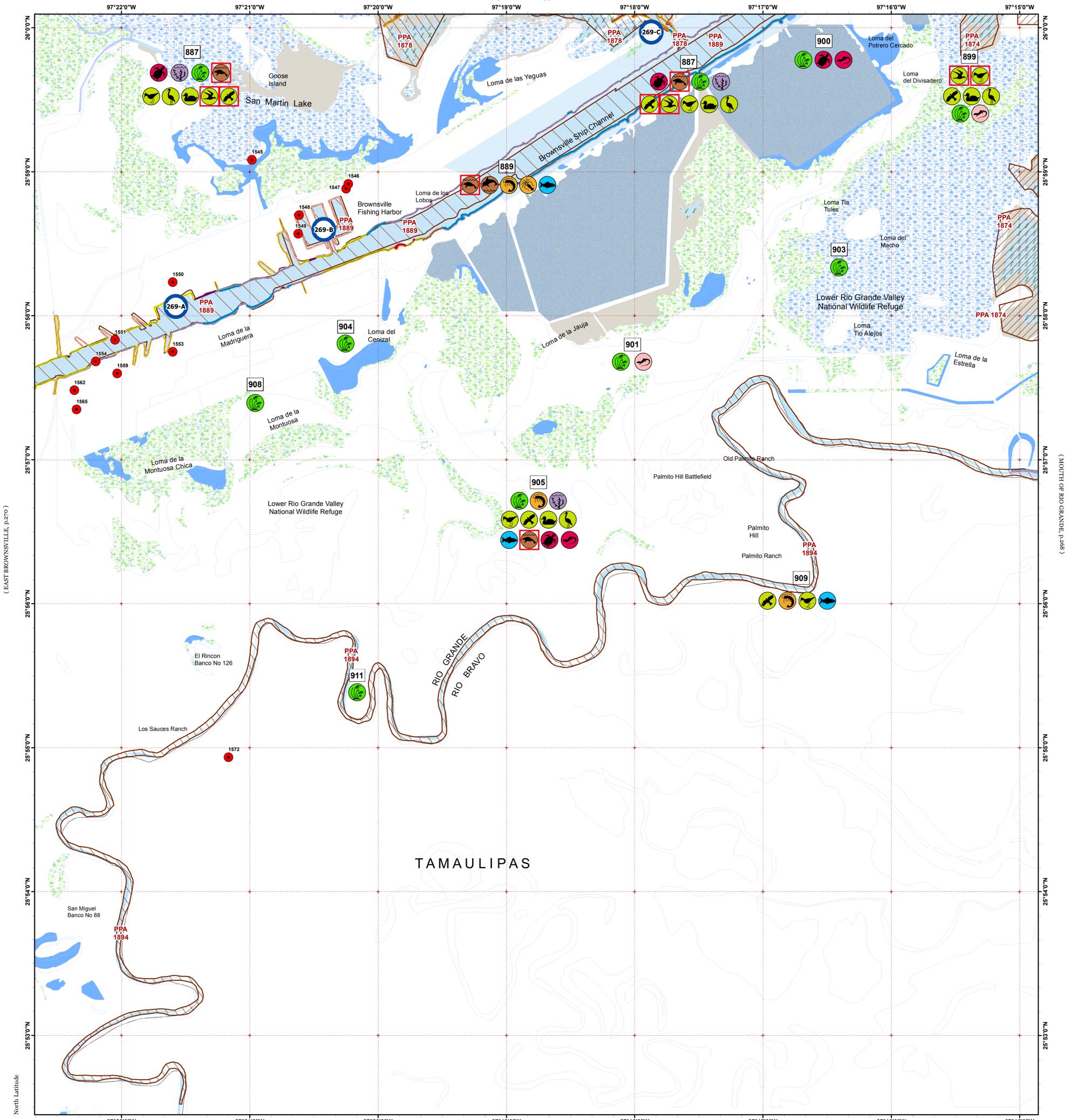


PALMITO HILL

(LAGUNA VISTA, p.265)

Click Here or Scroll Down for Associated Map Data

Click on the Geographic Response Plan Target to View the ICS Form



(EAST BROWNSVILLE, p.270)

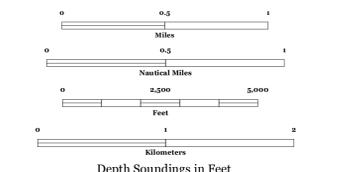
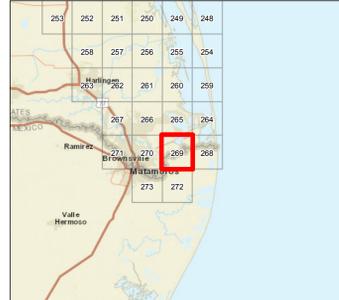
(MOUTH OF RIO GRANDE, p.268)

TAMAULIPAS



Oil Spill Planning and Response Atlas 2016

The Texas General Land Office makes no representations or warranties regarding the accuracy or completeness of the information depicted on this map or the data from which it was produced. This map is not suitable for navigational purposes and does not purport to depict boundaries of private and public land.



Human Use Features

- Facility
- Geographic Response Plan

Map Base Layers

- Estuarine Seagrass or Algae Bed
- Bays
- Salt and Brackish Marshes
- Intertidal Scrub/Shrub
- Beach or Tidal Flat
- Exposed Lake Shore
- Freshwater Marshes
- Lake / Pond
- Tidally Influenced River
- Perennial River
- County Boundary

Priority Protection Areas

- HIGH
- MEDIUM
- LOW

Species Icons Within Map Quad

- Amphibian
- Marsh
- Reptile
- Plant
- Turtle
- Quill/Tern T/E
- Cephalopod
- Raptor
- Shrimp
- Raptor Endangered
- Fish
- Shorebird
- Fish T/E
- Shorebird Endangered
- Dolphin
- Wading
- Mammal
- Waterfowl
- Mammal T/E

ENVIRONMENTAL SENSITIVITY INDEX

- 10D Mangroves and Woody Vegetation
- 10C Freshwater Swamps
- 10B Freshwater Marshes
- 10A Salt and Brackish Water Marshes
- 9 Sheltered Tidal Flats
- 8C Sheltered Rocky/Karst Shores
- 8D Sheltered Scarps
- 8B Sheltered Riprap Structures
- 8A Sheltered Solid Manmade Structures
- 7 Exposed Tidal Flats
- 6B Exposed Riprap Structures
- 6A Gravel or Shell Beaches
- 5 Mixed Sand and Gravel or Shell Beaches
- 4 Coarse-Grained Sand Beaches
- 3B Scrap and Steep Slopes in Sand
- 3A Fine-Grained Sand Beaches
- 2B Wave-Cut Clay Platforms
- 2A Scrap and Steep Slopes in Clay
- 1 Exposed Walls and Other Solid Structures

Quadrant: PALMITO HILL

Map # :269

Biological Information for this quadrant represents known concentration areas of occurrence.

Habitat Priority Protection Areas

PPA ID	PRIORITY	POLY DESC	BIRDS RANK	BIRDS DESC	FISH DESC	FISH RANK	WETLANDS R	WETLANDS D
PPA1874	HIGH	South Bay flats and lomas	HIGH	Piping plovers, peregrine falcons, shorebirds; ocelot occasional in surrounding brush; lomas support Texas tortoise, speckled racer				Sand-mud flats and algal mat, occasionally inundated; brushland habitat (Texas ebony/snake-eyes series) on upland lomas
PPA1878	MEDIUM	San Martin Lake	MEDIUM	Wading birds, shorebirds, abundant waterfowl	Good shrimp nursery, not hypersaline	HIGH	HIGH	Seagrass in shallow water (not always present);black mangrove
PPA1889	LOW	Brownsville Ship Channel	MEDIUM	Brown pelicans, ospreys, terns	Nursery, fishing	MEDIUM		
PPA1894	MEDIUM	Lower Rio Grande	HIGH		Nursery, recreational fishing	HIGH		

Biological Resources

Bird

RARNUM	NAME	S	F	CONC	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	FLEDGING	
887	Migratory songbirds						X	X	X	X		X	X	X	X						
	Least tern		E				X	X	X	X	X	X	X	X			APR-SEP	APR-SEP	MAY-SEP	MAY-SEP	
	Aplomado falcon		E	LOW	X	X	X	X	X	X	X	X	X	X	X	X					
	Peregrine falcon				X	X	X	X	X				X	X	X	X					
	Shorebirds				X	X	X	X	X	X	X	X	X	X	X	X					
	Wilson's plover	C					X	X	X	X	X	X	X	X			MAR-AUG				
	Long-billed curlew	C		HIGH	X	X	X	X	X	X	X	X	X	X	X	X					
	American avocet				X	X	X	X	X				X	X	X	X					
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Black-necked stilt				X	X	X	X	X	X	X	X	X	X	X	X		APR-SEP	APR-SEP	APR-SEP	APR-SEP
	Wood stork				X	X	X	X	X	X	X	X	X	X	X	X					
	Waterfowl				X	X	X	X	X	X	X	X	X	X	X	X					
Mottled duck	C			X	X	X	X	X	X	X	X	X	X	X	X		JAN-AUG	JAN-AUG	JAN-AUG	FEB-SEP	
899	Migratory songbirds						X	X	X	X		X	X	X	X						
	Least tern		E				X	X	X	X	X	X	X	X			APR-SEP	APR-SEP	MAY-SEP	MAY-SEP	
	Peregrine falcon				X	X	X	X	X				X	X	X	X					
	Shorebirds				X	X	X	X	X	X	X	X	X	X	X	X					
	Dunlin				X	X	X	X	X					X	X	X					
	Red knot		T				X	X					X	X							
	Western sandpiper	C			X	X	X	X			X	X	X	X	X	X					
	Least sandpiper				X	X	X	X	X		X	X	X	X	X	X					
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	FEB-AUG	FEB-AUG	MAR-SEP
	Piping plover		T		X	X	X	X	X		X	X	X	X	X	X					
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
	Reddish egret				X	X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	APR-AUG	APR-AUG	APR-SEP
Waterfowl				X	X	X	X	X	X	X	X	X	X	X	X						
901	Migratory songbirds						X	X	X	X		X	X	X	X						
903	Migratory songbirds						X	X	X	X		X	X	X	X						
904	Migratory songbirds						X	X	X	X		X	X	X	X						
905	Migratory songbirds						X	X	X	X		X	X	X	X						
	Peregrine falcon				X	X	X	X	X				X	X	X	X					
	Shorebirds				X	X	X	X	X	X	X	X	X	X	X	X					
	Wilson's plover	C					X	X	X	X	X	X	X	X			MAR-AUG				
	Long-billed curlew	C			X	X	X	X	X	X	X	X	X	X	X	X					
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL	MAR-JUL	MAR-JUL	MAR-AUG
Waterfowl				X	X	X	X	X	X	X	X	X	X	X	X						
908	Migratory songbirds						X	X	X	X		X	X	X	X						
909	Osprey				X	X	X	X	X	X	X	X	X	X	X	X					
	Yellow-crowned night-heron				X	X	X	X	X	X	X	X	X	X	X	X		APR-SEP	APR-SEP	APR-SEP	APR-SEP

Fish

RARNUM	NAME	S	F	CONC	J	F	M	A	M	J	J	A	S	O	N	D	LARV/JUV	SPAWNING
889	Native fish community				X	X	X	X	X	X	X	X	X	X	X	X		
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAY	FEB-APR
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	ALLYEAR	DEC-MAY
	Snook			LOW	X	X	X	X	X	X	X	X	X	X	X	X		JUN-JUL
	Crevalle jack				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-SEP
	Gray snapper				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	JUN-SEP
	Lookdown				X	X	X	X	X	X	X	X	X	X	X	X		
905	Native fish community				X	X	X	X	X	X	X	X	X	X	X	X		
	Snook			LOW	X	X	X	X	X	X	X	X	X	X	X	X		JUN-JUL
909	Native fish community				X	X	X	X	X	X	X	X	X	X	X	X		
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	ALLYEAR	DEC-MAY

Invertebrate

RARNUM	NAME	S	F	CONC	J	F	M	A	M	J	J	A	S	O	N	D	LARV/JUV	SPAWNING
889	Atlantic brief squid				X	X	X	X	X	X	X	X	X	X	X	X		
	Native shrimp and crab community				X	X	X	X	X	X	X	X	X	X	X	X		

Invertebrate

RARNUM	NAME	S	F	CONC	J	F	M	A	M	J	J	A	S	O	N	D	LARV/JUV	SPAWNING
905	Native shrimp and crab community				X	X	X	X	X	X	X	X	X	X	X	X		
909	Native shrimp and crab community				X	X	X	X	X	X	X	X	X	X	X	X		

Marine Mammal

RARNUM	NAME	S	F	CONC	J	F	M	A	M	J	J	A	S	O	N	D	LARV/JUV	SPAWNING	MATING	CALVING
887	Ocelot		E	LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Coues' rice rat				X	X	X	X	X	X	X	X	X	X	X	X		ALLYEAR		
889	Bottlenose dolphin				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	JUL-AUG	JAN-DEC	JAN-DEC
	West Indian manatee		E	LOW			X	X	X	X	X	X	X	X	X					
	Ocelot		E	LOW	X	X	X	X	X	X	X	X	X	X	X	X				
905	Jaguarundi		E	LOW	X	X	X	X	X	X	X	X	X	X	X	X		NOV-DEC		
	Ocelot		E	LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Coues' rice rat				X	X	X	X	X	X	X	X	X	X	X	X		ALLYEAR		

Reptile

RARNUM	NAME	S	F	CONC	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	LAYING	HATCHING	LARV/JUV
887	Black-striped snake			LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Texas tortoise				X	X	X	X	X	X	X	X	X	X	X	X		JUN-JUL		
900	Speckled racer			LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Texas tortoise				X	X	X	X	X	X	X	X	X	X	X	X		JUN-JUL		
905	Black-striped snake			LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Speckled racer			LOW	X	X	X	X	X	X	X	X	X	X	X	X				
	Texas tortoise				X	X	X	X	X	X	X	X	X	X	X	X		JUN-JUL		

Human Use Resources

Facility	RARNUM	NAME	CONTACT	CONTACT INFO
	1545	S. & S. Sales Co. D.B.A. - Brownsville	Sammy Snodgrass	N/A
	1546	CVC Construction, DBA Welding Works International	christina de la fuente	956-592-3165
	1547	Brownsville Navigation Dist - Wastewater Facility	Ariel Chavez	956-831-8256
	1548	Texas Gulf Trawling, Inc.	Harley Londrie	956-592-3401
	1549	Oil Patch Fuel & Supply, Inc.	LeRoy Hatley	956-831-4839
	1550	Keppel Amfels	Leonardo Alaniz	956-831-8220
	1551	Heavy Duty Equipment, Inc.	Clay Cheshire	956-371-0092
	1553	International Shipbreaking	Chris Green	956-831-6341
	1554	Marine Metal, Inc.	Omar Perez	956-831-4284
	1559	Maverick Fuel Oil Terminal Brownsville	Gordon Long	210-250-1703
	1562	Maverick Terminals Brownsville	Gordon Long	210-250-1703
	1565	Citgo Petroleum Corporation Brownsville Terminal	Charles Milstead	956-831-8241
	1572	All Star Metals LLC	Nikhil Shah	956-838-2110

1. Incident Name	2. Operational Period (Date/Time)	Assignment List ICS 204-OS
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3. Branch	4. Division/Group
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5. Operations Personnel	
Operations Section Chief	_____
Branch Director	_____
Division/Group Supervisor	_____

6. Resources Assigned This Period					"X" Indicates 204a attachment with special instructions
Resource Identifier	Leader	Contact Info #	# of Persons	Reporting Info/Notes/Remarks	

7. Assignments

SAFETY NOTE: High traffic area with overhead danger. Slips, trips and falls around bulkheads.

8. Site Number: 269-A	9. Quad Name Palmito Hill	10. NOAA Chart # 11302	11. GLO Atlas Page # 269	12. County Cameron
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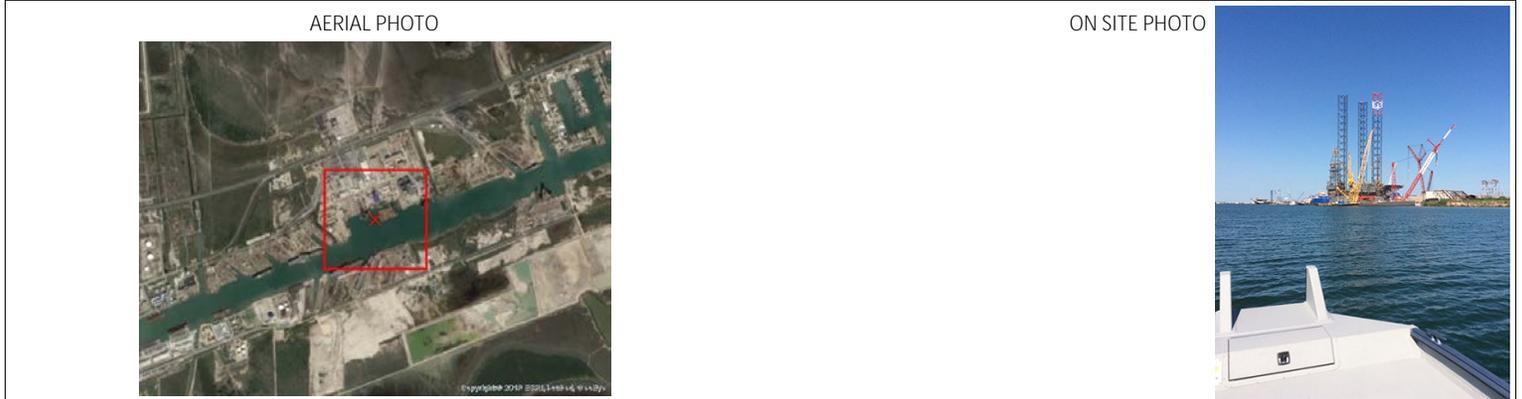
13. Site Information: Keppel/Amfels Keppel/Amfels engineers, builds and repairs offshore drilling rigs. Amfels is located off Hwy 48 and is west of the Brownsville Shrimp Basin. Site encompasses manmade structures, bulkheads, dry docks.		14. Latitude From: 25° 58' 04"	To:
		15. Longitude From: 97° 21' 31"	To:

16. Closest Boat Ramp Port of Brownsville	17. Distance From Ramp 3.7 nm	18. Boat Type Semi V Hull Boat
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19. Directions From Local Sector HWY 77 South exit FM 511 to HWY 48. East on HWY 48 to Keppel/Amfels	20. Closest Airport South Padre Island-Cameron County Airport
	21. Closest Helo Spot 3.7 nm

22. Trustee/Contact Numbers	23. Resources at Risk	24. Width of inlet 2,650 ft in ft.
USCG: 956-364-7400 RRC: 512-463-6788	Atlas Priority High	25. Water depth in ft. 50 ft
USCG DUTY: 956-592-0544 TPWD: 713-869-5001	Environmental High	26. Current Medium
TGLO: (800) 832-8224 NRDA: (512) 463 -9309	Economic High	27. No. of Personnel 3-6
TCEQ: 956-778-5423 USFWS: 956-748-3607		

25. Booming Strategy Recommendation Containment boom Keppel/Amfels and migrate oil to collection points within site.
--



29. Prepared By:	30. Reviewed by (PSC)	31. Reviewed by (OSC):
Assignment List	ICS 204 OS (Geographic Response Plan)	Project Updated:

"Response strategies may need to be modified to account for changes due to seasonality, weather conditions, spill characteristics, tides and any other considerations."

1. Incident Name	2. Operational Period (Date/Time)	Assignment List ICS 204-OS
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3. Branch	4. Division/Group
-----------	-------------------

5. Operations Personnel
Operations Section Chief _____
Branch Director _____
Division/Group Supervisor _____

6. Resources Assigned This Period "X" Indicates 204a attachment with special instructions

Resource Identifier	Leader	Contact Info #	# of Persons	Reporting Info/Notes/Remarks

7. Assignments

SAFETY NOTE: Highly Trafficked area. Oysters and slips trips and falls around dock area.

8. Site Number: 269-B	9. Quad Name Palmito Hill	10. NOAA Chart # 11302	11. GLO Atlas Page # 269	12. County Cameron
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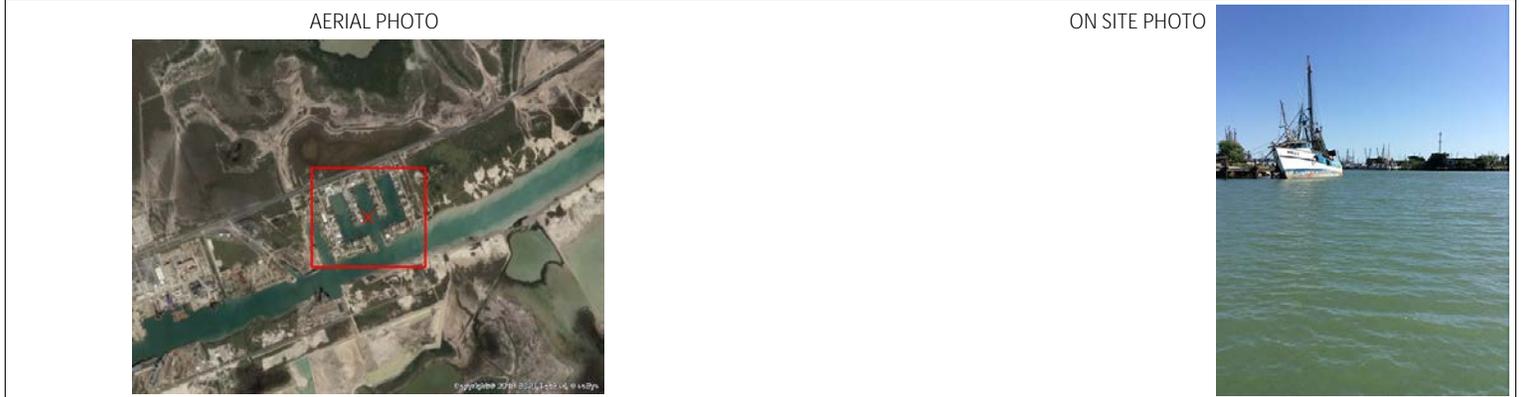
13. Site Information: Brownsville Shrimp Basin Brownsville Shrimp Basin in joined to the Brownsville Ship Channel and contains the shrimping fleet for the Brownsville Area. There are three basin in a trident configuration; West Basin, Center Basin and East Basin. Site encompasses riprap and commercia	14. Latitude From: 25° 58' 26"N	To:	
	15. Longitude From: 97° 20' 20"W	To:	

16. Closest Boat Ramp Hwy 48 Boat Ramp	17. Distance From Ramp 3.25 nautical miles	18. Boat Type V Hull Boat
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19. Directions From Local Sector Hwy 77 South exit FM 511. East on FM 511 to Hwy 48. East on Hwy 48 to the Brownsville Shrimp basin.	20. Closest Airport Brownsville/ SPI International Airport
	21. Closest Helo Spot Brownsville/ SPI International Airport

22. Trustee/Contact Numbers	23. Resources at Risk	24. Width of inlet 165 feet in ft.
USCG: 956-364-7400 RRC: 512-463-6788	Atlas Priority Medium	25. Water depth in ft. 35 ft
USCG DUTY: 956-592-0544 TPWD: 713-869-5001	Environmental Medium	26. Current Low
TGLO: (800) 832-8224 NRDA: (512) 463 -9309	Economic High	27. No. of Personnel 2-4
TCEQ: 956-778-5423 USFWS: 956-748-3607		

25. Booming Strategy Recommendation Deflection boom of the Brownsville Shrimp basin for spills outside the basin. For spills within the Brownsville Shrimp Basin Containment boom the affected area and concentrate oil for recovery.



29. Prepared By:	30. Reviewed by (PSC)	31. Reviewed by (OSC):
Assignment List	ICS 204 OS (Geographic Response Plan)	Project Updated:

"Response strategies may need to be modified to account for changes due to seasonality, weather conditions, spill characteristics, tides and any other considerations."

1. Incident Name	2. Operational Period (Date/Time)	Assignment List ICS 204-OS
------------------	-----------------------------------	----------------------------

3. Branch	4. Division/Group
-----------	-------------------

5. Operations Personnel	
Operations Section Chief	_____
Branch Director	_____
Division/Group Supervisor	_____

6. Resources Assigned This Period "X" Indicates 204a attachment with special instructions

Resource Identifier	Leader	Contact Info #	# of Persons	Reporting Info/Notes/Remarks

7. Assignments

SAFETY NOTE: Oysters beds and deep mud along the shallow banks of San Martin Lake.

8. Site Number: 269-C	9. Quad Name Laguna Vista	10. NOAA Chart # 11301	11. GLO Atlas Page # 269	12. County Cameron
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13. Site Information: Entrance San Martin Lake San Martin Lake is a tidally influenced lake that is joined to the Brownsvill Ship Channel. This site is encompassed by Black Mangroves and oyster beds along a mud bank. San Martin Lake is highly sensitive area.	14. Latitude From: 26° 00' 10.8"N	To:	
	15. Longitude From: 97° 18' 3.6"W	To:	

16. Closest Boat Ramp Hwy 48	17. Distance From Ramp 0.1 nm	18. Boat Type Flat Bottom Boat
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19. Directions From Local Sector Hwy 77 South to FM 511. East on FM 511 to Hwy 48. East on Hwy 48 to Hwy 48 boat Ramp and San Martin Lake.	20. Closest Airport Brownsville/ SPI International Airport
	21. Closest Helo Spot Brownsville/ SPI International Airport

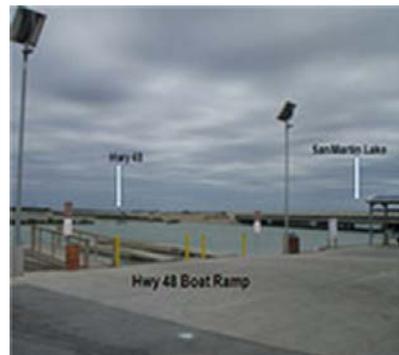
22. Trustee/Contact Numbers	23. Resources at Risk	24. Width of inlet 500 ft in ft.
USCG: 956-364-7400 RRC: 512-463-6788	Atlas Priority High	25. Water depth in ft. 15 ft
USCG DUTY: 956-592-0544 TPWD: 713-869-5001	Environmental High	26. Current Fast
TGLO: (800) 832-8224 NRDA: (512) 463 -9309	Economic Medium	27. No. of Personnel 2-4
TCEQ: 956-778-5423 USFWS: 956-748-3607		

25. Booming Strategy **Recommendation**
Deflection boom of the Pass to San Martin Lake to direct product away from sensitive areas. Adjust for changing tides and weather.

AERIAL PHOTO



ON SITE PHOTO



29. Prepared By:	30. Reviewed by (PSC)	31. Reviewed by (OSC):
Assignment List	ICS 204 OS (Geographic Response Plan)	Project Updated:

"Response strategies may need to be modified to account for changes due to seasonality, weather conditions, spill characteristics, tides and any other considerations."