

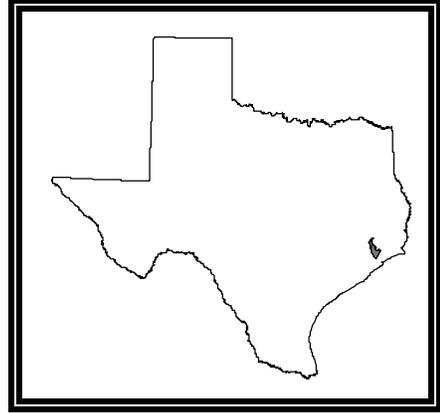
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Basin 09

Trinity–San Jacinto Coastal



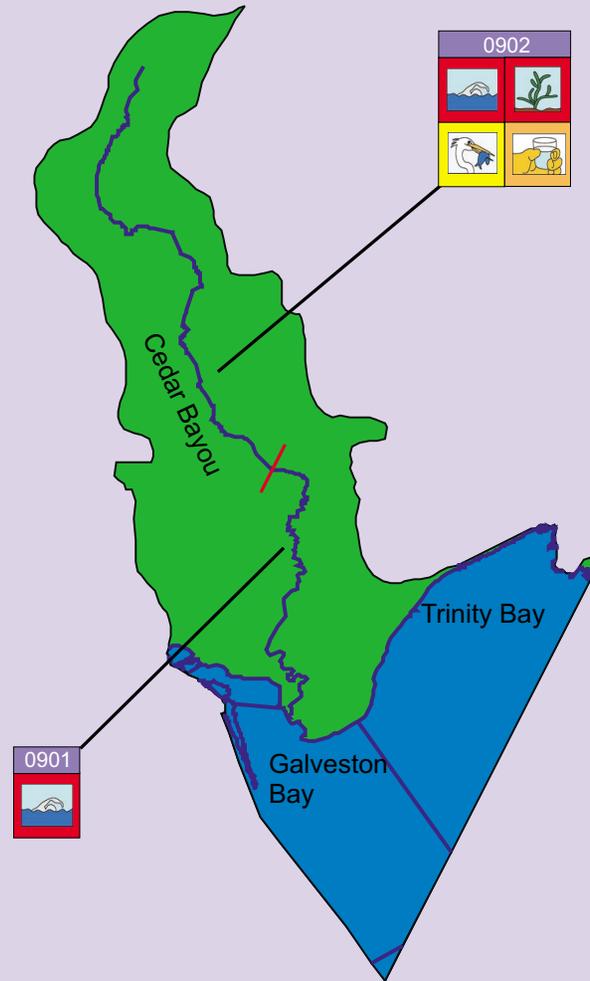
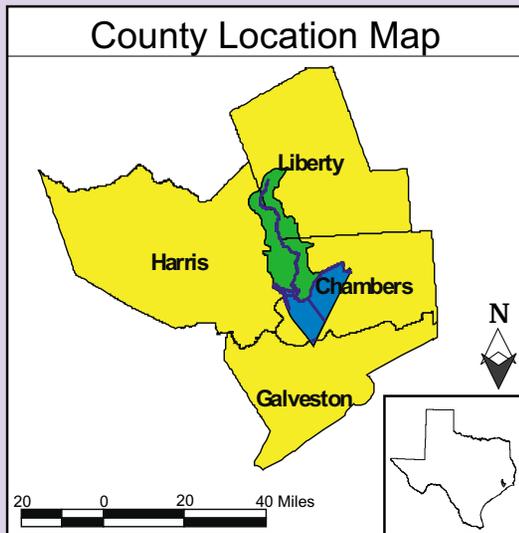
Trinity–San Jacinto Coastal Basin Narrative Summary

The coastal plain between the Trinity River and San Jacinto River forms the Trinity–San Jacinto Coastal Basin. The basin includes an area of 247 square miles which drains to Galveston Bay and Trinity Bay.

Two segments consisting of 44 stream miles are located in the basin. The basin is located in parts of Harris, Chambers, and Liberty Counties. The economy of the basin is based primarily on petroleum refining, petrochemical industries, agriculture, manufacturing, and water-oriented recreation.

Elevated levels of fecal coliform bacteria and nutrients occur in both segments. Elevated concentrations of total dissolved solids occur in Cedar Bayou above tidal.

Trinity-San Jacinto Coastal Basin Identified Water Quality Issues

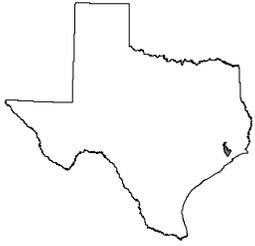


Trinity–San Jacinto Coastal Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 0901 Cedar Bayou Tidal	Segment 0902 Cedar Bayou Above Tidal								
DESIGNATED USE SUPPORT										
Contact Recreation	N	N								
Noncontact Recreation	X	X								
Public Water Supply	X	S								
Fish Consumption										
Human Health	NA	S								
Advisories/Closures	NA	NA								
Aquatic Life										
Dissolved Oxygen (Grab)	S	P								
Dissolved Oxygen (24-Hour)	NA	NA								
Metals in Water	NA	NA								
Organics in Water	NA	NA								
Water Toxicity Tests	NA	S								
Sediment Toxicity Tests	NA	NA								
Macrobenthos	NA	NA								
Fish	NA	NA								
GENERAL USE SUPPORT										
Water Temperature	S	S								
pH	S	S								
Chloride	X	S								
Sulfate	X	S								
Total Dissolved Solids	X	N								

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern;
 NA = Not Assessed; X = Not Applicable

Trinity–San Jacinto Coastal Basin Graphical Summary (Continued)

Basin Map	Water Bodies									
	Segment 0901 Cedar Bayou Tidal	Segment 0902 Cedar Bayou Above Tidal								
										
WATER QUALITY CONCERNS										
Contact Recreation	X	X								
Noncontact Recreation	X	X								
Fish Tissue	NA	NA								
Sediment	NA	NA								
Narrative	NC	NC								
Nutrient Enrichment										
Ammonia Nitrogen	NC	NC								
Nitrite + Nitrate Nitrogen	NC	NC								
Orthophosphorus	NC	NC								
Total Phosphorus	NC	NC								
Chlorophyll <i>a</i>	NC	NC								
Public Water Supply										
Finished Water Chloride	X	NC								
Finished Water Sulfate	X	NC								
Finished Water TDS	X	NC								
Surface Water Chloride	X	NC								
Surface Water Sulfate	X	NC								
Surface Water TDS	X	C								
Aquatic Life										
Dissolved Oxygen	X	X								
Metals in Water	NA	NA								
Organics in Water	NA	NA								
Water Toxicity Tests	NA	X								
Sediment Toxicity Tests	NA	NA								

Trinity–San Jacinto Coastal Basin

Segment 0901 - Cedar Bayou Tidal

Water body description: From the confluence with Galveston Bay 1.0 km (0.6 miles) downstream of Tri-City Beach Road in Chambers County to a point 2.2 km (1.4 miles) upstream of IH 10 in Chambers/Harris County

Water body classification: Classified

Water body type: Tidal Stream

Water body length / area: 19.00 Miles

Use support summary: The contact recreation use is not supported due to elevated fecal coliform bacteria densities. The aquatic life use and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1998 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A project is scheduled for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
11111	Cedar Bayou Tidal at Roseland Park boat ramp, 400 meters upstream of Spur 55

Published studies

Publication	Date	Author
IS 89-07 Cedar Bayou Tidal	June 1987	Kirkpatrick, J.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	4
Industrial	23

Trinity–San Jacinto Coastal Basin

Segment 0902 - Cedar Bayou Above Tidal

Water body description: From a point 2.2 km (1.4 miles) upstream of IH 10 in Chambers/Harris County to a point 7.4 km (4.6 miles) upstream of FM 1960 in Liberty County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 25.00 Miles

Use support summary: The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. General uses are not supported due to the elevated average total dissolved solid concentration. The contact recreation use is not supported due to elevated fecal coliform densities. The public water supply use is fully supported through the entire segment. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary:

The average concentration of total dissolved solids in surface water is a drinking water concern.

Additional information:

A wasteload evaluation (WLE) for dissolved oxygen was approved in 1998 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

Projects are scheduled for fecal coliform bacteria and total dissolved solids to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
11120	Cedar Bayou at US 90 NE of Crosby

Published studies

Publication	Date	Author
IS 89-07 Cedar Bayou Above Tidal	June 1987	Kirkpatrick, J.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	7
Industrial	9