

Laguna Madre

Segment: 2491 Bays and Estuaries

Basin number: 24
Basin group: E
Water body classification: Classified
Water body type: Estuary
Water body length / area: 347.4 Sq. miles
Water body uses: Aquatic Life Use, Contact Recreation Use, General Use, Fish Consumption Use, Oyster Waters Use

Standards Not Met in Previous Years Assessment Area	Use	Support Status	Parameter	Category
Area around the mouth of Baffin Bay	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Area around the mouth of the Arroyo Colorado	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Area near upper end of Padre Island National Seashore	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Upper Laguna Madre near Packery Channel Park	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c

Parameters Removed

from the 2000 303(d) List: bacteria (oyster waters)

Additional Information: The contact recreation, general and oyster waters uses were fully supported. The fish consumption use was not assessed.

This segment was identified on the 2000 303(d) List as partially supporting the aquatic life use due to depressed dissolved oxygen in several areas. Because an insufficient number of 24-hour dissolved oxygen values were available in 2002 to determine if the criterion is supported, this segment will be identified as not meeting the standard for dissolved oxygen until sufficient 24-hour measurements are available to demonstrate support of the criterion.

2002 Concerns: Assessment Area	Use or Concern	Concern Status	Description of Concern
18.1 square miles near the Arroyo Colorado and along the ICWW	Oyster Waters Use	Use Concern	bacteria (oyster waters)
Area around the mouth of Baffin Bay	Algal Growth Concern	Concern	excessive algal growth
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	ammonia
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	nitrate+nitrite nitrogen
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	orthophosphorus

(based on data from 03/01/1996 to 02/28/2001)

2002 Concerns:			
Assessment Area	Use or Concern	Concern Status	Description of Concern
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	total phosphorus

Monitoring sites used:		
Assessment Area	Station ID	Station Description
Area adjacent to the Laguna Atascosa National Wildlife Refuge	14844	LAGUNA MADRE AT ICWW MARKER 49
Area around Morano Blanco	14845	LAGUNA MADRE AT ICWW CM 109
Area around Morano Blanco	15596	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SW SHORELINE, 0.6 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15597	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SOUTHERN SHORELINE, 0.8 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15598	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SOUTHERN SHORELINE, 0.5 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15599	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SOUTHERN SHORELINE, 0.55 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15600	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO, MID-COVE, 0.5 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15601	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO, MID-COVE, 0.3 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15602	LOWER LAGUNA MADRE NEAR WEST SHORELINE, BORDERING LAGUNA ATASCOSA NATIONAL WILDLIFE REFUGE, 1.9 KM NORTH OF MORANCO BLANCO POINT
Area around Morano Blanco	15604	LOWER LAGUNA MADRE NEAR WEST SHORELINE BORDERING LAGUNA ATASCOSA NATIONAL WILDLIFE REFUGE, 0.75 KM NORTH OF MORANCO BLANCO POINT
Area around Morano Blanco	15605	LOWER LAGUNA MADRE NEAR WEST SHORE BORDERING LAGUNA ATASCOSA NATIONAL WILDLIFE REFUGE, 0.7 KM NORTH OF MORANCO BLANCO POINT
Area around Port Mansfield	13448	LAGUNA MADRE INTERSECTION OF INTRACOASTAL CANAL AND PORT MANSFIELD CHANNEL
Area around Port Mansfield	14843	LAGUNA MADRE AT PORT MANSFIELD CM 40
Area around Port Mansfield	17117	LAGUNA MADRE 1/4 MI. NW OF ICWW CM 284 IN THE TURNING CHANNEL BETWEEN THE ICWW AND THE PT. MANSFIELD CHANNEL
Area around Rincon de San Jose	13449	LAGUNA MADRE CHANNEL MARKER C-225A NORTH OF PORT MANSFIELD
Area around the mouth of Baffin Bay	13444	LAGUNA MADRE AT INTERSECTION OF ICWW AT BAFFIN BAY MARKER
Area around the mouth of the Arroyo Colorado	13447	LAGUNA MADRE INTERSECTION OF INTRACOASTAL CANAL AND ARROYO COLORADO
Area near upper end of Padre Island National Seashore	13445	LAGUNA MADRE AT ICWW NEAR BIRD ISLAND

Monitoring sites used:		
Assessment Area	Station ID	Station Description
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	13446	LAGUNA MADRE INTRACOASTAL CANAL AT MARKER 129 EAST OF PORT ISABEL
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14862	LAGUNA MADRE 300 YDS. NE OF ENTRANCE TO YACHT CLUB TURNING BASIN
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14868	LAGUNA MADRE 200 YDS. OFF SOUTH PADRE ISLAND 2 MI. NORTH OF THE CAUSEWAY
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14876	LAGUNA MADRE AT THE MIDDLE OF THE SOUTH PADRE ISLAND CAUSEWAY
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14878	LAGUNA MADRE AT ENTRANCE TO SEA RANCH MARINA CHANNEL
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14879	LAGUNA MADRE 1/4 MI. SOUTH OF COASTGUARD BOAT DOCKS
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	17100	LAGUNA MADRE, 400M WEST OF ANDY BOWIE PARK
Lower Laguna Madre near Laguna Heights and Laguna Vista	14861	LAGUNA MADRE 300 YDS. NW OF THE YACHT CLUB TURNING BASIN ENTRANCE
Lower Laguna Madre near Laguna Heights and Laguna Vista	14869	LAGUNA MADRE 200 YDS. OFF LAGUNA HEIGHTS SHORELINE
Lower Laguna Madre near Laguna Heights and Laguna Vista	14870	LAGUNA MADRE 200 YDS. OFF LAGUNA VISTA SHORELINE
Upper Laguna Madre near Packery Channel Park	13443	LAGUNA MADRE SOUTH OF THE INTERSECTION OF ICWW AND PADRE ISLAND CAUSEWAY

Published studies:		
Publication	Date	Author
IS 68 Port Mansfield	Oct. 1983	Bowles, R. (Region 15)

Historical fish kills:			
Date	Location	Fish Killed	Suspected Cause
5/20/1996	Laguna Madre, Irrigation ditch near La Sara, Raymondville, FM 186	400	Low Dissolved Oxygen
5/31/1996	Laguna Madre, Tropic Isles Subdivision, Flour Bluff	10000	Low Dissolved Oxygen
9/29/1996	Punta Bonair, off of Sea Pines, Padre Isles Canals, Laguna Madre	20	Low Dissolved Oxygen
8/23/1997	Laguna Madre, Tropic Isles Canals, off Caribbean and Azores	1000	Low Dissolved Oxygen
12/25/1998	Port Isabel finger channels (Laguna Madre)	5045	Temperature
12/29/1998	Canal adjacent to Cobo de Bara Circle on Padre Island (Laguna Madre)	200	Temperature

Historical fish kills:			
Date	Location	Fish Killed	Suspected Cause
1/4/1999	Western section of upper Laguna Madre Bay from shore out to intracoastal canal	47917	Physical Damage/Trauma
7/10/2000	Padre Island, Corpus Christi, Texas - Commodore Cove Subdivision	22	Low Dissolved Oxygen

Segment ID: 2491 Water body name: Laguna Madre**Estuary****Bays and Estuaries**

Total size:

347.4 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use						
Dissolved Oxygen grab average	Not Assess-Not Represent	Area around Morano Blanco	8	9	1	
Dissolved Oxygen grab average	No Concern	Area around Port Mansfield	8	20	1	
Dissolved Oxygen grab average	Not Assessed	Area around Rincon de San Jose	8	3	1	
Dissolved Oxygen grab average	Not Assessed	Area around the mouth of Baffin Bay	8	7	0	
Dissolved Oxygen grab average	No Concern	Area around the mouth of the Arroyo Colorado	8	21	1	
Dissolved Oxygen grab average	No Concern	Area near upper end of Padre Island National Seashore	8	21	2	
Dissolved Oxygen grab average	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	20	0	
Dissolved Oxygen grab average	No Concern	Upper Laguna Madre near Packery Channel Park	8	14	2	
Dissolved Oxygen grab minimum	Not Assess-Not Represent	Area around Morano Blanco	8	9	0	
Dissolved Oxygen grab minimum	Fully Supporting	Area around Port Mansfield	8	20	0	
Dissolved Oxygen grab minimum	Not Assessed	Area around Rincon de San Jose	8	3	0	
Dissolved Oxygen grab minimum	No Concern-Limited Data	Area around the mouth of Baffin Bay	8	7	0	
Dissolved Oxygen grab minimum	Fully Supporting	Area around the mouth of the Arroyo Colorado	8	21	0	
Dissolved Oxygen grab minimum	Fully Supporting	Area near upper end of Padre Island National Seashore	8	21	0	
Dissolved Oxygen grab minimum	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	20	0	
Dissolved Oxygen grab minimum	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8	14	0	
Dissolved Oxygen 24hr average	Not Assessed	Area around Morano Blanco	8	0		
Dissolved Oxygen 24hr average	Not Assessed	Area around Port Mansfield	8	0		
Dissolved Oxygen 24hr average	Not Assessed	Area around Rincon de San Jose	8	0		
Dissolved Oxygen 24hr average	Not Assessed	Area around the mouth of Baffin Bay	8	0		
Dissolved Oxygen 24hr average	Not Assessed	Area around the mouth of the Arroyo Colorado	8	0		
Dissolved Oxygen 24hr average	Not Assessed	Area near upper end of Padre Island National Seashore	8	0		

Segment ID: 2491 Water body name: Laguna Madre

Estuary		Bays and Estuaries		Total size:		347.4 Sq. miles	
Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean	
Aquatic Life Use (continued)							
Dissolved Oxygen 24hr average	Not Assessed	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	0			
Dissolved Oxygen 24hr average	Not Assessed	Upper Laguna Madre near Packery Channel Park	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Area around Morano Blanco	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Area around Port Mansfield	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Area around Rincon de San Jose	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Area around the mouth of Baffin Bay	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Area around the mouth of the Arroyo Colorado	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Area near upper end of Padre Island National Seashore	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	0			
Dissolved Oxygen 24hr minimum	Not Assessed	Upper Laguna Madre near Packery Channel Park	8	0			
Overall Aquatic Life Use	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8				
Overall Aquatic Life Use	Not Assessed	Area around Morano Blanco	8				
Overall Aquatic Life Use	Fully Supporting	Area around Port Mansfield	8				
Overall Aquatic Life Use	Not Assessed	Area around Rincon de San Jose	8				
Overall Aquatic Life Use	Not Assessed	Area around the mouth of Baffin Bay	8				
Overall Aquatic Life Use	Fully Supporting	Area around the mouth of the Arroyo Colorado	8				
Overall Aquatic Life Use	Fully Supporting	Area near upper end of Padre Island National Seashore	8				
Overall Aquatic Life Use	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8				
Overall Aquatic Life Use	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8				
Overall Aquatic Life Use	Not Assessed	Remainder of segment	267.4				

Segment ID: 2491 Water body name: Laguna Madre**Estuary****Bays and Estuaries**

Total size:

347.4 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Aquatic Life Use (continued)

Overall Aquatic Life Use	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8			
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Contact Recreation Use

Enterococci single sample	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8	0		
Enterococci single sample	Not Assessed	Area around Morano Blanco	8	0		
Enterococci single sample	Not Assessed	Area around Port Mansfield	8	0		
Enterococci single sample	Not Assessed	Area around Rincon de San Jose	8	0		
Enterococci single sample	Not Assessed	Area around the mouth of Baffin Bay	8	0		
Enterococci single sample	Not Assessed	Area around the mouth of the Arroyo Colorado	8	0		
Enterococci single sample	Not Assessed	Area near upper end of Padre Island National Seashore	8	0		
Enterococci single sample	Not Assessed	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	0		
Enterococci single sample	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8	0		
Enterococci single sample	Not Assessed	Upper Laguna Madre near Packery Channel Park	8	0		

Enterococci geometric mean	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8	0		
Enterococci geometric mean	Not Assessed	Area around Morano Blanco	8	0		
Enterococci geometric mean	Not Assessed	Area around Port Mansfield	8	0		
Enterococci geometric mean	Not Assessed	Area around Rincon de San Jose	8	0		
Enterococci geometric mean	Not Assessed	Area around the mouth of Baffin Bay	8	0		
Enterococci geometric mean	Not Assessed	Area around the mouth of the Arroyo Colorado	8	0		
Enterococci geometric mean	Not Assessed	Area near upper end of Padre Island National Seashore	8	0		
Enterococci geometric mean	Not Assessed	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	0		

Segment ID: 2491 Water body name: Laguna Madre

Estuary

Bays and Estuaries

Total size:

347.4 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Contact Recreation Use (continued)

Enterococci geometric mean	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8	0		
Enterococci geometric mean	Not Assessed	Upper Laguna Madre near Packery Channel Park	8	0		
Fecal coliform single sample	Fully Supporting	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8	25	0	
Fecal coliform single sample	Fully Supporting	Area around Morano Blanco	8	27	0	
Fecal coliform single sample	Fully Supporting	Area around Port Mansfield	8	44	1	
Fecal coliform single sample	Not Assessed	Area around Rincon de San Jose	8	3	0	
Fecal coliform single sample	No Concern-Limited Data	Area around the mouth of Baffin Bay	8	7	0	
Fecal coliform single sample	Fully Supporting	Area around the mouth of the Arroyo Colorado	8	49	0	
Fecal coliform single sample	Fully Supporting	Area near upper end of Padre Island National Seashore	8	21	0	
Fecal coliform single sample	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	200	0	
Fecal coliform single sample	Fully Supporting	Lower Laguna Madre near Laguna Heights and Laguna Vista	8	90	0	
Fecal coliform single sample	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8	13	0	
Fecal coliform geometric mean	Fully Supporting	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8	25		2
Fecal coliform geometric mean	Fully Supporting	Area around Morano Blanco	8	27		2
Fecal coliform geometric mean	Fully Supporting	Area around Port Mansfield	8	44		3.4
Fecal coliform geometric mean	Not Assessed	Area around Rincon de San Jose	8	3		2
Fecal coliform geometric mean	No Concern-Limited Data	Area around the mouth of Baffin Bay	8	7		2
Fecal coliform geometric mean	Fully Supporting	Area around the mouth of the Arroyo Colorado	8	49		3
Fecal coliform geometric mean	Fully Supporting	Area near upper end of Padre Island National Seashore	8	21		3
Fecal coliform geometric mean	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	200		2.7

Segment ID: 2491 Water body name: Laguna Madre**Estuary****Bays and Estuaries**

Total size:

347.4 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Contact Recreation Use (continued)

Fecal coliform geometric mean	Fully Supporting	Lower Laguna Madre near Laguna Heights and Laguna Vista	8	90		2.4
Fecal coliform geometric mean	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8	13		2
Overall Recreation Use	Fully Supporting	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Overall Recreation Use	Fully Supporting	Area around Morano Blanco	8			
Overall Recreation Use	Fully Supporting	Area around Port Mansfield	8			
Overall Recreation Use	Not Assessed	Area around Rincon de San Jose	8			
Overall Recreation Use	Not Assessed	Area around the mouth of Baffin Bay	8			
Overall Recreation Use	Fully Supporting	Area around the mouth of the Arroyo Colorado	8			
Overall Recreation Use	Fully Supporting	Area near upper end of Padre Island National Seashore	8			
Overall Recreation Use	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
Overall Recreation Use	Fully Supporting	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Overall Recreation Use	Not Assessed	Remainder of segment	267.4			
Overall Recreation Use	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8			

General Use

Water Temperature	Not Assess-Not Represent	Area around Morano Blanco	8	9	0	
Water Temperature	Fully Supporting	Area around Port Mansfield	8	20	0	
Water Temperature	Not Assessed	Area around Rincon de San Jose	8	3	0	
Water Temperature	No Concern-Limited Data	Area around the mouth of Baffin Bay	8	7	0	
Water Temperature	Fully Supporting	Area around the mouth of the Arroyo Colorado	8	22	0	
Water Temperature	Fully Supporting	Area near upper end of Padre Island National Seashore	8	21	0	

Segment ID: 2491 Water body name: Laguna Madre**Estuary****Bays and Estuaries**

Total size:

347.4 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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General Use (continued)

Water Temperature	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	20	0	
Water Temperature	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8	14	0	
pH	Not Assess-Not Represent	Area around Morano Blanco	8	9	0	
pH	Fully Supporting	Area around Port Mansfield	8	20	0	
pH	Not Assessed	Area around Rincon de San Jose	8	3	0	
pH	No Concern-Limited Data	Area around the mouth of Baffin Bay	8	7	0	
pH	Fully Supporting	Area around the mouth of the Arroyo Colorado	8	21	0	
pH	Fully Supporting	Area near upper end of Padre Island National Seashore	8	21	0	
pH	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	20	0	
pH	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8	14	0	
Overall General Use	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Overall General Use	Not Assessed	Area around Morano Blanco	8			
Overall General Use	Fully Supporting	Area around Port Mansfield	8			
Overall General Use	Not Assessed	Area around Rincon de San Jose	8			
Overall General Use	Not Assessed	Area around the mouth of Baffin Bay	8			
Overall General Use	Fully Supporting	Area around the mouth of the Arroyo Colorado	8			
Overall General Use	Fully Supporting	Area near upper end of Padre Island National Seashore	8			
Overall General Use	Fully Supporting	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
Overall General Use	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Overall General Use	Not Assessed	Remainder of segment	267.4			

Segment ID: 2491 Water body name: Laguna Madre

Estuary	Bays and Estuaries	Total size:	347.4	Sq. miles
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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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General Use (continued)

Overall General Use	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8			
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Fish Consumption Use

Overall Fish Consumption Use	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Overall Fish Consumption Use	Not Assessed	Area around Morano Blanco	8			
Overall Fish Consumption Use	Not Assessed	Area around Port Mansfield	8			
Overall Fish Consumption Use	Not Assessed	Area around Rincon de San Jose	8			
Overall Fish Consumption Use	Not Assessed	Area around the mouth of Baffin Bay	8			
Overall Fish Consumption Use	Not Assessed	Area around the mouth of the Arroyo Colorado	8			
Overall Fish Consumption Use	Not Assessed	Area near upper end of Padre Island National Seashore	8			
Overall Fish Consumption Use	Not Assessed	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
Overall Fish Consumption Use	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Overall Fish Consumption Use	Not Assessed	Remainder of segment	267.4			
Overall Fish Consumption Use	Not Assessed	Upper Laguna Madre near Packery Channel Park	8			

Oyster Waters Use

TDH Maps	Use Concern	18.1 square miles near the Arroyo Colorado and along the ICWW	18.1			
TDH Maps	Not Assessed	Area around Rincon de San Jose	8			
TDH Maps	Not Assessed	Area around the mouth of Baffin Bay	8			
TDH Maps	Not Assessed	Area near upper end of Padre Island National Seashore	8			
TDH Maps	Fully Supporting	Main portion of the Laguna Madre south of Port Mansfield	134.8			

Segment ID: 2491 Water body name: Laguna Madre

Estuary	Bays and Estuaries	Total size:	347.4	Sq. miles
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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Oyster Waters Use (continued)

TDH Maps	Not Assessed	Remainder of the Laguna Madre north of Port Mansfield	162.5			
TDH Maps	Not Assessed	Upper Laguna Madre near Packery Channel Park	8			

Overall Use Support

	Fully Supporting	18.1 square miles near the Arroyo Colorado and along the ICWW	18.1			
	Not Assessed	Area around Rincon de San Jose	8			
	Not Assessed	Area around the mouth of Baffin Bay	8			
	Fully Supporting	Area near upper end of Padre Island National Seashore	8			
	Fully Supporting	Main portion of the Laguna Madre south of Port Mansfield	134.8			
	Not Assessed	Remainder of the Laguna Madre north of Port Mansfield	162.5			
	Fully Supporting	Upper Laguna Madre near Packery Channel Park	8			

Nutrient Enrichment Concern

Ammonia Nitrogen	Not Assessed	Area around Morano Blanco	8	3	0	
Ammonia Nitrogen	No Concern	Area around Port Mansfield	8	19	1	
Ammonia Nitrogen	Not Assessed	Area around Rincon de San Jose	8	3	0	
Ammonia Nitrogen	No Concern	Area around the mouth of Baffin Bay	8	10	1	
Ammonia Nitrogen	Concern	Area around the mouth of the Arroyo Colorado	8	21	6	
Ammonia Nitrogen	No Concern	Area near upper end of Padre Island National Seashore	8	19	3	
Ammonia Nitrogen	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	19	1	
Ammonia Nitrogen	No Concern	Upper Laguna Madre near Packery Channel Park	8	16	0	

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Nutrient Enrichment Concern (continued)

Nitrite + Nitrate Nitrogen	Not Assessed	Area around Morano Blanco	8	3	0	
Nitrite + Nitrate Nitrogen	No Concern	Area around Port Mansfield	8	19	1	
Nitrite + Nitrate Nitrogen	Not Assessed	Area around Rincon de San Jose	8	3	0	
Nitrite + Nitrate Nitrogen	No Concern	Area around the mouth of Baffin Bay	8	10	0	
Nitrite + Nitrate Nitrogen	Concern	Area around the mouth of the Arroyo Colorado	8	17	9	
Nitrite + Nitrate Nitrogen	No Concern	Area near upper end of Padre Island National Seashore	8	19	1	
Nitrite + Nitrate Nitrogen	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	17	0	
Nitrite + Nitrate Nitrogen	No Concern	Upper Laguna Madre near Packery Channel Park	8	16	0	
Orthophosphorus	Not Assessed	Area around Morano Blanco	8	3	0	
Orthophosphorus	No Concern	Area around Port Mansfield	8	16	0	
Orthophosphorus	Not Assessed	Area around Rincon de San Jose	8	3	0	
Orthophosphorus	No Concern	Area around the mouth of Baffin Bay	8	10	0	
Orthophosphorus	Concern	Area around the mouth of the Arroyo Colorado	8	16	5	
Orthophosphorus	No Concern	Area near upper end of Padre Island National Seashore	8	17	0	
Orthophosphorus	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	16	0	
Orthophosphorus	No Concern	Upper Laguna Madre near Packery Channel Park	8	16	0	
Total Phosphorus	Not Assessed	Area around Morano Blanco	8	3	0	
Total Phosphorus	No Concern	Area around Port Mansfield	8	19	0	
Total Phosphorus	Not Assessed	Area around Rincon de San Jose	8	3	0	
Total Phosphorus	No Concern	Area around the mouth of Baffin Bay	8	10	0	
Total Phosphorus	Concern	Area around the mouth of the Arroyo Colorado	8	21	7	
Total Phosphorus	No Concern	Area near upper end of Padre Island National Seashore	8	19	0	

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Estuary

Bays and Estuaries

Total size:

347.4 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Nutrient Enrichment Concern (continued)

Total Phosphorus	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	19	0	
Total Phosphorus	No Concern	Upper Laguna Madre near Packery Channel Park	8	15	0	
Overall Nutrient Enrichment Concerns	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Overall Nutrient Enrichment Concerns	Not Assessed	Area around Morano Blanco	8			
Overall Nutrient Enrichment Concerns	No Concern	Area around Port Mansfield	8			
Overall Nutrient Enrichment Concerns	Not Assessed	Area around Rincon de San Jose	8			
Overall Nutrient Enrichment Concerns	No Concern	Area around the mouth of Baffin Bay	8			
Overall Nutrient Enrichment Concerns	Concern	Area around the mouth of the Arroyo Colorado	8			
Overall Nutrient Enrichment Concerns	No Concern	Area near upper end of Padre Island National Seashore	8			
Overall Nutrient Enrichment Concerns	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
Overall Nutrient Enrichment Concerns	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Overall Nutrient Enrichment Concerns	Not Assessed	Remainder of segment	267.4			
Overall Nutrient Enrichment Concerns	No Concern	Upper Laguna Madre near Packery Channel Park	8			

Algal Growth Concern

Chlorophyll a	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Chlorophyll a	Not Assessed	Area around Morano Blanco	8	3	0	
Chlorophyll a	No Concern	Area around Port Mansfield	8	19	3	
Chlorophyll a	Not Assessed	Area around Rincon de San Jose	8	3	0	
Chlorophyll a	Concern	Area around the mouth of Baffin Bay	8	10	5	
Chlorophyll a	No Concern	Area around the mouth of the Arroyo Colorado	8	21	4	

Segment ID: 2491 Water body name: Laguna Madre**Estuary****Bays and Estuaries**

Total size:

347.4 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Algal Growth Concern (continued)						
Chlorophyll a	No Concern	Area near upper end of Padre Island National Seashore	8	19	3	
Chlorophyll a	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8	19	0	
Chlorophyll a	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Chlorophyll a	Not Assessed	Remainder of segment	267.4			
Chlorophyll a	No Concern	Upper Laguna Madre near Packery Channel Park	8	17	1	

Sediment Contaminants Concern

Metals in sediment	Not Assessed	Area around the mouth of Baffin Bay	8	2		
Metals in sediment	Not Assessed	Area near upper end of Padre Island National Seashore	8	1		
Organics in sediment	Not Assessed	Area around Morano Blanco	8	2		
Overall Sediment Contaminant Concerns	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Overall Sediment Contaminant Concerns	Not Assessed	Area around Morano Blanco	8			
Overall Sediment Contaminant Concerns	Not Assessed	Area around Port Mansfield	8			
Overall Sediment Contaminant Concerns	Not Assessed	Area around Rincon de San Jose	8			
Overall Sediment Contaminant Concerns	Not Assessed	Area around the mouth of Baffin Bay	8			
Overall Sediment Contaminant Concerns	Not Assessed	Area around the mouth of the Arroyo Colorado	8			
Overall Sediment Contaminant Concerns	Not Assessed	Area near upper end of Padre Island National Seashore	8			

Segment ID: 2491 Water body name: Laguna Madre

Estuary	Bays and Estuaries		Total size:		347.4	Sq. miles
Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean

Sediment Contaminants Concern (continued)

Overall Sediment Contaminant Concerns	Not Assessed	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
Overall Sediment Contaminant Concerns	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Overall Sediment Contaminant Concerns	Not Assessed	Remainder of segment	267.4			
Overall Sediment Contaminant Concerns	Not Assessed	Upper Laguna Madre near Packery Channel Park	8			

Fish Tissue Contaminants Concern

Overall Fish Tissue Contaminant Concerns	Not Assessed	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Area around Morano Blanco	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Area around Port Mansfield	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Area around Rincon de San Jose	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Area around the mouth of Baffin Bay	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Area around the mouth of the Arroyo Colorado	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Area near upper end of Padre Island National Seashore	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Remainder of segment	267.4			

Segment ID: 2491 Water body name: Laguna Madre

Estuary	Bays and Estuaries	Total size:	347.4	Sq. miles
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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Fish Tissue Contaminants Concern (continued)

Overall Fish Tissue Contaminant Concerns	Not Assessed	Upper Laguna Madre near Packery Channel Park	8			
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Narrative Criteria Concern

Overall Narrative Criteria Concerns	No Concern	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
Overall Narrative Criteria Concerns	No Concern	Area around Morano Blanco	8			
Overall Narrative Criteria Concerns	No Concern	Area around Port Mansfield	8			
Overall Narrative Criteria Concerns	No Concern	Area around Rincon de San Jose	8			
Overall Narrative Criteria Concerns	No Concern	Area around the mouth of Baffin Bay	8			
Overall Narrative Criteria Concerns	No Concern	Area around the mouth of the Arroyo Colorado	8			
Overall Narrative Criteria Concerns	No Concern	Area near upper end of Padre Island National Seashore	8			
Overall Narrative Criteria Concerns	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
Overall Narrative Criteria Concerns	No Concern	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
Overall Narrative Criteria Concerns	No Concern	Remainder of segment	267.4			
Overall Narrative Criteria Concerns	No Concern	Upper Laguna Madre near Packery Channel Park	8			

Overall Secondary Concern

	No Concern	Area adjacent to the Laguna Atascosa National Wildlife Refuge	8			
	No Concern	Area around Morano Blanco	8			
	No Concern	Area around Port Mansfield	8			
	No Concern	Area around Rincon de San Jose	8			
	Concern	Area around the mouth of Baffin Bay	8			
	Concern	Area around the mouth of the Arroyo Colorado	8			

Segment ID: 2491 Water body name: Laguna Madre

Estuary	Bays and Estuaries	Total size:	347.4	Sq. miles
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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Overall Secondary Concern (continued)

	No Concern	Area near upper end of Padre Island National Seashore	8			
	No Concern	Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	8			
	No Concern	Lower Laguna Madre near Laguna Heights and Laguna Vista	8			
	No Concern	Remainder of segment	267.4			
	No Concern	Upper Laguna Madre near Packery Channel Park	8			