

Segment ID: 1103

Water body name: Dickinson Bayou Tidal

Tidal Stream

San Jacinto-Brazos Coastal Basin Total size:

15 Miles

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

2002	Dissolved Oxygen grab average	Use Concern	Arcadia Cemetery Road to IH 45	3.2	47	19	
2002	Dissolved Oxygen grab average	Use Concern	Benson Bayou confluence to SH 3	0.8	70	14	
2002	Dissolved Oxygen grab average	Use Concern	IH 45 to Benson Bayou confluence	1.4	23	11	
2002	Dissolved Oxygen grab average	No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	1	
2002	Dissolved Oxygen grab average	No Concern	SH 3 to Mariners Mooring Road	2	24	0	
2002	Dissolved Oxygen grab average	Use Concern	Upper segment boundary to Arcadia Cemetery Road	1.6	48	26	
2002	Dissolved Oxygen grab average	No Concern	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	27	0	
2002	Dissolved Oxygen grab minimum	Not Supporting	Arcadia Cemetery Road to IH 45	3.2	47	16	
2002	Dissolved Oxygen grab minimum	Use Concern	Benson Bayou confluence to SH 3	0.8	70	8	
2002	Dissolved Oxygen grab minimum	Not Supporting	IH 45 to Benson Bayou confluence	1.4	23	8	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	1	
2002	Dissolved Oxygen grab minimum	Fully Supporting	SH 3 to Mariners Mooring Road	2	24	0	
2002	Dissolved Oxygen grab minimum	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	48	20	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	27	0	
2002	Dissolved Oxygen 24hr average	Not Assess-Not Represent	Arcadia Cemetery Road to IH 45	3.2	8	7	
2002	Dissolved Oxygen 24hr average	Partially Supporting	Benson Bayou confluence to SH 3	0.8	113	31	
2004	Dissolved Oxygen 24hr average	Partially Supporting	IH 45 to Benson Bayou confluence	1.4	9	4	
2002	Dissolved Oxygen 24hr average	Not Assessed	Mariners Mooring Road to upstream of Gum Bayou	0.5	0		
2004	Dissolved Oxygen 24hr average	Use Concern	SH 3 to Mariners Mooring Road	2	10	2	
2004	Dissolved Oxygen 24hr average	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	8	7	
2002	Dissolved Oxygen 24hr average	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	0		

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Aquatic Life Use (continued)

2002	Dissolved Oxygen 24hr minimum	Not Assess-Not Represent	Arcadia Cemetery Road to IH 45	3.2	8	7	
2002	Dissolved Oxygen 24hr minimum	Not Supporting	Benson Bayou confluence to SH 3	0.8	113	65	
2004	Dissolved Oxygen 24hr minimum	Partially Supporting	IH 45 to Benson Bayou confluence	1.4	9	4	
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Mariners Mooring Road to upstream of Gum Bayou	0.5	0		
2004	Dissolved Oxygen 24hr minimum	Use Concern	SH 3 to Mariners Mooring Road	2	10	2	
2004	Dissolved Oxygen 24hr minimum	Partially Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	8	4	
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	0		
2002	Overall Aquatic Life Use	Not Supporting	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall Aquatic Life Use	Not Supporting	Benson Bayou confluence to SH 3	0.8			
2004	Overall Aquatic Life Use	Partially Supporting	IH 45 to Benson Bayou confluence	1.4			
2002	Overall Aquatic Life Use	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2004	Overall Aquatic Life Use	Fully Supporting	SH 3 to Mariners Mooring Road	2			
2004	Overall Aquatic Life Use	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall Aquatic Life Use	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

Contact Recreation Use

2002	Enterococci single sample	Use Concern	Arcadia Cemetery Road to IH 45	3.2	46	14	
2002	Enterococci single sample	Use Concern	Benson Bayou confluence to SH 3	0.8	48	14	
2002	Enterococci single sample	Not Supporting	IH 45 to Benson Bayou confluence	1.4	22	15	
2002	Enterococci single sample	Use Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	6	
2002	Enterococci single sample	Fully Supporting	SH 3 to Mariners Mooring Road	2	23	4	
2002	Enterococci single sample	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	51	46	
2002	Enterococci single sample	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	24	2	

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Contact Recreation Use (continued)

2002	Enterococci geometric mean	Not Supporting	Arcadia Cemetery Road to IH 45	3.2	46		59.4
2002	Enterococci geometric mean	Not Supporting	Benson Bayou confluence to SH 3	0.8	48		47.11
2002	Enterococci geometric mean	Not Supporting	IH 45 to Benson Bayou confluence	1.4	22		190.9
2002	Enterococci geometric mean	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5	22		30.4
2002	Enterococci geometric mean	Fully Supporting	SH 3 to Mariners Mooring Road	2	23		9.38
2002	Enterococci geometric mean	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	51		158.2
2002	Enterococci geometric mean	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	24		5.71
2002	Fecal coliform single sample	Not Supporting	Arcadia Cemetery Road to IH 45	3.2	55	17	
2002	Fecal coliform single sample	Not Supporting	Benson Bayou confluence to SH 3	0.8	77	28	
2002	Fecal coliform single sample	Not Supporting	IH 45 to Benson Bayou confluence	1.4	22	13	
2002	Fecal coliform single sample	Use Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	7	
2002	Fecal coliform single sample	Use Concern	SH 3 to Mariners Mooring Road	2	31	10	
2002	Fecal coliform single sample	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	58	21	
2002	Fecal coliform single sample	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	34	5	
2002	Fecal coliform geometric mean	Not Supporting	Arcadia Cemetery Road to IH 45	3.2	55		227.8
2002	Fecal coliform geometric mean	Not Supporting	Benson Bayou confluence to SH 3	0.8	77		282.81
2002	Fecal coliform geometric mean	Not Supporting	IH 45 to Benson Bayou confluence	1.4	22		500.3
2002	Fecal coliform geometric mean	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5	22		154.1
2002	Fecal coliform geometric mean	Fully Supporting	SH 3 to Mariners Mooring Road	2	31		121.2
2002	Fecal coliform geometric mean	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	58		242.7
2002	Fecal coliform geometric mean	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	34		38.76
2002	Overall Recreation Use	Not Supporting	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall Recreation Use	Not Supporting	Benson Bayou confluence to SH 3	0.8			

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Contact Recreation Use (continued)

2002	Overall Recreation Use	Not Supporting	IH 45 to Benson Bayou confluence	1.4			
2002	Overall Recreation Use	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002	Overall Recreation Use	Fully Supporting	SH 3 to Mariners Mooring Road	2			
2002	Overall Recreation Use	Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall Recreation Use	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

General Use

2002	Water Temperature	Fully Supporting	Arcadia Cemetery Road to IH 45	3.2	47	0	
2002	Water Temperature	Fully Supporting	Benson Bayou confluence to SH 3	0.8	70	0	
2002	Water Temperature	Fully Supporting	IH 45 to Benson Bayou confluence	1.4	23	0	
2002	Water Temperature	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5	27	0	
2002	Water Temperature	Fully Supporting	SH 3 to Mariners Mooring Road	2	24	0	
2002	Water Temperature	Fully Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	48	0	
2002	Water Temperature	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	27	0	
2002	pH	Fully Supporting	Arcadia Cemetery Road to IH 45	3.2	47	0	
2002	pH	Fully Supporting	Benson Bayou confluence to SH 3	0.8	70	0	
2002	pH	Fully Supporting	IH 45 to Benson Bayou confluence	1.4	23	0	
2002	pH	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5	27	0	
2002	pH	Fully Supporting	SH 3 to Mariners Mooring Road	2	19	0	
2002	pH	Fully Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6	42	0	
2002	pH	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	21	1	
2002	Overall General Use	Fully Supporting	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall General Use	Fully Supporting	Benson Bayou confluence to SH 3	0.8			

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General Use (continued)

2002	Overall General Use	Fully Supporting	IH 45 to Benson Bayou confluence	1.4			
2002	Overall General Use	Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002	Overall General Use	Fully Supporting	SH 3 to Mariners Mooring Road	2			
2002	Overall General Use	Fully Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall General Use	Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

Fish Consumption Use

2002	Overall Fish Consumption Use	Not Assessed	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall Fish Consumption Use	Not Assessed	Benson Bayou confluence to SH 3	0.8			
2002	Overall Fish Consumption Use	Not Assessed	IH 45 to Benson Bayou confluence	1.4			
2002	Overall Fish Consumption Use	Not Assessed	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002	Overall Fish Consumption Use	Not Assessed	SH 3 to Mariners Mooring Road	2			
2002	Overall Fish Consumption Use	Not Assessed	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall Fish Consumption Use	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

Overall Use Support

2002		Not Supporting	Arcadia Cemetery Road to IH 45	3.2			
2002		Not Supporting	Benson Bayou confluence to SH 3	0.8			
2004		Not Supporting	IH 45 to Benson Bayou confluence	1.4			
2002		Fully Supporting	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2004		Fully Supporting	SH 3 to Mariners Mooring Road	2			
2004		Not Supporting	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002		Fully Supporting	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

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Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Nutrient Enrichment Concern							
2002	Ammonia Nitrogen	No Concern	Arcadia Cemetery Road to IH 45	3.2	44	0	
2002	Ammonia Nitrogen	No Concern	Benson Bayou confluence to SH 3	0.8	58	0	
2002	Ammonia Nitrogen	No Concern	IH 45 to Benson Bayou confluence	1.4	22	0	
2002	Ammonia Nitrogen	No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	0	
2002	Ammonia Nitrogen	No Concern	SH 3 to Mariners Mooring Road	2	22	1	
2002	Ammonia Nitrogen	No Concern	Upper segment boundary to Arcadia Cemetery Road	1.6	48	2	
2002	Ammonia Nitrogen	No Concern	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	24	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	Arcadia Cemetery Road to IH 45	3.2	46	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	Benson Bayou confluence to SH 3	0.8	58	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	IH 45 to Benson Bayou confluence	1.4	22	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	SH 3 to Mariners Mooring Road	2	22	1	
2002	Nitrite + Nitrate Nitrogen	No Concern	Upper segment boundary to Arcadia Cemetery Road	1.6	48	1	
2002	Nitrite + Nitrate Nitrogen	No Concern	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	24	0	
2002	Orthophosphorus	No Concern	Arcadia Cemetery Road to IH 45	3.2	22	0	
2002	Orthophosphorus	No Concern	Benson Bayou confluence to SH 3	0.8	35	0	
2002	Orthophosphorus	No Concern	IH 45 to Benson Bayou confluence	1.4	22	0	
2002	Orthophosphorus	No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	0	
2002	Orthophosphorus	Not Assessed	SH 3 to Mariners Mooring Road	2	0		
2002	Orthophosphorus	No Concern	Upper segment boundary to Arcadia Cemetery Road	1.6	22	0	
2002	Orthophosphorus	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	2	0	
2002	Total Phosphorus	No Concern	Arcadia Cemetery Road to IH 45	3.2	26	0	
2002	Total Phosphorus	No Concern	Benson Bayou confluence to SH 3	0.8	39	0	

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Nutrient Enrichment Concern (continued)

2002	Total Phosphorus	No Concern	IH 45 to Benson Bayou confluence	1.4	22	0	
2002	Total Phosphorus	No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5	22	0	
2002	Total Phosphorus	Not Assessed	SH 3 to Mariners Mooring Road	2	3	0	
2002	Total Phosphorus	No Concern	Upper segment boundary to Arcadia Cemetery Road	1.6	25	0	
2002	Total Phosphorus	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	5	0	
2002	Overall Nutrient Enrichment Concerns	No Concern	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall Nutrient Enrichment Concerns	No Concern	Benson Bayou confluence to SH 3	0.8			
2002	Overall Nutrient Enrichment Concerns	No Concern	IH 45 to Benson Bayou confluence	1.4			
2002	Overall Nutrient Enrichment Concerns	No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002	Overall Nutrient Enrichment Concerns	No Concern	SH 3 to Mariners Mooring Road	2			
2002	Overall Nutrient Enrichment Concerns	No Concern	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall Nutrient Enrichment Concerns	No Concern	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

Algal Growth Concern

2002	Chlorophyll a	Not Assessed	Arcadia Cemetery Road to IH 45	3.2	0		
2002	Chlorophyll a	No Concern	Benson Bayou confluence to SH 3	0.8	14	0	
2002	Chlorophyll a	Not Assessed	IH 45 to Benson Bayou confluence	1.4	0		
2002	Chlorophyll a	Not Assessed	Mariners Mooring Road to upstream of Gum Bayou	0.5	0		
2002	Chlorophyll a	Not Assessed	SH 3 to Mariners Mooring Road	2	0		
2002	Chlorophyll a	Not Assessed	Upper segment boundary to Arcadia Cemetery Road	1.6	0		

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Algal Growth Concern (continued)

2002	Chlorophyll a	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5	2	0	
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Sediment Contaminants Concern

2002	Overall Sediment Contaminant Concerns	Not Assessed	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Benson Bayou confluence to SH 3	0.8			
2002	Overall Sediment Contaminant Concerns	Not Assessed	IH 45 to Benson Bayou confluence	1.4			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002	Overall Sediment Contaminant Concerns	Not Assessed	SH 3 to Mariners Mooring Road	2			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

Fish Tissue Contaminants Concern

2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Benson Bayou confluence to SH 3	0.8			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	IH 45 to Benson Bayou confluence	1.4			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	SH 3 to Mariners Mooring Road	2			

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Fish Tissue Contaminants Concern (continued)

2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

Narrative Criteria Concern

2002	Overall Narrative Criteria Concerns	No Concern	Arcadia Cemetery Road to IH 45	3.2			
2002	Overall Narrative Criteria Concerns	No Concern	Benson Bayou confluence to SH 3	0.8			
2002	Overall Narrative Criteria Concerns	No Concern	IH 45 to Benson Bayou confluence	1.4			
2002	Overall Narrative Criteria Concerns	No Concern	SH 3 to Mariners Mooring Road	2			
2002	Overall Narrative Criteria Concerns	No Concern	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002	Overall Narrative Criteria Concerns	No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002	Overall Narrative Criteria Concerns	No Concern	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			

Overall Secondary Concern

2002		No Concern	Arcadia Cemetery Road to IH 45	3.2			
2002		No Concern	Benson Bayou confluence to SH 3	0.8			
2002		No Concern	IH 45 to Benson Bayou confluence	1.4			
2002		No Concern	Mariners Mooring Road to upstream of Gum Bayou	0.5			
2002		No Concern	SH 3 to Mariners Mooring Road	2			
2002		No Concern	Upper segment boundary to Arcadia Cemetery Road	1.6			
2002		No Concern	Upstream Gum Bayou to lower segment boundary (below SH 146)	5.5			