

## Sam Rayburn Reservoir

Segment: 0610 Neches River Basin

**Basin number:** 6  
**Basin group:** A  
**Water body description:** From Sam Rayburn Dam in Jasper County to a point 5.6 kilometers (3.5 miles) upstream of Marion's Ferry on the Angelina River Arm in Angelina/Nacogdoches County and to a point 3.9 km (2.4 miles) downstream of Curry Creek on the Attoyac Bayou Arm in Nacogdoches/San Augustine County, up to the normal pool elevation of 164 ft (except on the Angelina River Arm)(impounds Angelina River and Attoyac Bayou)  
**Water body classification:** Classified  
**Water body type:** Reservoir  
**Water body length / area:** 114,500 Acres  
**Water body uses:** Aquatic Life Use, Contact Recreation Use, General Use, Fish Consumption Use, Public Water Supply Use

<b>Standards Not Met in 2004</b>				
<b>Assessment Area</b>	<b>Use</b>	<b>Support Status</b>	<b>Parameter</b>	<b>Category</b>
Bear Creek arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Extreme upper Angelina River arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Lower Angelina River arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Lower Attoyac Bayou arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Lower Ayish Bayou arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Main pool by the dam	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Mid-Angelina River arm (SH 147)	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Upper Angelina River arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Upper Attoyac Bayou arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Upper Ayish Bayou arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c
Upper mid-Angelina River arm	Fish Consumption Use	Partially Supporting	mercury in largemouth bass and freshwater drum	5c

(-based on data from 03/01/1998 to 02/28/2003)

<b>Standards Not Met and Concerns in Previous Years</b> Assessment Area	Use	Support Status or Concern	Parameter	Category
Lower Attoyac Bayou arm	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Upper Angelina River arm	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Upper Ayish Bayou arm	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Upper mid-Angelina River arm	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c

**Parameters Removed from the 2002 303(d) List:** aluminum in water

**Additional Information:** The contact recreation, public water supply and general uses are fully supported.

This segment was identified on the 2000 303(d) List as partially supporting the aquatic life use due to depressed dissolved oxygen. 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. There were insufficient 24-hour data for 2004.

<b>2004 Concerns:</b> Assessment Area	Use or Concern	Concern Status	Description of Concern
Bear Creek arm	Sediment Contaminants Concern	Concern	arsenic in sediment
Bear Creek arm	Narrative Criteria Concern	Concern	metals in sediment
Extreme upper Angelina River arm	Sediment Contaminants Concern	Concern	arsenic in sediment
Extreme upper Angelina River arm	Narrative Criteria Concern	Concern	metals in sediment
Lower Angelina River arm	Sediment Contaminants Concern	Concern	arsenic in sediment
Lower Angelina River arm	Narrative Criteria Concern	Concern	metals in sediment
Main pool by the dam	Sediment Contaminants Concern	Concern	arsenic in sediment
Main pool by the dam	Narrative Criteria Concern	Concern	metals in sediment
Mid-Angelina River arm (SH 147)	Sediment Contaminants Concern	Concern	arsenic in sediment
Mid-Angelina River arm (SH 147)	Narrative Criteria Concern	Concern	metals in sediment
Upper Angelina River arm	Aquatic Life Use	Use Concern	depressed dissolved oxygen
Upper Angelina River arm	Nutrient Enrichment Concern	Concern	total phosphorus
Upper Angelina River arm	Sediment Contaminants Concern	Concern	arsenic in sediment
Upper Angelina River arm	Sediment Contaminants Concern	Concern	zinc in sediment
Upper Angelina River arm	Narrative Criteria Concern	Concern	metals in sediment
Upper Attoyac Bayou arm	Aquatic Life Use	Use Concern	depressed dissolved oxygen
Upper Ayish Bayou arm	Sediment Contaminants Concern	Concern	arsenic in sediment
Upper Ayish Bayou arm	Narrative Criteria Concern	Concern	metals in sediment

<b>Monitoring sites used:</b>		
<b>Assessment Area</b>	<b>Station ID</b>	<b>Station Description</b>
Bear Creek arm	15527	SAM RAYBURN RESERVOIR NEAR MILL CREEK PARK IN THE BEAR CREEK CHANNEL
Bear Creek arm	15674	SAM RAYBURN RESERVOIR USGS SITE LC
Bear Creek arm	16787	SAM RAYBURN RESERVOIR AT MILL CREEK PARK SWIMMING AREA, 1.5MI EAST OF US96 AND STATE LOOP 149 INTERSECTION IN BROOKLAND
Extreme upper Angelina River arm	10615	SAM RAYBURN RESERVOIR AT MARION'S FERRY
Extreme upper Angelina River arm	15525	SAM RAYBURN RESERVOIR AT KINGTOWN ABOUT .25 MI. UPSTREAM OF THE ANGELINA RIVER CHANNEL IN CARIZZO BAYOU
Extreme upper Angelina River arm	16789	SAM RAYBURN RESERVOIR AT MARION FERRY BOAT RAMP, 1.9MI NORTH OF FM1669 AND SH103 INTERSECTION
Lower Angelina River arm	15522	SAM RAYBURN RESERVOIR NEAR VEACH BASIN IN THE ANGELINA RIVER CHANNEL
Lower Angelina River arm	15670	SAM RAYBURN RESERVOIR USGS SITE GC
Lower Angelina River arm	15671	SAM RAYBURN RESERVOIR USGS SITE FC
Lower Attoyac Bayou arm	15523	SAM RAYBURN RESERVOIR ADJACENT TO ALLIGATOR COVE IN THE ATTOYAC RIVER CHANNEL
Lower Attoyac Bayou arm	15667	SAM RAYBURN RESERVOIR USGS SITE IC
Lower Attoyac Bayou arm	16791	SAM RAYBURN RESERVOIR AT JACKSON HILL MARINA SWIMMING AREA, 1.5MI NW OF SH147 AND FM2851 INTERSECTION
Lower Ayish Bayou arm	15526	SAM RAYBURN RESERVOIR BETWEEN NEEDMORE POINT AND POWELL PARK IN THE AYISH BAYOU CHANNEL
Lower Ayish Bayou arm	15673	SAM RAYBURN RESERVOIR USGS SITE AC
Lower Ayish Bayou arm	15675	SAM RAYBURN RESERVOIR USGS SITE MC
Lower Ayish Bayou arm	16784	SAM RAYBURN RESERVOIR AT SAN AUGUSTINE PARK SWIMMING AREA, 3.5MI SOUTH OF FM83 AND FM1751 INTERSECTION
Main pool by the dam	14906	SAM RAYBURN RESERVOIR AT MAIN POOL APPROXIMATELY 0.94 KM NORTH OF THE POWER PLANT INTAKE
Main pool by the dam	15672	SAM RAYBURN RESERVOIR USGS SITE CC
Main pool by the dam	16786	SAM RAYBURN RESERVOIR AT EBENEZER PARK SWIMMING AREA, 1.2MI NW OF POWER PLANT INTAKE
Mid-Angelina River arm (SH 147)	10612	SAM RAYBURN RESERVOIR AT SH 147 BRIDGE SW OF BROADDUS AND NE OF ZAVALLA
Mid-Angelina River arm (SH 147)	16790	SAM RAYBURN RESERVOIR AT CASSEL-BOYKIN PARK BOAT RAMP, 0.9MI NW OF SH147 AND FM3123 INTERSECTION
Upper Angelina River arm	10613	SAM RAYBURN RESERVOIR AT SH 103, 2.3 MI. WEST OF ETOILE
Upper Attoyac Bayou arm	10614	SAM RAYBURN RESERVOIR AT SH 103, 6.5 MI. EAST OF ETOILE
Upper Ayish Bayou arm	14907	SAM RAYBURN RESERVOIR AT FM 83 BRIDGE CROSSING APPROXIMATELY 14.5 KM WEST OF PINELAND
Upper mid-Angelina River arm	15524	SAM RAYBURN RESERVOIR NEAR SHIRLEY CREEK IN THE ANGELINA RIVER CHANNEL
Upper mid-Angelina River arm	15669	SAM RAYBURN RESERVOIR USGS SITE JC
Upper mid-Angelina River arm	16792	SAM RAYBURN RESERVOIR AT HANKS CREEK PARK BOAT RAMP, 10.3MI EAST OF CITY OF HUNTINGTON
Upper mid-Angelina River arm	16793	SAM RAYBURN RESERVOIR AT SHIRLEY CREEK MARINA BOAT RAMP, 5.6MI SE OF FM226 AND SH103 INTERSECTION IN ETOILE

(-based on data from 03/01/1998 to 02/28/2003)

<b>Published studies: Publication</b>	<b>Date</b>	<b>Author</b>
IMS 12 Sam Rayburn Reservoir	Nov. 1973	Kirkpatrick, J.

<b>Historical fish kills:</b>	<b>Date</b>	<b>Location</b>	<b>Fish Killed</b>	<b>Suspected Cause</b>
	7/3/1998	Sam Rayburn Reservoir- main pool below SH 147 - 1.5 miles NW of R255 @ FM 1007	1771	Unknown