.**Wildlife:** This beach supports one of the highest density sea turtle nesting areas on St. John. Shallow fringing coral reef.**Threaten/Endangered Species:** Sea turtles, Acropora corals.**Socio-Economic Resources:** None reported.

RESPONSE CONSIDERATIONS

Staging Area: No access is available by boat or vehicle.**Collection Points:****Area Access:****Spill Risk:****Response Resources:** 1/8 mile foot trail access from a 4WD road.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):****Boom Type:****Booming Method:****Protection Strategy:** The heavy surf prevents the use of nearshore protection strategies. Protect area using offshore containment and recovery operations.

Name: REEF BAY

Site ID:

A557

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 12.000" N

Longitude (DMS): 64° 44' 53.999"

County: St. John

Latitude (DD): 18.32000000

Longitude (DD): -64.74833301

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C6

QUAD Name: Coral Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201 x242; V.I. DPNR - (340) 774-3320; V.I. State Historic - Lorna Thomas Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in the marked area. Contact SHPO at the above number.

Habitat: Sandy beaches, shallow fringing coral reefs, rocky points and sea grass. Mangroves around pond area behind beach at Reef Bay.

Wildlife: Sea birds and sea turtles. This is a major turtle nesting site on St. Johns.

Threaten/Endangered Species: Brown pelican, Hawksbill Turtle nesting and Green Turtle feeding area. Acropora corals.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boats: Two moorings in bay. Small boats can be beached at two small beaches.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources: Western Reef Bay can be accessed by a short, steep foot trail that originates from a public 2WD road. Eastern Reef Bay may be accessed on land by foot trail or 4x4 ATV from Lameshur Bay 1.5 miles(1/2 of that can be made by 4WD vehicle).

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection: .

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: Nearshore protection strategies are not normally feasible in this area. Pretreat mangroves. Cascade booms off White Cliffs to protect inshore fringing reefs.



Name: EUROPA, LITTLE LAMESHUR, AND GREAT LAMESHUR BAYS

Site ID:

A558

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 18' 42.001" N

Longitude (DMS): 64° 43' 48.000"

County: St. John

Latitude (DD): 18.31166699

Longitude (DD): -64.73000002

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C6

QUAD Name: Coral Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - Resource Mgmt. (340) 776-6201 x224; V.I. DPNR - (340) 776-6201 x224; V.I. State Historic Preservation Office (SHPO) - (340) 693-8950 x224, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering historical resources in the marked area. Contact SHPO at the above number.

Habitat: Mangroves, rocky shores and sandy beaches.

Wildlife: Sea birds, green sea turtles, nesting Hawksbill sea turtles. Large Coral Reef Eastern side as enter bay.

Threaten/Endangered Species: Brown pelican and sea turtles, Acropora corals.

Socio-Economic Resources: Historic archeological site.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Four wheel drive is required on the road to Lameshur Bay. Boat: A boat dock is at the west end of Great Lameshur Bay. Moorings on the east end can accommodate vessels up to 60 feet.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: This area is considered the "core of the V.I. Biosphere Reserve". It is pristine and a major research area.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1600

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 800 ft. exclusion boom to protect mangroves in Little Lameshur Bay, and 800 ft. exclusion boom to protect mangroves in Great Lameshur Bay. Conduct containment booming and open water recovery before oil enters bays. Pretreat mangroves.



Name: CORAL HARBOR AND HURRICANE HOLE

Site ID:

A560

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 17.999" N

Longitude (DMS): 64° 42' 47.999"

County: St. John

Latitude (DD): 18.33833299

Longitude (DD): -64.71333298

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C6

QUAD Name: Coral Bay

Managed Area (if applicable): Coral Bay Area of Particular Concern

General Location: Coral Bay

CONTACT INFORMATION

Contacts: V.I. DPNR - Director - (340) 774-3320; V.I. State Historic - Preservation Office (SHPO) - (340) 776-8605, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources at depths, not shoreline/shallow in numerous areas. Contact SHPO at the above number.

Habitat: Sheltered and exposed mangroves, a lot of shallow patch corals along all shorelines. Sandy and rocky shoreline and sea grass. Red Mangroves fringe many areas.

Wildlife: Sea birds and mangroves, seagrass.

Threaten/Endangered Species: Brown Pelican and Sea Turtles. Elkhorn and Staghorn year round.

Socio-Economic Resources: Recreational boating area, fishing boats, a small boat yard and designated mooring area.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Road access is available. Boat: A 20 ft. wide boat ramp is located near the boat repair yard in Coral Harbor. Staging: Although congested, Coral Harbor is a good staging area.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Volunteer assistance from boating community and local 501c3-coral bay Community council 340-776-2099.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 4000

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: Deploy 2,000 ft. of exclusion boom across Coral harbor from Penn Pt. to Harbor Pt., and 2,000 ft. of exclusion boom across Hurricane Hole to protect mangroves. Deploy 5,000 ft. of exclusion boom along mangroves on east side of the harbor. Conduct containment booming and open water recovery before oil enters bays. Consider using offshore dispersants, and the pre-application of a wetting agent on the mangroves. Please recognize that Eagle Shore- 5 feet deep is a high risk for site. Charts are inaccurate. Hurricane hole: most pristine mangrove/ juvenile fish nursery habitat remaining in USVI. Many corals on mangrove prop roots.



Name: BROWN BAY

Site ID:

A563

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 22' 0.001" N

Longitude (DMS): 64° 42' 0.000" W

County: St. John

Latitude (DD): 18.36666701

Longitude (DD): -64.70000000

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C6

QUAD Name: Coral Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 775-6238; V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Elizabeth Righter - (340) 774-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering historic resources in the marked areas. Contact SHPO at the above number.

Habitat: Exposed mangroves, medium grain sandy beaches and sea grass. Coral reef or rocky points.

Wildlife: Sea birds and possible sea turtle nesting area. Conch in seagrass.

Threaten/Endangered Species: Brown pelican, sea turtles, Acropora corals.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Boat: Access is by boat only.

Collection Points:

Area Access: boat

Spill Risk:

Response Resources: A 1.5 mile foot trail originating at Leinster Bay provides access, this trail is maintained by NPS.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1000

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 1,000 ft. diversion boom north of the mangroves and across the entrance of the bay. As a secondary strategy funnel oil to sandy beach.



Name: MARY CREEK

Site ID:

A564

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 22' 12.000" N

Longitude (DMS): 64° 44' 0.000" W

County: St. John

Latitude (DD): 18.37000001

Longitude (DD): -64.73333298

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C6

QUAD Name: Coral Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 775-6238; V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Elizabeth Righter - (340) 774-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering cultural resources in the marked areas. Contact SHPO at the above number.

Habitat: Exposed mangroves, sandy and cobble beaches, sea grass, exposed coral reef on the southeast.

Wildlife: Bird nesting area and occasional turtles. Conch.

Threaten/Endangered Species: Brown pelican, Acropora corals.

Socio-Economic Resources: None reported.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Good vehicle access is available on the southern end of Mary Creek. Boat: Good boat access. Staging: The National Park Service has a parking lot here.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Leinster Bay to the east has land access and is a high recreational beach.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 2500

Boom Type:

Booming Method: Deflection

Protection Strategy: If you are unable to boom across the bay's narrow entrance, deploy 2,500 ft. of cascading boom down either side of the creek and divert the oil towards the sandy beach on the creek's western side.



Name: TRUNK AND HAWKSNEST BAYS

Site ID:

A567

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 18.000" N

Longitude (DMS): 64° 46' 41.999"

County: St. John

Latitude (DD): 18.35499998

Longitude (DD): -64.77833298

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201 x224; V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - Elizabeth Righter - (340) 774-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in the entire Trunk and Hawksnest Bay area. Contact SHPO at the above number.

Habitat: Shallow coral reefs, sandy and cobble beaches and rocky shores.

Wildlife: Sea birds, sea turtles.

Threaten/Endangered Species: Brown Pelican and Sea turtle nesting area. Acropora reefs at Hawksnest and other nearshore reefs.

Socio-Economic Resources: Recreational snorkeling area and archeological site. NPS maintained underwater snorkeling trail at Trunk Bay-most popular beach on St.John.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: A paved road leads to both bays. Boat: Boat access is from seaward only. Staging: Hawksnest and Trunk Bay has a parking lot.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: A private beach is on the east side of Hawksnest and a resort beach (Caneel Bay) on the west side. AVAILABLE ON SIT RESOURCES: NPS concession operates snack bar and snorkel rental at Trunk Bay.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT):

Boom Type:

Booming Method:

Protection Strategy: These beaches are normally well protected from the prevailing winds. Use offshore containment and recovery methods. A natural collection point is on the west end of Trunk Bay, at Jumbie Bay but it is difficult to get to due to the steep shore, and shallow reef with narrow channel.



Name: CANEEL BAY

Site ID:

A568

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 35.999" N

Longitude (DMS): 64° 47' 30.001"

County: St. John

Latitude (DD): 18.34333300

Longitude (DD): -64.79166701

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: V.I. DPNR - (340) 774-3320; U.S. FWS - NWR Manager - (340) 774-3320; (340) 776-6201 x242; V.I. State Historic Preservation Office (SHPO) - Lorna Thomas - (340) 773-3320, FAX 775-5706; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in the entire Caneel Bay area. Contact SHPO/NPS at the above numbers.

Habitat: Sandy and cobble beaches, sea grass and rocky shores, coral reefs.

Wildlife: None reported.

Threaten/Endangered Species: Brown pelican, sea turtles, Acropora corals.

Socio-Economic Resources: Very popular resort and beaches, coral reef.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle & Boat: Good access for both vehicles and boats. Caneel Bay resorts operates a ferry boat out of Caneel Bay. Close to Cruz Bay boat ramp.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources:

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 800

Boom Type:

Booming Method: Protection/Exclusion

Protection Strategy: This area is naturally well protected. Consider deploying 800 ft. of exclusion boom using the numerous boat moorings as anchors.



Name: CRUZ BAY

Site ID:

B550

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 20' 0.000" N

Longitude (DMS): 64° 48' 0.000" W

County: St. John

Latitude (DD): 18.33333298

Longitude (DD): -64.79999998

SCAT Division: St. John County Division 1

ESI Map: VI-6

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201 x242 (8am-5pm) or Resource Management (340) 693-8950 x 224; V.I. DPNR - Director - (340) 774-3320; V.I. Ports Auth. - (340) 774-2250; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: AVAILABLE ON SITE RESOURCES: None. Some at park ramp USCG Trailer.**Habitat:** Exposed mangroves, sandy beach, shallow coral and docks.**Wildlife:** Sea birds.**Threaten/Endangered Species:** Sea turtles and Brown Pelicans.**Socio-Economic Resources:** Commercial and recreational area, designated mooring area, commercial ferry and barge dock.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Access is available at Cruz Bay. Boat: A boat ramp is located at the Customs dock (VI Port Authority) and boat ramp (NPS) in Cruz Bay. Helicopter: Boat ramp is located on the north side of Cruz Bay. Ball field can be used as staging area.

Collection Points:**Area Access:** boat/helicopter/vehicle**Spill Risk:**

Response Resources: Cruz bay is the main port for goods and passengers entering or departing St. John. Staging: The boat ramp could be utilized as a staging area.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 2000**Boom Type:****Booming Method:** Deflection

Protection Strategy: This area is naturally protected from prevailing winds. Consider deploying 2,000 ft. of diversion boom in the bay, but do not block the channel.



Name: ENIGHED LAGOON

Site ID:

B552

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 30.000" N

Longitude (DMS): 64° 47' 48.001"

County: St. John

Latitude (DD): 18.32500001

Longitude (DD): -64.79666697

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Cruz Bay / Enighed Pond Area of Particular Concern

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: V.I. DPNR - Director - (340) 774-3320; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: riprap, rocky and sandy beaches. Mangrove shoreline inside pond.

Wildlife: Diving birds.

Threaten/Endangered Species: Brown Pelican.

Socio-Economic Resources: Mangroves

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Vehicle access is available. Boat: No boat ramps are in the area. Boat access from sea is good. Large barge dock. Staging: Large concrete aprons associated with barge ramps. Very good staging area.

Collection Points:**Area Access:** boat/vehicle/helicopter**Spill Risk:****Response Resources:** The large channel for commercial barges into Enighed Lagoon is complete. Departure channel for commuted barges in place- Sewage treatment plant.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 200**Boom Type:****Booming Method:** Protection/Exclusion**Protection Strategy:** Deploy 400 ft. of exclusion boom across channel into the lagoon.

Name: GREAT CRUZ BAY

Site ID:

B553

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description: DPNR Area of Particular Concern

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 19' 18.001" N

Longitude (DMS): 64° 47' 17.999"

County: St. John

Latitude (DD): 18.32166701

Longitude (DD): -64.78833300

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Chocolate Hole / Great Cruz Bay Area of Particular Concern

General Location: Cruz Bay

CONTACT INFORMATION

Contacts: V.I. DPNR - Director - (340) 774-3320; Hyatt Regency Hotel - (340) 776-7171; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type:

Habitat: Small colony of mangroves and sandy beach.

Wildlife: None reported.

Threaten/Endangered Species: Brown Pelican and Sea turtles.

Socio-Economic Resources:

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Roads lead to the bay. Boat: A Boat ramp is located at the Hyatt Regency Virgin Grande Hotel (340) 776-7171. Several private small docks are in the bay along with numerous designated moorings.

Collection Points:

Area Access: boat/vehicle

Spill Risk:

Response Resources: Major resort.

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):

Average Current (KTS):

Ease of Protection:

Min. Boom Length (FT): 1500

Boom Type:

Booming Method: Deflection

Protection Strategy: Deploy 1,500 ft. of diversion boom from Blasbaig Point.



Name: GROOTPAN BAY AND SALTPOND

Site ID:

B559

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 18' 29.999" N

Longitude (DMS): 64° 43' 0.001" W

County: St. John

Latitude (DD): 18.30833298

Longitude (DD): -64.71666699

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C6

QUAD Name: Coral Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201 x242; V.I. DPNR - Director - (340) 774-3320 Resource mgmt. (340) 693 8950 x224; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: None reported.**Habitat:** (OK) Sheltered mangroves, sandy beaches and rocky shoreline. Shallow coral reefs.**Wildlife:** Sea birds, wading birds and turtle nesting.**Threaten/Endangered Species:** Brown pelican and Sea Turtles, Acropora corals.**Socio-Economic Resources:** Recreational beach, coral reef.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Saltpond Bay may be accessed by 4WD vehicle. Boat: Shallow water prevents access along much of the shore by boat.**Collection Points:****Area Access:** boat/vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1200**Boom Type:****Booming Method:** Protection/Exclusion

Protection Strategy: Deploy 400 ft. exclusion boom at the mouth of the lagoon at Grootpan Bay. Deploy 800 ft. exclusion boom across Saltpond Bay and establish a collection point on the bays western side. . Deploy wildlife control measures to protect the birds. Pretreat mangroves.



Name: FRANCIS BAY& MAHO BAY

Site ID:

B565

Protection Priority (Season): Spring: Summer: Fall: Winter:

Site Description:

GEOSPATIAL INFORMATION

Latitude (DMS): 18° 21' 47.999" N

Longitude (DMS): 64° 45' 0.000" W

County: St. John

Latitude (DD): 18.36333300

Longitude (DD): -64.75000001

SCAT Division: St. John County Division 1

ESI Map: VI-7

ESI Name: WESTERN ST JOHN, V.I.

NOAA Chart: 25641

CHART Name: VIRGIN ISLANDS-VIRGIN GORDA TO ST THOMAS AND ST CROIX

USGS Quad: 18064-C7

QUAD Name: Cruz Bay

Managed Area (if applicable): Virgin Islands National Park

General Location: Central

CONTACT INFORMATION

Contacts: National Park Service - Superintendent - (340) 776-6201x 242; V.I. DPNR - (340) 774-3320; V.I. State Historic Preservation Office (SHPO) - (340) 774-3320, FAX 775-5706; Maho Bay Camp Grounds - (340) 776-6226; NOAA - Brad Benggio 206-849-9923; DOI - Greg Hogue 404-909-0537

RESOURCES AT RISK INFORMATION

Shoreline Type: High probability of encountering prehistoric resources in marked areas. Contact SHPO at the above number.**Habitat:** Mangroves, sandy and cobble beaches and rocky shores.**Wildlife:** Bird nesting area and important feeding and nesting area for green sea turtles, and nesting for hawksbill sea turtles. Some corals or shallow line-hard bottom areas.**Threaten/Endangered Species:** Brown Pelican and Sea turtles.**Socio-Economic Resources:** Very popular recreational beach and boater destination.

RESPONSE CONSIDERATIONS

Staging Area: Vehicle: Vehicle access is available. Boat: No boat access from shore, but it is accessible from sea.**Collection Points:****Area Access:** vehicle**Spill Risk:****Response Resources:**

PROTECTION STRATEGY INFORMATION

Tidal Range (FT):**Average Current (KTS):****Ease of Protection:****Min. Boom Length (FT):** 1000**Boom Type:****Booming Method:** Deflection

Protection Strategy: The beach area is well protected from the prevailing winds. Consider deploying along the beach 1,000 ft. of diversion boom. Boom across from Mary's pt. to Whistling Cay would protect beaches from Francis Bay to Peter's Bay. Private property is at the western side of Maho Beach. Maho Beach is a high recreational area. Whistling Cay has seabirds, coral reefs, and archeological sites. A boom can be extended from Mary Point to Whistling Cay to divert oil from Francis Bay and other north shore beaches. Prevailing winds are offshore from Francis and Maho beaches so surface currents would tend to carry oil away from these beaches.

