Segment ID: 2453 **Water body name:** Lavaca Bay/Chocolate Bay

Estuary | Bays and Estuaries | Total size: 54.8 Sq. miles

Aquatic Life Use

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Dissolved Oxygen grab average	No Concern	Gallinipper Point to SH 35	15.5	17	0	
Dissolved Oxygen grab average	No Concern	Mouth of bay to Gallinipper Point	18	17	0	
Dissolved Oxygen grab average	No Concern	Point Comfort area	2.5	15	2	
Dissolved Oxygen grab average	No Concern	Upper bay	18.8	53	0	
Dissolved Oxygen grab minimum	Fully Supporting	Gallinipper Point to SH 35	15.5	17	0	
Dissolved Oxygen grab minimum	Fully Supporting	Mouth of bay to Gallinipper Point	18	17	0	
Dissolved Oxygen grab minimum	Fully Supporting	Point Comfort area	2.5	15	0	
Dissolved Oxygen grab minimum	Fully Supporting	Upper bay	18.8	53	0	
Dissolved Oxygen 24hr average	Not Assessed	Gallinipper Point to SH 35	15.5	0		
Dissolved Oxygen 24hr average	Not Assessed	Mouth of bay to Gallinipper Point	18	0		
Dissolved Oxygen 24hr average	Not Assessed	Point Comfort area	2.5	0		
Dissolved Oxygen 24hr average	Not Assessed	Upper bay	18.8	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Gallinipper Point to SH 35	15.5	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Mouth of bay to Gallinipper Point	18	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Point Comfort area	2.5	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Upper bay	18.8	0		
Acute Metals in water	Not Assessed	Mouth of bay to Gallinipper Point	18	2		
Acute Metals in water	No Concern-Limited Data	Point Comfort area	2.5	5		
Acute Metals in water	No Concern-Limited Data	Upper bay	18.8	5		
Chronic Metals in water	Not Assessed	Mouth of bay to Gallinipper Point	18	2		
Chronic Metals in water	No Concern-Limited Data	Point Comfort area	2.5	5		
Chronic Metals in water	No Concern-Limited Data	Upper bay	18.8	5		
Acute Organics in water	Not Assessed	Point Comfort area	2.5	1		

Segment ID: 2453 **Water body name:** Lavaca Bay/Chocolate Bay

Estuary | Bays and Estuaries | Total size: 54.8 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use (continued)						
Acute Organics in water	Not Assessed	Upper bay	18.8	1		
Chronic Organics in water	Not Assessed	Point Comfort area	2.5	1		
Chronic Organics in water	Not Assessed	Upper bay	18.8	1		
Overall Aquatic Life Use	Fully Supporting	Gallinipper Point to SH 35	15.5			
Overall Aquatic Life Use	Fully Supporting	Mouth of bay to Gallinipper Point	18			
Overall Aquatic Life Use	Fully Supporting	Point Comfort area	2.5			
Overall Aquatic Life Use	Fully Supporting	Upper bay	18.8			
Contact Recreation Use						
Enterococci single sample	Not Assessed	Gallinipper Point to SH 35	15.5	0		
Enterococci single sample	Not Assessed	Mouth of bay to Gallinipper Point	18	0		
Enterococci single sample	Not Assessed	Point Comfort area	2.5	0		
Enterococci single sample	Not Assessed	Upper bay	18.8	0		
Enterococci geometric mean	Not Assessed	Gallinipper Point to SH 35	15.5	0		
Enterococci geometric mean	Not Assessed	Mouth of bay to Gallinipper Point	18	0		
Enterococci geometric mean	Not Assessed	Point Comfort area	2.5	0		
Enterococci geometric mean	Not Assessed	Upper bay	18.8	0		
Fecal coliform single sample	Fully Supporting	Gallinipper Point to SH 35	15.5	373	3	
Fecal coliform single sample	Fully Supporting	Mouth of bay to Gallinipper Point	18	276	0	
Fecal coliform single sample	Fully Supporting	Point Comfort area	2.5	117	0	
Fecal coliform single sample	Fully Supporting	Upper bay	18.8	664	6	
Fecal coliform geometric mean	Fully Supporting	Gallinipper Point to SH 35	15.5	373		5
Fecal coliform geometric mean	Fully Supporting	Mouth of bay to Gallinipper Point	18	276		3
Fecal coliform geometric mean	Fully Supporting	Point Comfort area	2.5	117		3

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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Contact Recreation Use (continued)						
Fecal coliform geometric mean	Fully Supporting	Upper bay	18.8	664		7
Overall Recreation Use	Fully Supporting	Gallinipper Point to SH 35	15.5			
Overall Recreation Use	Fully Supporting	Mouth of bay to Gallinipper Point	18			
Overall Recreation Use	Fully Supporting	Point Comfort area	2.5			
Overall Recreation Use	Fully Supporting	Upper bay	18.8			
General Use						
Water Temperature	Fully Supporting	Gallinipper Point to SH 35	15.5	17	0	
Water Temperature	Fully Supporting	Mouth of bay to Gallinipper Point	18	17	0	
Water Temperature	Fully Supporting	Point Comfort area	2.5	15	0	
Water Temperature	Fully Supporting	Upper bay	18.8	53	0	
pH	Fully Supporting	Gallinipper Point to SH 35	15.5	17	0	
pH	Fully Supporting	Mouth of bay to Gallinipper Point	18	17	0	
pH	Fully Supporting	Point Comfort area	2.5	15	0	
pH	Fully Supporting	Upper bay	18.8	53	0	
Overall General Use	Fully Supporting	Gallinipper Point to SH 35	15.5			
Overall General Use	Fully Supporting	Mouth of bay to Gallinipper Point	18			
Overall General Use	Fully Supporting	Point Comfort area	2.5			
Overall General Use	Fully Supporting	Upper bay	18.8			
Fish Consumption Use						
Advisories and Closures	Fully Supporting	Upper bay	18.8			
Advisories and Closures Aquatic Life Closure	Not Supporting	Point Comfort area	2.5			
Human Health Criteria	No Concern-Limited Data	Point Comfort area	2.5	5		

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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Fish Consumption Use (continued)						
Human Health Criteria	Fully Supporting	Upper bay	18.8	10		
Human Health Criteria Metals	Not Assessed	Mouth of bay to Gallinipper Point	18	2		
Overall Fish Consumption Use	Not Assessed	Gallinipper Point to SH 35	15.5			
Overall Fish Consumption Use	Not Assessed	Mouth of bay to Gallinipper Point	18			
Overall Fish Consumption Use	Not Supporting	Point Comfort area	2.5			
Overall Fish Consumption Use	Fully Supporting	Upper bay	18.8			
Oyster Waters Use						
TDH Maps	Fully Supporting	38.1 square miles in the remainder of the bay	38.1			
TDH Maps	Not Supporting	North end near Lavaca R. confl, near Port Lavaca, Pt Comfort, Chocolate Bay	16.7			
Overall Use Support						
	Fully Supporting	38.1 square miles in the remainder of the bay	38.1			
	Not Supporting	North end near Lavaca R. confl, near Port Lavaca, Pt Comfort, Chocolate Bay	16.7			
Nutrient Enrichment Concern						
Ammonia Nitrogen	No Concern	Gallinipper Point to SH 35	15.5	18	0	
Ammonia Nitrogen	No Concern	Mouth of bay to Gallinipper Point	18	20	1	
Ammonia Nitrogen	No Concern	Point Comfort area	2.5	20	1	
Ammonia Nitrogen	No Concern	Upper bay	18.8	22	0	
Nitrite + Nitrate Nitrogen	No Concern	Gallinipper Point to SH 35	15.5	18	2	
Nitrite + Nitrate Nitrogen	No Concern	Mouth of bay to Gallinipper Point	18	20	3	
Nitrite + Nitrate Nitrogen	No Concern	Point Comfort area	2.5	20	2	
Nitrite + Nitrate Nitrogen	No Concern	Upper bay	18.8	45	8	

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Estuary | Bays and Estuaries | Total size: 54.8 Sq. miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Nutrient Enrichment Concern (continued)						
Orthophosphorus	No Concern	Gallinipper Point to SH 35	15.5	17	0	
Orthophosphorus	No Concern	Mouth of bay to Gallinipper Point	18	18	0	
Orthophosphorus	No Concern	Point Comfort area	2.5	18	0	
Orthophosphorus	No Concern	Upper bay	18.8	44	2	
Total Phosphorus	No Concern	Gallinipper Point to SH 35	15.5	17	0	
Total Phosphorus	No Concern	Mouth of bay to Gallinipper Point	18	20	0	
Total Phosphorus	No Concern	Point Comfort area	2.5	20	0	
Total Phosphorus	No Concern	Upper bay	18.8	22	2	
Overall Nutrient Enrichment Concerns	No Concern	Gallinipper Point to SH 35	15.5			
Overall Nutrient Enrichment Concerns	No Concern	Mouth of bay to Gallinipper Point	18			
Overall Nutrient Enrichment Concerns	No Concern	Point Comfort area	2.5			
Overall Nutrient Enrichment Concerns	No Concern	Upper bay	18.8			
Algal Growth Concern						
Chlorophyll a	No Concern	Gallinipper Point to SH 35	15.5	18	1	
Chlorophyll a	No Concern	Mouth of bay to Gallinipper Point	18	20	2	
Chlorophyll a	No Concern	Point Comfort area	2.5	20	1	
Chlorophyll a	No Concern	Upper bay	18.8	20	0	
Sediment Contaminants Concern						
85% Metals in sediment Arsenic	No Concern	Point Comfort area	2.5	10	2	
85% Metals in sediment Barium	Not Assessed	Point Comfort area	2.5	9	1	
85% Metals in sediment Cadmium	Not Assessed	Point Comfort area	2.5	9	2	
85% Metals in sediment Chromium	Concern	Point Comfort area	2.5	10	7	
85% Metals in sediment Copper	No Concern	Point Comfort area	2.5	10	2	
85% Metals in sediment Lead	No Concern	Point Comfort area	2.5	10	2	

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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Sediment Contaminants Concern (continued)						
85% Metals in sediment Manganese	Concern	Point Comfort area	2.5	10	8	
85% Metals in sediment Mercury	Not Assessed	Point Comfort area	2.5	9	5	
85% Metals in sediment Nickel	Concern	Point Comfort area	2.5	10	6	
85% Metals in sediment Selenium	Not Assessed	Point Comfort area	2.5	9	2	
85% Metals in sediment Zinc	No Concern	Point Comfort area	2.5	10	1	
Metals in sediment	Not Assessed	Gallinipper Point to SH 35	15.5	4		
Metals in sediment	Not Assessed	Mouth of bay to Gallinipper Point	18	5		
Metals in sediment	Not Assessed	Upper bay	18.8	8		
Organics in sediment	Not Assessed	Mouth of bay to Gallinipper Point	18	1		
Organics in sediment	Not Assessed	Point Comfort area	2.5	5		
Organics in sediment	Not Assessed	Upper bay	18.8	3		
Overall Sediment Contaminant Concerns	Not Assessed	Gallinipper Point to SH 35	15.5			
Overall Sediment Contaminant Concerns	Not Assessed	Mouth of bay to Gallinipper Point	18			
Overall Sediment Contaminant Concerns	Concern	Point Comfort area	2.5			
Overall Sediment Contaminant Concerns	Not Assessed	Upper bay	18.8			
Fish Tissue Contaminants Concern						
Metals in fish tissue	Not Assessed	Point Comfort area	2.5	1		
Metals in fish tissue	Not Assessed	Upper bay	18.8	1		
Organics in fish tissue	Not Assessed	Upper bay	18.8	1		
Overall Fish Tissue Contaminant Concerns	Not Assessed	Gallinipper Point to SH 35	15.5			

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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Fish Tissue Contaminants Concern (continued)						
Overall Fish Tissue Contaminant Concerns	Not Assessed	Mouth of bay to Gallinipper Point	18			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Point Comfort area	2.5			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Upper bay	18.8			
Narrative Criteria Concern						
Overall Narrative Criteria Concerns	No Concern	Gallinipper Point to SH 35	15.5			
Overall Narrative Criteria Concerns	No Concern	Mouth of bay to Gallinipper Point	18			
Overall Narrative Criteria Concerns	No Concern	Point Comfort area	2.5			
Overall Narrative Criteria Concerns	No Concern	Upper bay	18.8			
Overall Secondary Concern						
	No Concern	Gallinipper Point to SH 35	15.5			
	No Concern	Mouth of bay to Gallinipper Point	18			
	Concern	Point Comfort area	2.5			
	No Concern	Upper bay	18.8			