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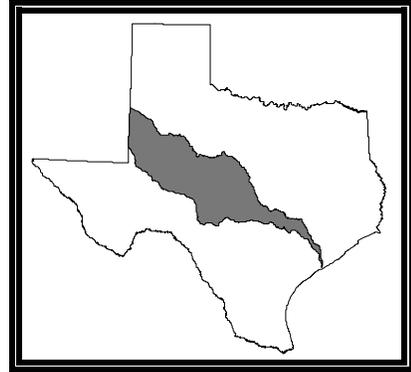
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# Basin 14

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## Colorado River



## Colorado River Basin Narrative Summary

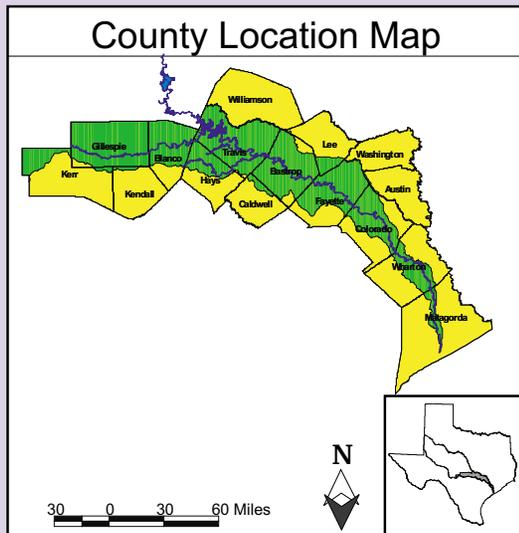
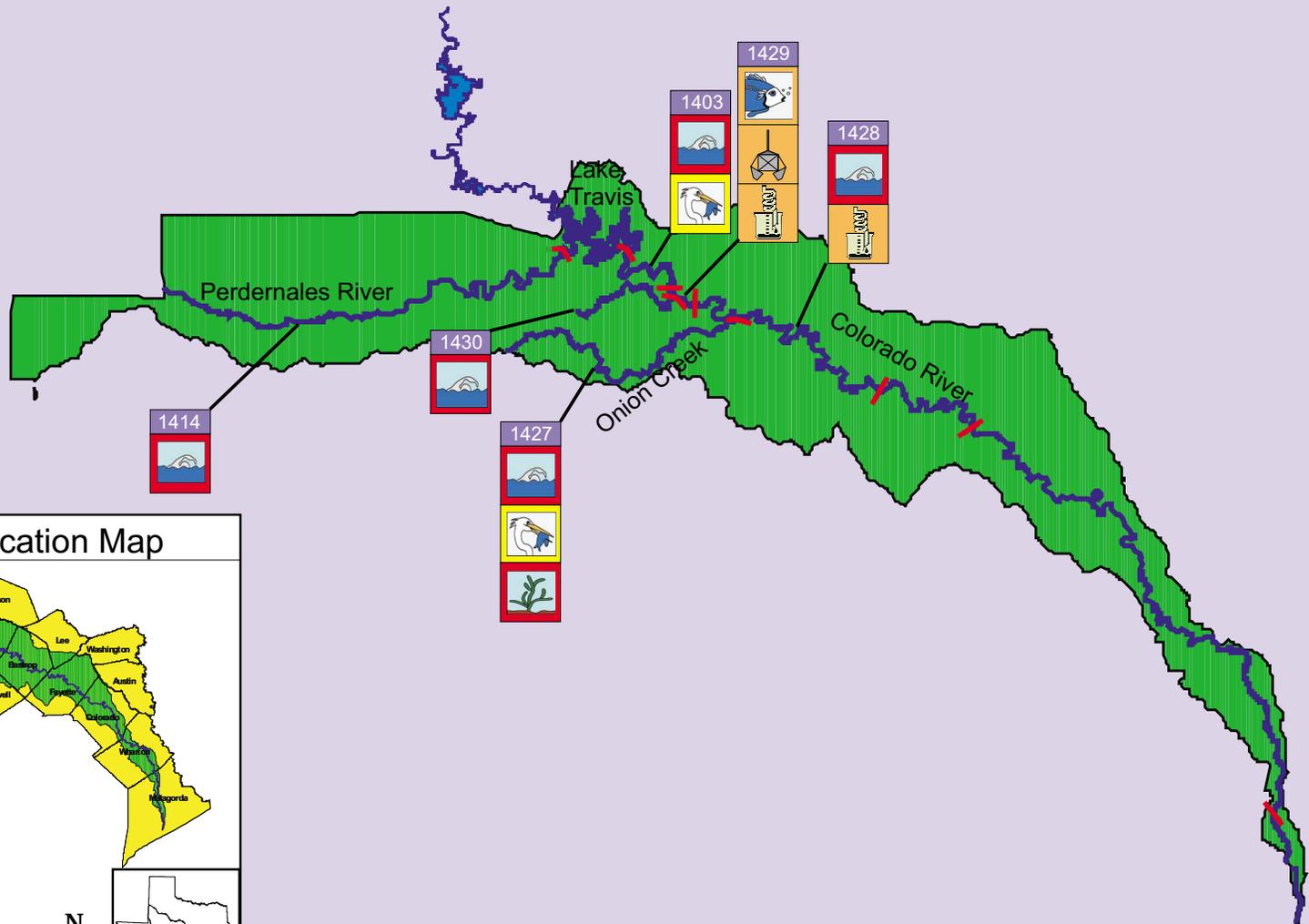
The headwaters of the Colorado River begin in eastern Dawson County. The river flows approximately 600 miles to Matagorda Bay in the Gulf of Mexico. Major tributaries to the Colorado are: the North and South Concho River near San Angelo; San Saba River near San Saba; Pecan Bayou near Brownwood; Llano River near Llano; Pedernales River near Johnson City; and Barton Creek and Onion Creek near Austin. Total basin drainage area in Texas is 39,893 square miles. Austin is the largest city in the basin, followed by Odessa, San Angelo, Midland, Big Spring, and Brownwood.

For water quality management purposes, the Colorado River Basin has been divided into 34 segments consisting of 1,583 stream miles. Fifteen major reservoirs are located throughout the basin, which cover 119,587 surface acres.

Lake J. B. Thomas, the most upstream reservoir, has good water quality. Downstream of the reservoir, water quality deteriorates due to oil field activities and natural salt deposits. The water quality of the Concho, Llano, and Pedernales Rivers is good, with periodic depressed dissolved oxygen concentrations and elevated fecal coliform densities. Elevated fecal coliform densities found in many of the tributary streams in the Austin area originate mostly from unidentified nonpoint source runoff.

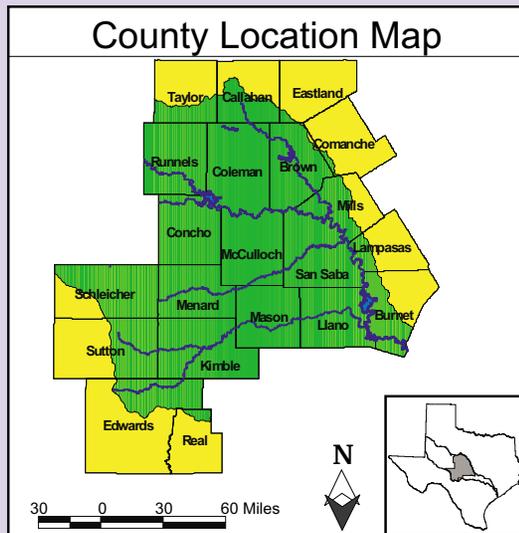
The largest citizen-based monitoring program in the state, the Colorado River Watch Network (CRWN), extends from the mouth of the Colorado River upstream past Lake Buchanan. Volunteers sample 10 mainstem segments of the Colorado River and many of its tributaries. Sampling is conducted monthly for about seven different constituents. Funding and support for the CRWN is provided by the LCRA and the CRP.

# Lower Colorado River Basin Identified Water Quality Issues



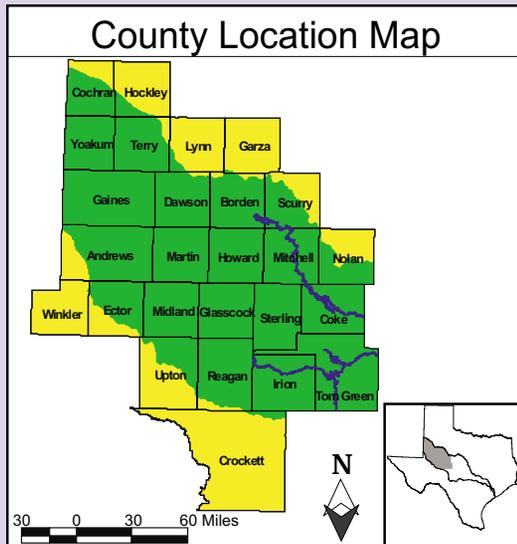


# Middle Colorado River Basin Identified Water Quality Issues





# Upper Colorado River Basin Identified Water Quality Issues



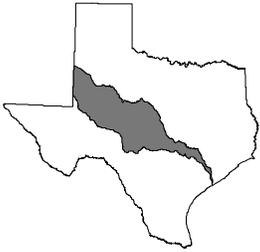


# Colorado River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1401 Colorado River Tidal	Segment 1402 Colorado River Below La Grange	Segment 1402A Cummins Creek	Segment 1403 Lake Austin	Segment 1403A Bull Creek	Segment 1404 Lake Travis	Segment 1405 Marble Falls Lake	Segment 1406 Lake Lyndon B. Johnson	Segment 1406A Sandy Creek	Segment 1407 Inks Lake
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	S	S	N	N	S	S	S	S	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	S	X	S	X	S	S	S	X	S
<b>Fish Consumption</b>										
Human Health	NA	S	S	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	S	S	P	S	S	S	S	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	S	S	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	S	S	X	S	X	S	S	S	X	S
pH	S	S	X	S	X	S	S	S	X	S
Chloride	S	S	X	S	X	S	S	S	X	S
Sulfate	S	S	X	S	X	S	S	S	X	S
Total Dissolved Solids	S	S	X	S	X	S	S	S	X	S

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

**Colorado River Basin Graphical Summary (Continued)**

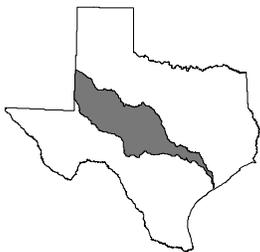
Basin Map	Water Bodies									
	Segment 1401 Colorado River Tidal	Segment 1402 Colorado River Below La Grange	Segment 1402A Cummins Creek	Segment 1403 Lake Austin	Segment 1403A Bull Creek	Segment 1404 Lake Travis	Segment 1405 Marble Falls Lake	Segment 1406 Lake Lyndon B. Johnson	Segment 1406A Sandy Creek	Segment 1407 Inks Lake
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	X	X	X	X	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total Phosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Chlorophyll <i>a</i>	NA	NA	NC	NA	NA	NA	NA	NA	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	X	NC	X	NC	X	NC	NC	NC	X	NC
Finished Water Sulfate	X	NC	X	NC	X	NC	NC	NC	X	NC
Finished Water TDS	X	NC	X	NC	X	NC	NC	NC	X	NC
Surface Water Chloride	X	NC	X	NC	X	NC	NC	NC	X	NC
Surface Water Sulfate	X	NC	X	NC	X	NC	NC	NC	X	NC
Surface Water TDS	X	NC	X	NC	X	NC	NC	NC	X	NC
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X
Metals in Water	NA	X	X	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Colorado River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1408 Lake Buchanan	Segment 1409 Colorado River Above Lake Buchanan	Segment 1410 Colorado River Below O.H. Ivie Reservoir	Segment 1411 E. V. Spence Reservoir	Segment 1412 Colorado River Below Lake J.B. Thomas	Segment 1412A Lake Colorado City	Segment 1412B Beals Creek	Segment 1413 Lake J.B. Thomas	Segment 1414 Pedernales River	Segment 1415 Llano River
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	S	S	NA	S	NA	S	NA	N	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	S	S	S	S	X	S	X	X	S	S
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	NA	S	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	S	S	NA	S	NA	S	NA	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	S	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	S	S	S	NA	S	X	X	NA	S	S
pH	S	S	S	NA	S	X	X	NA	S	S
Chloride	S	S	S	NA	S	X	X	NA	S	S
Sulfate	S	S	S	NA	S	X	X	NA	S	S
Total Dissolved Solids	S	S	S	NA	S	X	X	NA	S	S

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

**Colorado River Basin Graphical Summary (Continued)**

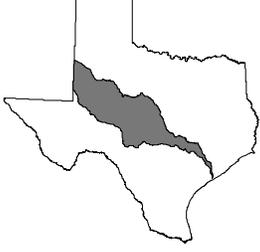
Basin Map	Water Bodies									
	Segment 1408 Lake Buchanan	Segment 1409 Colorado River Above Lake Buchanan	Segment 1410 Colorado River Below O.H. Ivie Reservoir	Segment 1411 E. V. Spence Reservoir	Segment 1412 Colorado River Below Lake J.B. Thomas	Segment 1412A Lake Colorado City	Segment 1412B Beals Creek	Segment 1413 Lake J.B. Thomas	Segment 1414 Pedernales River	Segment 1415 Llano River
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	NA	X	NA	X	NA	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	NC	NC	NA	NC	NA	NC	NA	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NA	NC	NA	NC	NA	NC	NC
Orthophosphorus	NC	NC	NC	NA	NC	NA	NC	NA	NC	NC
Total Phosphorus	NC	NC	NC	NA	NC	NA	NC	NA	NC	NC
Chlorophyll <i>a</i>	NA	NA	NA	NA	C	NA	C	NA	NC	NC
<b>Public Water Supply</b>										
Finished Water Chloride	NC	NC	NC	C	X	C	X	NA	NC	NC
Finished Water Sulfate	NC	NC	NC	C	X	C	X	NA	NC	NC
Finished Water TDS	NC	NC	NC	C	X	C	X	NA	NC	NC
Surface Water Chloride	NC	NC	NC	NA	X	C	X	NA	NC	NC
Surface Water Sulfate	NC	NC	NC	NA	X	C	X	NA	NC	NC
Surface Water TDS	NC	NC	NC	NA	X	C	X	NA	NC	NC
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	NA	X	NA	X	NA	X	X
Metals in Water	NA	NA	NA	NA	X	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Colorado River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1415A Johnson Fork Creek	Segment 1416 San Saba River	Segment 1416A Brady Creek	Segment 1417 Lower Pecan Bayou	Segment 1418 Lake Brownwood	Segment 1418A Hords Creek	Segment 1419 Lake Coleman	Segment 1420 Pecan Bayou Above Lake Brownwood	Segment 1421 Concho River	Segment 1422 Lake Nasworthy
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	S	S	S	NA	S	NA	S	S	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	S	X	X	S	X	S	S	S	S
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	S	NA	NA	NA	NA	S	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	S	S	S	NA	S	NA	P	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	S	NA	NA	NA	NA	S	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	S	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	X	S	S	S	NA	X	NA	S	S	S
pH	X	S	S	S	NA	X	NA	S	S	S
Chloride	X	S	S	S	NA	X	NA	S	S	S
Sulfate	X	S	S	S	NA	X	NA	S	S	S
Total Dissolved Solids	X	S	S	S	NA	X	NA	S	S	S

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

**Colorado River Basin Graphical Summary (Continued)**

Basin Map	Water Bodies									
	Segment 1415A Johnson Fork Creek	Segment 1416 San Saba River	Segment 1416A Brady Creek	Segment 1417 Lower Pecan Bayou	Segment 1418 Lake Brownwood	Segment 1418A Hords Creek	Segment 1419 Lake Coleman	Segment 1420 Pecan Bayou Above Lake Brownwood	Segment 1421 Concho River	Segment 1422 Lake Nasworthy
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	X	NA	X	NA	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	NC	NC	NC	NA	NC	NA	NC	NC	NC
Nitrite + Nitrate Nitrogen	NA	NC	NC	NC	NA	NA	NA	NC	C	NA
Orthophosphorus	NA	NC	NC	NC	NA	NA	NA	NC	NC	NA
Total Phosphorus	NC	NC	C	NC	NA	NC	NA	NC	NC	NC
Chlorophyll <i>a</i>	NC	NC	C	NA	NA	NC	NA	NC	C	NC
<b>Public Water Supply</b>										
Finished Water Chloride	X	NC	NC	X	NA	X	NA	NC	C	NC
Finished Water Sulfate	X	NC	NC	X	NA	X	NA	NC	C	NC
Finished Water TDS	X	NC	NC	X	NA	X	NA	NC	C	NC
Surface Water Chloride	X	NC	NC	X	NA	X	NA	NC	C	NC
Surface Water Sulfate	X	NC	NC	X	NA	X	NA	NC	NC	NC
Surface Water TDS	X	NC	NC	X	NA	X	NA	C	C	NC
<b>Aquatic Life</b>										
Dissolved Oxygen	X	X	X	X	NA	X	NA	X	X	X
Metals in Water	NA	NA	NA	X	NA	NA	NA	NA	X	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	X	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Colorado River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1423 Twin Buttes Reservoir	Segment 1423A Spring Creek	Segment 1424 Middle Concho/ South Concho River	Segment 1424A West Rocky Creek	Segment 1425 O.C. Fisher Lake	Segment 1426 Colorado River Below E. V. Spence Reservoir	Segment 1426A Oak Creek Reservoir	Segment 1427 Onion Creek	Segment 1427A Slaughter Creek	Segment 1427B Williamson Creek
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	NA	S	S	S	NA	S	NA	N	N	N
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	S	X	S	X	S	S	S	S	X	X
<b>Fish Consumption</b>										
Human Health	NA	NA	NA	NA	NA	NA	NA	S	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	NA	S	S	NA	NA	S	NA	P	NA	NA
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	NA	NA	S	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	NA	X	S	X	NA	S	X	S	X	X
pH	NA	X	S	X	NA	S	X	S	X	X
Chloride	NA	X	S	X	NA	S	X	S	X	X
Sulfate	NA	X	S	X	NA	S	X	N	X	X
Total Dissolved Solids	NA	X	S	X	NA	N	X	N	X	X

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

**Colorado River Basin Graphical Summary (Continued)**

Basin Map	Water Bodies									
	Segment 1423 Twin Buttes Reservoir	Segment 1423A Spring Creek	Segment 1424 Middle Concho/ South Concho River	Segment 1424A West Rocky Creek	Segment 1425 O.C. Fisher Lake	Segment 1426 Colorado River Below E.V. Spence Reservoir	Segment 1426A Oak Creek Reservoir	Segment 1427 Onton Creek	Segment 1427A Slaughter Creek	Segment 1427B Williamson Creek
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	NA	X	X	X	NA	X	NA	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NA	NC	NC	NC	NA	NC	NA	NC	NA	NA
Nitrite + Nitrate Nitrogen	NA	NC	NC	NA	NA	NC	NA	NC	NA	NA
Orthophosphorus	NA	NC	NC	NA	NA	NC	NA	NC	NC	NC
Total Phosphorus	NA	NC	NC	NA	NA	NC	NA	NC	NC	NC
Chlorophyll <i>a</i>	NA	NC	NC	NC	NA	NC	NA	NC	NA	NA
<b>Public Water Supply</b>										
Finished Water Chloride	NC	X	NC	X	NC	NC	NC	NC	X	X
Finished Water Sulfate	NC	X	NC	X	NC	NC	C	NC	X	X
Finished Water TDS	NC	X	NC	X	NC	NC	NC	NC	X	X
Surface Water Chloride	NA	X	NC	X	NC	C	NA	NC	X	X
Surface Water Sulfate	NA	X	NC	X	NC	C	NA	NC	X	X
Surface Water TDS	NA	X	NC	X	NC	C	NA	NC	X	X
<b>Aquatic Life</b>										
Dissolved Oxygen	NA	X	X	NA	NA	X	NA	X	NA	NA
Metals in Water	NA	NA	NA	NA	NA	NA	NA	X	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Colorado River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1427C Bear Creek	Segment 1428 Colorado River Below Town Lake	Segment 1428A Boggy Creek	Segment 1428B Walnut Creek	Segment 1428C Gilleland Creek	Segment 1429 Town Lake	Segment 1429A Shoal Creek	Segment 1429B Eanes Creek	Segment 1430 Barton Creek	Segment 1431 Mid Pecan Bayou
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	N	N	N	N	N	S	N	N	N	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	S	X	X	X	S	X	X	X	X
<b>Fish Consumption</b>										
Human Health	NA	S	NA	NA	NA	NA	NA	NA	S	NA
Advisories/Closures	NA	NA	NA	NA	NA	S	NA	NA	NA	NA
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	NA	S	NA	NA	S	S	NA	NA	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	S	S	S	NA	NA	S	NA	S	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	SA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>GENERAL USE SUPPORT</b>										
Water Temperature	X	S	X	X	X	S	X	X	S	S
pH	X	S	X	X	X	S	X	X	S	S
Chloride	X	S	X	X	X	S	X	X	S	S
Sulfate	X	S	X	X	X	S	X	X	S	S
Total Dissolved Solids	X	S	X	X	X	S	X	X	S	S

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 NA = Not Assessed; X = Not Applicable

**Colorado River Basin Graphical Summary (Continued)**

Basin Map	Water Bodies									
	Segment 1427C Bear Creek	Segment 1428 Colorado River Below Town Lake	Segment 1428A Boggy Creek	Segment 1428B Walnut Creek	Segment 1428C Gilleland Creek	Segment 1429 Town Lake	Segment 1429A Shoal Creek	Segment 1429B Eanes Creek	Segment 1430 Barton Creek	Segment 1431 Mid Pecan Bayou
										
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	X	X	X	X	X	X	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	C	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	C	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NA	NC	NA	NA	NC	NC	NA	NA	NC	NC
Nitrite + Nitrate Nitrogen	NA	C	NA	NA	NC	C	NA	NA	NC	C
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NA	NC	C
Total Phosphorus	NC	NC	NC	NC	NC	NC	NC	NA	NC	C
Chlorophyll <i>a</i>	NA	NC	NA	NA	NA	NC	NA	NA	NC	NC
<b>Public Water Supply</b>										
Finished Water Chloride	X	NC	X	X	X	NC	X	X	X	X
Finished Water Sulfate	X	NC	X	X	X	NC	X	X	X	X
Finished Water TDS	X	NC	X	X	X	NC	X	X	X	X
Surface Water Chloride	X	NC	X	X	X	NC	X	X	X	X
Surface Water Sulfate	X	NC	X	X	X	NC	X	X	X	X
Surface Water TDS	X	NC	X	X	X	NC	X	X	X	X
<b>Aquatic Life</b>										
Dissolved Oxygen	NA	X	NA	NA	X	X	NA	NA	X	X
Metals in Water	NA	X	X	X	NA	NA	X	NA	X	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	X	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Colorado River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1432 Upper Pecan Bayou	Segment 1433 O.H. Ivie Reservoir	Segment 1434 Colorado River Above La Grange							
<b>DESIGNATED USE SUPPORT</b>										
Contact Recreation	S	NA	S							
Noncontact Recreation	X	X	X							
Public Water Supply	S	S	S							
<b>Fish Consumption</b>										
Human Health	NA	NA	NA							
Advisories/Closures	NA	NA	NA							
<b>Aquatic Life</b>										
Dissolved Oxygen (Grab)	S	NA	S							
Dissolved Oxygen (24-Hour)	NA	NA	NA							
Metals in Water	NA	NA	NA							
Organics in Water	NA	NA	NA							
Water Toxicity Tests	NA	NA	NA							
Sediment Toxicity Tests	NA	NA	NA							
Macrobenthos	NA	NA	NA							
Fish	NA	NA	NA							
<b>GENERAL USE SUPPORT</b>										
Water Temperature	S	NA	S							
pH	S	NA	S							
Chloride	S	S	S							
Sulfate	S	S	S							
Total Dissolved Solids	N	S	S							

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

**Colorado River Basin Graphical Summary (Continued)**

Basin Map	Water Bodies									
	Segment 1432 Upper Pecan Bayou	Segment 1433 O.H. Ivie Reservoir	Segment 1434 Colorado River Above La Grange							
<b>WATER QUALITY CONCERNS</b>										
Contact Recreation	X	NA	X							
Noncontact Recreation	X	X	X							
Fish Tissue	NA	NA	NA							
Sediment	NA	NA	NA							
Narrative	NC	NC	NC							
<b>Nutrient Enrichment</b>										
Ammonia Nitrogen	NC	NA	NC							
Nitrite + Nitrate Nitrogen	NA	NA	NC							
Orthophosphorus	NA	NA	NC							
Total Phosphorus	NC	NA	NC							
Chlorophyll <i>a</i>	NC	NA	NA							
<b>Public Water Supply</b>										
Finished Water Chloride	NC	NC	NC							
Finished Water Sulfate	NC	NC	NC							
Finished Water TDS	NC	NC	NC							
Surface Water Chloride	NC	NC	NC							
Surface Water Sulfate	NC	NC	NC							
Surface Water TDS	NC	NC	NC							
<b>Aquatic Life</b>										
Dissolved Oxygen	X	NA	X							
Metals in Water	NA	NA	NA							
Organics in Water	NA	NA	NA							
Water Toxicity Tests	NA	NA	NA							
Sediment Toxicity Tests	NA	NA	NA							

# Colorado River Basin

## Segment 1401 - Colorado River Tidal

**Water body description:** From the confluence with the Gulf of Mexico in Matagorda County to a point 2.1 km (1.3 miles) downstream of the Missouri-Pacific Railroad in Matagorda County

**Water body classification:** Classified

**Water body type:** Tidal Stream

**Water body length / area:** 27.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, 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.

### Monitoring sites used in the assessment

Station	Station Description
12281	Colorado River Tidal at Selkirk Island, 2 mi downstream from FM 521, SW of Wadsworth
12283	Colorado River Tidal Bridge on FM 521 north of Matagorda

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	2
Industrial	15

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/10/1995	Town of Wadsworth, Big Boggy Creek-downstream of Gilmore Rd	6,442	Inorganic compound
08/25/1995	Colorado River south of Inter-coastal waterway to Gulf of Mexico	50,000,000	Low Dissolved Oxygen

# Colorado River Basin

## Segment 1402 - Colorado River Below La Grange

**Water body description:** From a point 2.1 km (1.3 miles) downstream of the Missouri-Pacific Railroad in Matagorda County to a point 100 meters (110 yards) downstream of SH 71 at La Grange in Fayette County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 150.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

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

### Monitoring sites used in the assessment

Station	Station Description
12284	Colorado River at SH 35 Bridge at Bay City
12286	Colorado River at SH 183 in Wharton
12287	Colorado River at FM 950 at Garwood
12290	Colorado River at Old Hwy 71 in Columbus
12292	Colorado River at SH 71 at La Grange

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	11
Domestic	19
Industrial	9

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
10/30/1994	Linnville Creek	2	Inorganic compound
09/18/1998	From LaGrange, E on FM 609 to rt on O'Quinn Branch Rd, go 1.5 mi, farm on left	28,760	Pollutant

## Colorado River Basin

### Segment 1402A - Cummins Creek (unclassified water body)

**Water body description:** From the confluence of the Colorado River northeast of Columbus in Colorado County to the upstream perennial portion of the stream east of Giddings in Lee County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 55.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

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

#### Monitoring sites used in the assessment

Station	Station Description
12249	Cummins Creek at FM 109 north of Columbus

## Colorado River Basin

### Segment 1403 - Lake Austin

**Water body description:** From Tom Miller Dam in Travis County to Mansfield Dam in Travis County, up to normal pool elevation of 492.8 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 1,830 Acres

**Use support summary:** The aquatic life use is only partially supported in the upper 3 miles (100 acres) during the summer months due to low dissolved oxygen concentrations in water released upstream from the bottom of Lake Travis. The contact recreation use is not supported due to elevated fecal coliform densities in an area from 2 miles downstream of the Bull Creek confluence to the downstream end of Lake Austin Municipal Park. The public water supply 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 total maximum daily load (TMDL) to evaluate the causes and sources of dissolved oxygen and allocate the allowable loading has been completed and approved by the Commission.

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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12294	Lake Austin near Tom Miller Dam
12295	Lake Austin approx ½ km downstream of confluence with Bull Creek
12297	Lake Austin near Metropolitan Park
12299	Lake Austin near Headwater, 3 miles above Lakeland Park
12300	Lake Austin at headwaters, low water crossing below the dam

### Published studies

Publication	Date	Author
IMS 42 Lake Austin	Feb. 1976	Ottmers, D.
IS 45 Bull Creek	Feb. 1981	Ottmers, D.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	34
Industrial	1

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/20/1994	Lake Austin	44	Low Dissolved Oxygen
10/20/1994	Lake Austin headwaters	100	Low Dissolved Oxygen
08/18/1995	Lake Austin	48	Organic compound

# Colorado River Basin

## Segment 1403A - Bull Creek (unclassified water body)

**Water body description:** From the confluence of Lake Austin in northwest Austin in Travis County to the upstream perennial portion of the stream north of Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 10.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is 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 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12215	Bull Creek at FM 2222 west of Lakewood Drive west of Austin
12216	Bull Creek at Loop 360 1 mile north of FM 2222 intersection west of Austin

# Colorado River Basin

## Segment 1404 - Lake Travis

**Water body description:** From Mansfield Dam in Travis County to Max Starcke Dam on the Colorado River Arm in Burnet County and to a point immediately upstream of the confluence of Fall Creek on the Pedernales River Arm in Travis County, up to normal pool elevation of 681 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 18,929 Acres

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12302	Lake Travis near dam at LCRA Travis County Park
12307	Lake Travis in Big Sandy Creek Cove at the confluence with Lime Creek
12309	Lake Travis at Arkansas Bend
12311	Lake Travis mid-lake adjacent to Lakeway
12313	Lake Travis mid-lake at confluence with Cow Creek arm at Pace Bend
12314	Lake Travis Pedernales River arm, at Old Ferry Rd crossing
12315	Lake Travis mid-lake, 0.8 miles above confluence of Pedernales River arm at post Oak Bend
12316	Lake Travis near Spicewood
12318	Lake Travis at headwaters, below Max Starcke Dam

### Published studies

Publication	Date	Author
IMS 26 Lake Travis	Feb. 1975	Brazier, F.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	86
Industrial	2

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/28/1995	Lake Travis near Mansfield Dam	30	Low Dissolved Oxygen
08/08/1997	Lake Travis, Anderson Bend area	3,485	Inorganic compound
04/04/1998	Hurst Creek at Lakeway Blvd. in Lakeway (Next to "The Oaks" golf course)	1,317	Organic compound

# Colorado River Basin

## Segment 1405 - Marble Falls Lake

**Water body description:** From Max Starcke Dam in Burnet County to Alvin Wirtz Dam in Burnet County, up to normal pool elevation of 738 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 780 Acres

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12319	Lake Marble Falls near Max Starcke Dam
12320	Lake Marble Falls near US 281 Bridge
12323	Lake Marble Falls at the headwaters

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	13
Industrial	4

# Colorado River Basin

## Segment 1406 - Lake Lyndon B. Johnson

**Water body description:** From Alvin Wirtz Dam in Burnet County to Roy Inks Dam on the Colorado River Arm in Burnet/Llano County and to a point immediately upstream of the confluence of Honey Creek on the Llano River Arm in Llano County, up to normal pool elevation of 825 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 6,375 Acres

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12324	Lake Lyndon B. Johnson near Alvin Wirtz Dam
12327	Lake Lyndon B. Johnson at confluence with Sandy Creek
12328	Lake Lyndon B. Johnson near Lake Shore Drive in Sandy Creek arm
12329	Lake Lyndon B. Johnson 1.2 mi downstream from Llano River confluence
12330	Lake Lyndon B. Johnson at confluence with Llano River arm, near Kingsland
12331	Lake Lyndon B. Johnson at FM 2900 Bridge
12333	Lake Lyndon B. Johnson at Kingsland Cove, approximately 0.9 mi upstream of SH 1431
12335	Lake Lyndon B. Johnson at headwaters, 125 yds below inks dam

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	24
Industrial	7

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/24/1996	Lake LBJ	498	Low Dissolved Oxygen

## Colorado River Basin

### Segment 1406A - Sandy Creek (unclassified water body)

**Water body description:** From the confluence of Lake Lyndon B. Johnson southeast of Llano in Llano County to the upstream perennial portion of the stream south of Llano in Llano County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 40.00 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation uses are supported in the lower 25 miles. 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.

#### Monitoring sites used in the assessment

Station	Station Description
12214	Sandy Creek at SH 71 south of Kingsland

# Colorado River Basin

## Segment 1407 - Inks Lake

**Water body description:** From Roy Inks Dam on the Colorado River Arm in Burnet/Llano County to Buchanan Dam in Burnet/Llano County, up to normal pool elevation of 888 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 803 Acres

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12336	Inks Lake near Inks dam
12343	Inks Lake at the headwaters

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	6
Industrial	1

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/06/1997	Lake Buchanan dam tailrace	21	Low Dissolved Oxygen

# Colorado River Basin

## Segment 1408 - Lake Buchanan

**Water body description:** From Buchanan Dam in Burnet/Llano County to a point immediately upstream of the confluence of Yancey Creek, up to normal pool elevation of 1020 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 23,060 Acres

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12344	Lake Buchanan near Buchanan Dam
12345	Lake Buchanan at Red Rock Creek Cove
12347	Lake Buchanan at Rocky Point
12350	Lake Buchanan approximately 3/4 miles south of Garret Island near 30 deg 50 sec
12352	Lake Buchanan near Beaver Creek Cove, adjacent to Paradise Point
12353	Lake Buchanan near Lake Headwater

### Published studies

Publication	Date	Author
IMS 44 Lake Buchanan	Feb. 1976	Brazier, F.

## Wastewater dischargers

Permit type	Number of outfalls
Domestic	1

# Colorado River Basin

## Segment 1409 - Colorado River Above Lake Buchanan

**Water body description:** From a point immediately upstream of the confluence of Yancey Creek in Burnet/San Saba/Lampasas County to the confluence of the San Saba River in San Saba County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 37.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported in the upper 25 miles. 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.

### Monitoring sites used in the assessment

Station	Station Description
12354	Colorado River FM 580 at Bend
12355	Colorado River at US 190 east of San Saba

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	1

# Colorado River Basin

## Segment 1410 - Colorado River Below O. H. Ivie Reservoir

**Water body description:** From the confluence of the San Saba River in San Saba County to S. W. Freese Dam in Coleman/Concho County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 138.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported in the middle 25 miles. 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.

### Monitoring sites used in the assessment

Station	Station Description
12356	Colorado River at SH 16 southwest of Goldthwaite
12358	Colorado River Bridge on US 377 at Winchell

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	9

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/28/1995	Holm Creek north of Rockwood at road crossing	100	Low Dissolved Oxygen

## Colorado River Basin

### Segment 1411 - E. V. Spence Reservoir

**Water body description:** From Robert Lee Dam in Coke County to a point immediately upstream of the confluence of Little Silver Creek in Coke County, up to the normal pool elevation of 1898 feet (impounds Colorado River).

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 14,950 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data. E.V. Spence Reservoir is on the 2000 303(d) list for elevated average concentrations of sulfate and total dissolved solids based on the assessment performed in 1996.

**Water quality concerns summary:** Average chloride, sulfate, and total dissolved solids in finished drinking water are public water supply concerns. Public water supply systems have experienced increased costs for demineralization due to high concentrations of total dissolved solids.

**Additional information:** Total maximum daily loads (TMDLs) to evaluate the causes and sources of sulfate and total dissolved solids and allocate the allowable loading have been completed and approved by the Commission. For more information on specific TMDL projects, visit the TNRCC Web site at [www.tnrcc.state.tx.us/water/quality/tmdl/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

## Colorado River Basin

### Segment 1412 - Colorado River Below Lake J. B. Thomas

**Water body description:** From a point immediately upstream of the confluence of Little Silver Creek in Coke County to Colorado River Dam in Scurry County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 99.00 Miles

**Use support summary:** Available data indicate that all uses are supported in the lower half of the river.

**Water quality concerns summary:** Chlorophyll *a* is a concern in a 25-mile reach downstream of Colorado City.

#### Monitoring sites used in the assessment

Station	Station Description
12362	Colorado River at Pan American Oil Co. Bridge 4.7 miles west of Silver
12363	Colorado River at SH 163 Bridge in Colorado City, Mitchell County, Texas
12364	Colorado River upstream from bridge on US 80 at Colorado City
12365	Colorado River at FM 1808 NW of Colorado City

#### Published studies

Publication	Date	Author
AS 096/SR Monahans Draw	April 1995	Larson, G (Region 7)
IMS 63 Colorado River	March 1977	Meixner, M. (Region 2)
LP 88-03 Monahans Draw	April 1988	James, T. (Region 7)
LP 89-06 Beals Creek	Nov. 1989	James, T. (Region 7)

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	9
Domestic	63
Industrial	21

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
01/08/1996	Beal's Creek	23	Inorganic compound
02/06/1996	Comanche Trails Lake	22	Temperature
02/01/1997	Deep Creek - near FM 2763	12	Low Dissolved Oxygen

## Colorado River Basin

### Segment 1412A - Lake Colorado City (unclassified water body)

**Water body description:** From Lake Colorado City Dam up to normal pool elevation of 2070.0 feet southwest of Colorado City in Mitchell County (impounds Morgans Creek)

**Water body classification:** Unclassified

**Water body type:** Reservoir

**Water body length / area:** 1,612 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Average chloride, sulfate, and total dissolved solids in finished drinking water are public water supply concerns.

## Colorado River Basin

### Segment 1412B - Beals Creek (unclassified water body)

**Water body description:** From the confluence of the Colorado River south of Colorado City in Mitchell County to the upstream perennial portion of the stream east of Big Spring in Howard County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 41.00 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Chlorophyll *a* is a concern.

#### Monitoring sites used in the assessment

Station	Station Description
12156	Beals Creek at SH 163 east of Big Spring
12157	Beals Creek at FM 821

# Colorado River Basin

## Segment 1413 - Lake J. B. Thomas

**Water body description:** From Colorado River Dam in Scurry County up to normal pool elevation of 2258 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 7,808 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	17

# Colorado River Basin

## Segment 1414 - Pedernales River

**Water body description:** From a point immediately upstream of the confluence of Fall Creek in Travis County to FM 385 in Kimble County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 125.00 Miles

**Use support summary:** The contact recreation use is not supported in a 7 mile reach at Stonewall in LBJ National Park (Gellerman Lane) downstream to the Gillespie/Blanco County Line due to elevated fecal coliform densities. The aquatic life, public water supply, 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 1994 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

A project is underway 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12369	Pedernales River at CR 962, at Hammett's Crossing
12375	Pedernales River at FM 1320
12377	Pedernales River at Gochman Lane Crossing east of Fredricksburg off of US 290 E

### Monitoring sites, continued

Station	Station Description
12380	Pedernales River US 290 SE of Fredericksburg
15419	Pedernales River at RR 1623 in Stonewall

### Published studies

Publication	Date	Author
IMS 1 Pedernales River	Feb. 1973	Respass, D.
IS 89-05 Pedernales River	Aug. 1986	Ottmers, D.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	2
Domestic	12

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/30/1995	Town Creek/Pedernales Hills Resort at junction of SH. 281 and Pedernales River	24	Low Dissolved Oxygen

# Colorado River Basin

## Segment 1415 - Llano River

**Water body description:** From a point immediately upstream of the confluence of Honey Creek in Llano County to FM 864 on the North Llano River in Sutton County and to SH 55 on the South Llano River in Edwards County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 231.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply and general uses are supported in the middle 25 miles. 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.

### Monitoring sites used in the assessment

Station	Station Description
12383	Llano River County Road 6.5 miles upstream from Kingsland
12384	Llano River off SH 29 4 mi east of Llano
12385	Llano River 75 meters downstream of Buttery Creek in Llano
12389	Llano River at county road 9.5 mi. northeast of downtown Junction
12391	South Llano River at Hwy 377 crossing northeast of Rockspring in Edwards County
14231	Llano River at Yates crossing on RR 385, 15 mi. east of junction in Kimble County
14233	North Llano River on Kimble CR 274, 11 mi. west of Junction (off US 290)

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	5
Domestic	8
Industrial	4

## Colorado River Basin

### Segment 1415A - Johnson Fork Creek (unclassified water body)

**Water body description:** From the confluence of the Llano River north of Segovia in Kimble County to the upstream perennial portion of the stream west of Kerrville in Kerr County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 22.00 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation 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.

#### Monitoring sites used in the assessment

Station	Station Description
13550	Johnson Fork Creek at FM 2169, 1.8 km north of IH 10 at Segovia , Kimble County downstream of Paks Corp. Discharge at 2nd road crossing

# Colorado River Basin

## Segment 1416 - San Saba River

**Water body description:** From the confluence with the Colorado River in San Saba County to the confluence of the North Valley Prong and the Middle Valley Prong in Schleicher County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 168.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12392	San Saba River at SH 16 North of San Saba
12393	San Saba River at FM 2092, 5 mi. downstream from Menard

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	17
Industrial	3

## Colorado River Basin

### Segment 1416A - Brady Creek (unclassified water body)

**Water body description:** From the confluence of the San Saba River southwest of San Saba in San Saba County to the upstream perennial portion of the stream west of Brady in McCulloch County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 35.00 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation uses are supported in the upper 25 miles. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Total phosphorus and chlorophyll *a* are concerns in the upper 25 miles.

#### Monitoring sites used in the assessment

Station	Station Description
14232	Brady Creek on private road 2.1 mi. downstream of FM 714

# Colorado River Basin

## Segment 1417 - Lower Pecan Bayou

**Water body description:** From the confluence with the Colorado River in Mills County to a point immediately upstream of the confluence of Mackinally Creek in Brown County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 30.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

**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 1986 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is not required for dischargers.

### Monitoring sites used in the assessment

Station	Station Description
12394	Lower Pecan Bayou at FM 573 southwest of Mullin

### Published studies

Publication	Date	Author
IMS 7 Pecan Bayou	Sept. 1973	Kirkpatrick, J.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	17
Domestic	6

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/11/1995	Pecan Bayou - downstream of Brownwood, Texas	50	Low Dissolved Oxygen
09/16/1996	Willis Creek in Brownwood, TX	200	Low Dissolved Oxygen

# Colorado River Basin

## Segment 1418 - Lake Brownwood

**Water body description:** From Lake Brownwood Dam in Brown County to a point 100 meters (110 yards) upstream of FM 2559 in Brown County, up to normal pool elevation of 1424.6 feet (impounds Pecan Bayou)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 7,290 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

### Published studies

Publication	Date	Author
IMS 59 Lake Brownwood	Dec. 1976	Ottmers, D.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	12
Domestic	25

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
05/22/1997	Big Rocky Cove - Dock #4002	20	Physical Damage/Trauma

## Colorado River Basin

### Segment 1418A - Hords Creek (unclassified water body)

**Water body description:** From the confluence of Jim Ned Creek east of Coleman in Coleman County to the upstream perennial portion of the creek west of Coleman in Coleman County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 28.00 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation 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.

#### Monitoring sites used in the assessment

Station	Station Description
12177	Hords Creek at FM 1176 northwest of Coleman
12178	Hords Creek Reservoir mid lake near dam
14468	Hords Creek at Coleman CR 428, 6 mi west of Coleman; 1 mi south of SH 153

# Colorado River Basin

## Segment 1419 - Lake Coleman

**Water body description:** From Coleman Dam in Coleman County up to the normal pool elevation of 1717.5 feet (impounds Jim Ned Creek)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 2,000 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	1

# Colorado River Basin

## Segment 1420 - Pecan Bayou Above Lake Brownwood

**Water body description:** From a point 100 meter (110 yards) upstream of FM 2559 in Brown County to the confluence of the North Prong Pecan Bayou and the South Prong of Pecan Bayou in Callahan County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 51.00 Miles

**Use support summary:** The aquatic life use is partially supported due to depressed dissolved oxygen concentrations in the lower 25 miles. The contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Average total dissolved solids in surface water is a public water supply concern.

**Additional information:** A project is scheduled for dissolved oxygen 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12400	Pecan Bayou at SH 279 south of Cross Cut

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	6

# Colorado River Basin

## Segment 1421 - Concho River

**Water body description:** From a point 2 km (1.2 miles) above the confluence of Fuzzy Creek in Concho County to San Angelo Dam on the North Concho River in Tom Green County and to Nasworthy Dam on the South Concho River in Tom Green County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 63.00 Miles

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern in the lower 50 miles due to groundwater seeps and natural springs in tributaries. Chlorophyll *a* is a concern in the upper 13 miles. Average chloride, sulfate, and total dissolved solids in finished drinking water are concerns. Average chloride and total dissolved solids in surface water are also public water supply concerns.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1993 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

### Monitoring sites used in the assessment

Station	Station Description
12401	Concho River Bridge on US 83 at Paint Rock
12404	Concho River at county road 4.5 mi. NE of Veribest
12412	North Concho River to a point 20m upstream of Irving Street Dam in San Angelo, Tom Green County, Texas

### Published studies

Publication	Date	Author
IMS 2 Concho River	Oct. 1973	Twidwell, S.
IS 56 Concho River	July 1981	Ezell, C.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	25
Domestic	12
Industrial	14

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/02/1994	North Concho River - in San Angelo, between First Street and Irving Street	20,000	Low Dissolved Oxygen
06/05/1995	North Concho River	480	Low Dissolved Oxygen

# Colorado River Basin

## Segment 1422 - Lake Nasworthy

**Water body description:** From Nasworthy Dam in Tom Green County to Twin Buttes Dam in Tom Green County, up to the normal pool elevation of 1872.2 feet (impounds South Concho River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 1,596 Acres

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12418	Lake Nasworthy near dam
12419	Lake Nasworthy in River channel in south Concho arm
12420	Lake Nasworthy North Cove near west Texas utilities warm water discharge channel
12421	Lake Nasworthy Middle Cove near confluence of Middle Concho and Spring Creek channels

### Published studies

Publication	Date	Author
IMS 27 Lake Nasworthy	Jan. 1976	Twidwell, S.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	5
Industrial	5

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
02/09/1996	Lake Nasworthy	30	Temperature

# Colorado River Basin

## Segment 1423 - Twin Buttes Reservoir

**Water body description:** From Twin Buttes Dam in Tom Green County to a point 100 meters (110 yards) upstream of US 67 on the Middle Concho River Arm in Tom Green County and to a point 4.0 km (2.5 miles) downstream of FM 2335 on the South Concho River Arm in Tom Green County, up to the normal pool elevation of 1940.2 feet (impounds Middle Concho River and the South Concho River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 9,080 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

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

### Published studies

Publication	Date	Author
IMS 28 Twin Buttes Reservoir	Jan. 1976	Twidwell, S.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	9

## Colorado River Basin

### Segment 1423A - Spring Creek (unclassified water body)

**Water body description:** From the confluence of Twin Buttes Reservoir south of Tankersley in Tom Green County to the upstream perennial portion of the stream northeast of Ozona in Crockett County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 35.00 Miles

**Use support summary:** Available data indicate that the aquatic life and contact recreation 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.

#### Monitoring sites used in the assessment

Station	Station Description
12162	Spring Creek at unnamed county road 16.7 km northeast of Mertzon

# Colorado River Basin

## Segment 1424 - Middle Concho/South Concho River

**Water body description:** From a point 4.0 km (2.5 miles) downstream of FM 2335 in Tom Green County to the confluence of Bois D' Arc Draw on the South Concho River in Tom Green County, and from a point 100 meters (110 yards) upstream of US 67 in Tom Green County to the confluence of Three Bluff Draw and Indian Creek on the Middle Concho River in Reagan County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 75.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply and general uses are supported in the South Concho River. The fish consumption use was not assessed due to insufficient data. The Middle Concho River was not assessed due to insufficient data.

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

### Monitoring sites used in the assessment

Station	Station Description
12427	South Concho River at US 277 at Christoval

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	1

## Colorado River Basin

### Segment 1424A - West Rocky Creek (unclassified water body)

**Water body description:** From the confluence of Middle Concho River to the upstream perennial portion of the stream north of Mertzon in Irion County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 25.00 Miles

**Use support summary:** Available data indicate that the contact recreation use is supported. Other uses were not assessed due to insufficient data.

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

#### Monitoring sites used in the assessment

Station	Station Description
12165	West Rocky Creek at FM 853 43.4 km (27 mi) northeast of Mertzon

# Colorado River Basin

## Segment 1425 - O. C. Fisher Lake

**Water body description:** From San Angelo Dam in Tom Green County up to normal pool elevation of 1908 feet (impounds North Concho River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 5,440 Acres

**Use support summary:** Available data indicate the public water supply use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Available data indicate that there are no concerns for chloride, sulfate, and total dissolved solids in finished drinking water. Other water quality concerns were not assessed due to insufficient data.

### Published studies

Publication	Date	Author
IMS 25 O. C. Fisher Reservoir	Jan. 1976	Twidwell, S.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	6
Domestic	6
Industrial	1

# Colorado River Basin

## Segment 1426 - Colorado River Below E. V. Spence Reservoir

**Water body description:** From a point 3.7 km (2.3 miles) below the confluence of Mustang Creek in Runnels County to Robert Lee Dam in Coke County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 66.00 Miles

**Use support summary:** Available data indicate that general uses are not supported due to the elevated average total dissolved solids concentration. The aquatic life contact recreation, and public water supply uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Average chloride, sulfate, and total dissolved solids in surface water are public water supply concerns.

**Additional information:** A project is underway for 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12431	Colorado River at US 67 in Ballinger
13651	Colorado River at FM 2111, 0.4 mi. upstream from Rocky Creek, 5.0 mi. SW of Ballinger
15147	Colorado River 100 yds. downstream of City of Robert Lee WWTP, .6 mi. upstream of SH 158

## Wastewater dischargers

Permit type	Number of outfalls
Agriculture	2
Domestic	14
Industrial	4

## Colorado River Basin

### Segment 1426A - Oak Creek Reservoir (unclassified water body)

**Water body description:** From Oak Creek Dam up to normal pool elevation of 2,000.0 feet north of Bronte in Coke County (impounds Oak Creek)

**Water body classification:** Unclassified

**Water body type:** Reservoir

**Water body length / area:** 2,375 Acres

**Use support summary:** Available data indicate that the public water supply use is supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Average sulfate in surface water is a public water supply concern.

# Colorado River Basin

## Segment 1427 - Onion Creek

**Water body description:** From the confluence with the Colorado River in Travis County to the most upstream crossing of FM 165 in Blanco County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 78.00 Miles

**Use support summary:** The aquatic life use is partially supported due to depressed dissolved oxygen concentrations in the lower 10 miles. The contact recreation use is not supported due to elevated fecal coliform densities in a 25-mile reach below Dripping Springs. General uses are not supported due to elevated average sulfate and total dissolved solids concentrations. The fish consumption and public water supply uses are supported.

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

**Additional information:** A project is underway for dissolved oxygen and 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.

A project is scheduled for sulfate 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

## Monitoring sites used in the assessment

Station	Station Description
12434	Onion Creek at McMorris Ranch 1.70 km upstream of Colorado River confluence
12435	Onion Creek at low water crossing upstream from FM 973
12436	Onion Creek at US 183 southeast of Austin
12440	Onion Creek at lower falls in McKinney Falls State Park 125 meters downstream of Williamson Creek confluence
12443	Onion Creek McKinney Falls State Park, 150 ft below the water falls
12445	Onion Creek at Old Lockhart Highway east of IH 35
12446	Onion Creek at IH 35
12447	Onion Creek at Twin Creek Road 200 meters upstream of Bear Creek confluence
12448	Onion Creek 0.7 mile north of Buda next to Mopac railroad tracks
12451	Onion Creek at FM 150, 0.61 km downstream of Flat Creek confluence

## Published studies

Publication	Date	Author
IS 36 Onion Creek	May 1980	Respass, D.

## Wastewater dischargers

Permit type	Number of outfalls
Agriculture	2
Domestic	22

## Historical fish kills

Start date	Location	Fish killed	Suspected cause
05/18/1997	Williamson Cr 1 mi upstream of Onion Cr, McKinney Falls State Park	944	Inorganic compound
07/09/1997	Water main break at Stassney Ln 0.2 mi E of IH 35, Austin	6,598	Inorganic compound

# Colorado River Basin

## Segment 1427A - Slaughter Creek (unclassified water body)

**Water body description:** From the confluence of the Colorado River south of Austin in Travis County to the upstream perennial portion of the stream southwest of Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 16.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. Other uses were not assessed due to insufficient data.

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

**Additional information:** 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12185	Slaughter Creek at Old San Antonio Road south of Austin
12186	Slaughter Creek at FM 1826 south of Austin

## Colorado River Basin

### Segment 1427B - Williamson Creek (unclassified water body)

**Water body description:** From the confluence of Onion Creek in southeast Austin in Travis County to the upstream perennial portion southwest of Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 16.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. Other uses were not assessed due to insufficient data.

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

**Additional information:** 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

#### Monitoring sites used in the assessment

Station	Station Description
15697	Williamson Creek at Brush Country Blvd near Oak Hill

# Colorado River Basin

## Segment 1427C - Bear Creek (unclassified water body)

**Water body description:** From the confluence of Onion Creek in south Austin in Travis County to the upstream perennial portion southwest of Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 15.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. Other uses were not assessed due to insufficient data.

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

**Additional information:** 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12189	Bear Creek at FM 1826 east of Driftwood

# Colorado River Basin

## Segment 1428 - Colorado River Below Town Lake

**Water body description:** From a point 100 meters (110 yards) upstream of FM 969 near Utley in Bastrop County to Longhorn Dam in Travis County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 41.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities in the upper 6 miles. Other uses are supported.

**Water quality concerns summary:** Nitrite + nitrate nitrogen is a concern in the lower 20 miles.

**Additional information:** 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12466	Colorado River at county park in Webberville
12469	Colorado River at FM 973 at Del Valle
12474	Colorado River Bridge on US 183 southeast of Austin
12475	Colorado River just below Longhorn Dam in Austin

### Published studies

Publication	Date	Author
IS 75 Colorado River	Dec. 1984	Werkenthin, F.

## Wastewater dischargers

Permit type	Number of outfalls
Agriculture	2
Domestic	33
Industrial	16

## Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/08/1994	Little Walnut Creek at Brookhollow Circle and 7012 ½ Geneva Drive, Austin, TX	1,000	Low Dissolved Oxygen
10/29/1994	Buescher State Park Lake east of Bastrop, TX	100	Low Dissolved Oxygen
03/29/1995	Walnut Creek tributary in Austin	49	Organic compound
02/11/1996	Gilleland Creek tributary	79	Inorganic compound
06/12/1996	Boggy Creek	5	Organic compound
07/13/1996	Lake Walter E. Long	16	Organic compound
08/02/1996	Tannehill Creek	150	Inorganic compound
01/18/1999	Buttermilk Branch Creek - 100 yds downstream of Cameron Street in East Austin	416	Organic compound

# Colorado River Basin

## Segment 1428A - Boggy Creek (unclassified water body)

**Water body description:** From the confluence of the Colorado River east of Austin in Travis County to the upstream perennial portion of the stream in central Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 7.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is 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 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
13668	Boggy Creek at US 183 in Austin, 1.6 mi south of intersection of Webberville Road and US 183, 0.7 mi from mouth

## Colorado River Basin

### Segment 1428B - Walnut Creek (unclassified water body)

**Water body description:** From the confluence of the Colorado River in east Austin in Travis County to the upstream perennial portion of the stream in north Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 20.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is 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 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

#### Monitoring sites used in the assessment

Station	Station Description
12232	Walnut Creek at Webberville Road (FM 969) in east Austin

## Colorado River Basin

### Segment 1428C - Gilleland Creek (unclassified water body)

**Water body description:** From the confluence of the Colorado River east of Austin in Travis County to the upstream perennial portion of the stream north of Pflugerville in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 24.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is 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 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

#### Monitoring sites used in the assessment

Station	Station Description
12235	Gilleland Creek at FM 973 south of Manor

# Colorado River Basin

## Segment 1429 - Town Lake

**Water body description:** From Longhorn Dam in Travis County to Tom Miller Dam in Travis County, up to the normal pool elevation of 429 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 500 Acres

**Use support summary:** Available data indicate that all uses are supported.

**Water quality concerns summary:** Copper, lead, DDD, DDE, DDT, endosulfan sulfate, heptachlor, heptachlor epoxide, methoxychlor, and gamma-hexachlorocyclo hexane (lindane) in sediment are concerns. Hexachlorobenzene in fish tissue is a concern. Nitrate nitrogen is a concern in the area between Barton Creek and Congress Avenue (150 acres).

**Additional information:** The Texas Department of Health issued in June 1990 a restricted consumption advisory for Town Lake due to elevated chlordane concentrations in fish tissue. This advisory was rescinded by the TDH in October 1999 after sampling revealed lower chlordane concentrations in fish tissue. The fish consumption use is now supported.

### Monitoring sites used in the assessment

Station	Station Description
12476	Town Lake at Longhorn Dam
12480	Town Lake at Waller Creek
12482	Town Lake at Shoal Creek
12486	Town Lake near headwater
14065	Town Lake USGS site BC
14068	Town Lake USGS site CR

### Published studies

Publication	Date	Author
SR 92-03 Town Lake	May 1990	Smith, K. (Region 11)

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	4
Industrial	6

### Historical fish kills

Start date	Location	Fish killed	Suspected cause
06/12/1994	Shoal Creek adjacent to Pease Park near intersection with MLK Drive	30	Low Dissolved Oxygen
08/23/1994	Northwest Park pond in Austin	92	Low Dissolved Oxygen
08/21/1995	Shoal Creek	112	Low Dissolved Oxygen
10/23/1996	Shoal Creek	337	Inorganic compound
09/03/1997	Blunn Creek - at St Edwards Dr., in S Austin	60	Organic compound
07/27/1998	Waller Cr next to MLK and Red River St in Austin.	1,598	Pollutant
08/17/1998	Waller Cr at 2,000 blk of San Jacinto St.	4,054	Inorganic compound

# Colorado River Basin

## Segment 1429A - Shoal Creek (unclassified water body)

**Water body description:** From the confluence of Town Lake in Austin in Travis County to the upstream perennial portion of the Creek in north Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 10.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life use is 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 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
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## Colorado River Basin

### Segment 1429B - Eanes Creek (unclassified water body)

**Water body description:** From the confluence of Town Lake in central Austin in Travis County to the upstream perennial portion of the stream in west Austin in Travis County

**Water body classification:** Unclassified

**Water body type:** Freshwater Stream

**Water body length / area:** 6.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities. The aquatic life and contact recreation uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

# Colorado River Basin

## Segment 1430 - Barton Creek

**Water body description:** From the confluence with Town Lake in Travis County to FM 12 in Hays County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 40.00 Miles

**Use support summary:** The contact recreation use is not supported due to elevated fecal coliform densities in a 19 mile reach from near SH 71 to Loop 360. Other uses are supported.

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

**Additional information:** 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12487	Barton Creek at pedestrian bridge in Zilker Park
12490	Barton Creek at Loop 360 in west Austin
12494	Barton Creek at Barton Creek west subdivision 7.7 km downstream of SH 71
12495	Barton Creek at SH 71 5.3 miles northwest of Oak Hill
13555	Barton Creek at Lost Creek Blvd.
14902	Barton Creek at Barton Creek Blvd., 6 mi. east of Bee Cave
15696	Barton Springs 0.4 mi upstream from Barton Springs Rd in Austin

### Published studies

Publication	Date	Author
IS 86-01 Barton Creek	May 1985	Twidwell, S.
SR 6 Barton Creek/Springs	Sept. 1976	Twidwell, S.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	22

# Colorado River Basin

## Segment 1431 - Mid Pecan Bayou

**Water body description:** From a point immediately upstream of the confluence of Mackinally Creek in Brown County to a point immediately upstream of Willis Creek in Brown County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 13.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Nitrite + nitrate nitrogen, orthophosphorus, and total phosphorus are concerns.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1986 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

### Monitoring sites used in the assessment

Station	Station Description
12504	Pecan Bayou at FM 2126 SE of Brownwood

### Published studies

Publication	Date	Author
IMS 7 Mid Pecan Bayou	Sept. 1973	Kirkpatrick, J.
IS 29 Mid Pecan Bayou	June 1979	Buzan, D.

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	1
Industrial	8

# Colorado River Basin

## Segment 1432 - Upper Pecan Bayou

**Water body description:** From a point immediately upstream of the confluence of Willis Creek in Brown County to Lake Brownwood Dam in Brown County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 15.00 Miles

**Use support summary:** General uses are not supported due to the elevated average total dissolved solids concentration. The aquatic life, contact recreation, and public water supply uses are supported. The fish consumption use was not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

**Additional information:** A wasteload evaluation (WLE) for dissolved oxygen was approved in 1986 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is not required for dischargers.

A project is scheduled for 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/](http://www.tnrcc.state.tx.us/water/quality/tmdl/).

### Monitoring sites used in the assessment

Station	Station Description
12508	Pecan Bayou at US 377 at Brownwood

### Published studies

<b>Publication</b>	<b>Date</b>	<b>Author</b>
IMS 7 Upper Pecan Bayou	Sept. 1973	Kirkpatrick, J.
IS 29 Upper Pecan Bayou	Sept. 1973	Kirkpatrick, J.

# Colorado River Basin

## Segment 1433 - O. H. Ivie Reservoir

**Water body description:** From S. W. Freese Dam in Coleman/Concho County to a point 3.7 km (2.3 miles) below the confluence of Mustang Creek on the Colorado River Arm in Runnels County and to a point 2.0 km (1.2 miles) above the confluence of Fuzzy Creek on the Concho River Arm in Concho County, up to the normal pool elevation of 1551.5 feet (impounds Colorado River)

**Water body classification:** Classified

**Water body type:** Reservoir

**Water body length / area:** 19,150 Acres

**Use support summary:** Available data indicate the public water supply and general uses are supported. Other uses were not assessed due to insufficient data.

**Water quality concerns summary:** Water quality concerns were not assessed due to insufficient data.

### Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1

# Colorado River Basin

## Segment 1434 - Colorado River Above La Grange

**Water body description:** From a point 100 meters (110 yards) downstream of SH 71 at La Grange in Fayette County to a point 100 meters (110 yards) upstream of FM 969 near Utley in Bastrop County

**Water body classification:** Classified

**Water body type:** Freshwater Stream

**Water body length / area:** 74.00 Miles

**Use support summary:** Available data indicate that the aquatic life, contact recreation, public water supply, 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.

### Monitoring sites used in the assessment

Station	Station Description
12293	Colorado River below SH 95, 1 mi, at Olive Rd in Smithville
12457	Colorado River at SH 95/SH Loop 230 at Smithville
12461	Colorado River in Bastrop City Park, 100 meters (300 ft) upstream of SH 71
12462	Colorado River at Loop 150 south of Bastrop

### Wastewater dischargers

Permit type	Number of outfalls
Domestic	18
Industrial	5

