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Chapter 5 – Impacts of Water Management Strategies on Key Parameters of Water Quality and Impacts of Moving Water from Rural and Agricultural Areas

5.1 Scope of Work

This planning effort is part of a consensus-based planning effort to include local concerns in the statewide water supply planning effort. This chapter presents the results of Task 5 of the project scope, which addresses:

- Impacts of Water Management Strategies on Key Parameters of Water Quality
- Evaluation of Third-Party Impacts of Reduced Levels in Water Supply Reservoirs
- Impacts of Moving Water from Rural and Agricultural Areas.

5.2 Impacts of Water Management Strategies on Key Parameters of Water Quality

The potential impacts that water management strategies may have on water quality are discussed in this section, including the identified water quality parameters which are deemed important to the use of the water resources within the region. Under the Clean Water Act, Texas must define designated uses for all major water bodies and, consequently, the water quality standards that are appropriate for that designated water body use. The water quality parameters which are listed for Region H below were selected based on the *TCEQ Water Quality Inventory for Designated Water Body Uses* as well as the water quality parameters identified in the Texas Commission on Environmental Quality (TCEQ) 303d list of impaired water bodies. For reference purposes, *Appendix 5A* contains the TCEQ 303d list of impaired waters within the region and the tabular summaries of use support for the water bodies that are part of Region H.

Key surface water parameters identified within Region H fall into two broad categories:

<u>Nutrients and non-conservative substances:</u>

- Bacteria
- pH
- Dissolved Oxygen
- Total Suspended Solids (TSS)
- Temperature
- Nutrients (Nitrogen, Phosphorus)

<u>Minerals and conservative substances:</u>

- Total Dissolved Solids (TDS)
- Chlorides

- Mercury
- Salinity
- Sediment Contaminants

Non-conservative substances are those parameters that undergo rapid degradation or change as the substance flows downstream, such as nutrients which are consumed by plant life. Nutrient and non-conservative loading to surface water originates from a variety of natural and man-made sources. One significant source of these loads is wastewater treatment facilities. As population increases, the number and size of these wastewater discharges will likely increase as well. Stormwater runoff from certain land use types constitutes another significant source of nutrient loading to the region's watercourses, including agricultural areas, golf courses, residential development, or other landscaped areas where fertilizers are applied. Nutrient loads in Region H are typically within the limits deemed acceptable for conventional water treatment facilities, and are therefore not considered a major concern as related to source of supply.

Conservative substances are those that do not undergo rapid degradation or do not change in water as the substance flows downstream, such as metals. Mineral and other conservative substance loading to surface water generally originates from three sources: (1) non-point source runoff or groundwater seepage from mineralized areas, either natural or man-made (2) wastewater discharges, and (3) sea water migration above estuaries. Region H is fortunate in that the first category is not typical of this area except for the Brazos River which has several natural salt-contributing areas; fortunately, flows in the lower basin generally are sufficient to dilute these sources to easily manageable concentrations. Wastewater discharges, and industrial discharges in particular, have improved over the past 30-years due to the requirements of the Clean Water Act. If local concentrations of conservative contaminants are identified, they are remediated by the appropriate agency. Salinity migration above estuaries is controlled in the Trinity River by the Wallisville Saltwater Barrier, and in the San Jacinto River by the Lake Houston Dam. The 2006 Region H Plan and the 2011 update of the Plan recommends a saltwater barrier be added above the Brazos estuary to protect water quality in that reach of the Brazos River as well. Sediment contaminants can provide particulate matter that can encourage the growth of blue-green algae (cyanobacteria). Sand mining, in particular, has lead to increased nutrient loads in the San Jacinto River which can result in an increase in cyanobacteria levels.

Groundwater in Region H is generally of good quality with no usage limitations. Quality parameters of interest include Total Dissolved Solids (TDS), metals and hardness. Portions of the Carrizo-Wilcox aquifer can contain levels of iron that require sequestering or removal through treatment facilities. The Brazos River Alluvium is directly recharged from the based flow in the Brazos River, and has the potential to reflect any contaminant loading of the Brazos River. Portions of the aquifer currently experience elevated TDS and hardness.

Water quality of the Gulf Coast aquifer is generally good throughout the Region. The Chicot and Evangeline aquifers are capable of yielding moderate to large amounts of fresh water in most of the Region. Fresh water is overlain and underlain by saline water in coastal areas and the coastal deposits are not capable of yielding fresh water. Deeper formations throughout the region are able to supply limited freshwater and slightly saline water in updip areas.

Some localized sites within the Region have the potential to cause contamination of the aquifer under adverse conditions. These sites once generated surface water pollution which, if not properly handled, could cause contamination of local soils or shallow groundwater supplies. Except for the northern areas of the Region, the thickness of the near-surface clay soils located over much of the Region provide an effective barrier to deeper aquifer contamination due to normal infiltration. As a consequence, the primary risk for Gulf Coast aquifer groundwater contamination occurs if there are improperly designed or inadequately sealed wells which are exposed to this surface contamination. Localized shallow alluvial aquifers primarily located along the major streams such as the Brazos River

are at greater risk for contamination from these sites as a result of the more direct travel paths for potential contaminated water to reach these areas, especially if they are being pumped by small household or livestock wells. At this time, there are no recorded incidents of contaminated groundwater in the Region as a result of these sites.

The water quality parameters and water management strategies selected by the RHWPG were evaluated to determine the impacts on water quality as a result of these recommended strategies. This evaluation used the data available to compare current conditions to future conditions with Region H management strategies in place. The recommended and alternative management strategies, as described in *Chapter 4* of this report and used in this evaluation, are listed below.

Recommended Water Management Strategies

Conservation Strategies:
Industrial Conservation
Irrigation Conservation
Municipal Conservation
Contractual Strategies:
Expand/Increase Current Contracts
New Contracts from Existing Supplies
Reallocation of Existing Supplies
TRA to SJRA Contract
TRA to Houston Contract
WUG-Level Contracts[1]
WWP Contracts
Groundwater Strategies:
Expanded Use of Groundwater
Interim Strategies
New Groundwater Wells for Livestock
Groundwater Reduction Plans:
CHCRWA GRP
COH GRP
City of Missouri City GRP
Fort Bend MUD 25 GRP
Fort Bend WCID 2 GRP
NFBWA GRP[2]
NHCRWA GRP[2]
Pecan Grove GRP
Richmond/Rosenberg GRP
River Plantation GRP
SJRA WRAP[3]
Sugar Land GRP
WHCRWA GRP[2]
Infrastructure Strategies:
CHCRWA Transmission Line
CHCRWA Internal Distribution
CLCND West Chambers System
COH Distribution Expansion
COH Treatment Expansion
Harris County MUD 50 WTP
Huntsville WTP
LLWSSSC Surface Water Project

Luce Bayou Transfer
NFBWA Internal Distribution
NFBWA Shared Transmission Line
NHCRWA Internal 2010 Distribution
NHCRWA Internal 2020 Distribution
NHCRWA Internal 2030 Distribution
NHCRWA Transmission 2010
NHCRWA Transmission 2020
NHCRWA Transmission 2030
Pearland SWTP
Sealy GW Treatment Expansion
WHCRWA Internal Distribution
WHCRWA Transmission Line

Reservoir Strategies:

Allens Creek Reservoir
Brazoria County Off-channel Reservoir
Dow Off-Channel Reservoir
Fort Bend County Off-channel Reservoir
GCWA Off-channel Reservoir

Reuse Strategies:

Fulshear Reuse
Houston Indirect Reuse
Montgomery MUD 8/9 Indirect Reuse
NHCRWA Indirect Reuse
Wastewater Reuse for Industry
Wastewater Reclamation for Mun. Irrigation

Permit Strategies:

BRA System Operations Permit
Houston Bayous Permit

Other Strategies:

Brazoria Co. Interruptible Supplies for Irr.
Freeport Desalination Plant
Brazos Saltwater Barrier

Alternative Water Management Strategies

Montgomery MUD 8/9 Brackish Water Desalination
Sabine to Region H Transfer
Little River Off-channel Reservoir

The following paragraphs discuss the impacts of each management strategy on the chosen water quality parameters.

Increased Groundwater Usage, including Expanded Use of Groundwater, Interim Groundwater, and New Groundwater Wells, is not expected to have significant environmental effects. Groundwater within the Region is generally of good quality and available at the point of use. Increases in well pumping will also contribute to return flows in all river basins in Region H. The return flows will increase in proportion to increased groundwater use and significantly contribute to flows into Galveston Bay. Increased and interim groundwater pumping in the region will continue to be monitored by groundwater regulatory agencies since excessive pumping can lead to land subsidence and exacerbate flooding and drainage problems.

Water Conservation, including municipal, industrial, and agricultural conservation, can have both positive and negative impacts on water quality. Water that is being processed through a wastewater treatment plant typically has acquired additional dissolved solids prior to discharge to the waters of the state. Conventional wastewater treatment reduces suspended solids, but does not reduce dissolved solids in the effluent. Water conservation measures will reduce the volume of water passing through the wastewater plants without reducing the mass loading rates (a 1.6 gallon flush carries the same waste mass to the plant that a 6-gallon flush once carried). This may result in slightly increased conservative contaminant loads in the stream. However, it should be noted that during low flow conditions, the wastewater effluent in a stream may represent water that helps to augment and maintain the minimum stream flows. Tail water is the term used to describe that water returned to the stream after application to irrigated cropland. Tail water carries nutrients, sediments, salts, and other pollutants from the farmland. This return flow can have a negative impact on water quality, and by implementing conservation measures which reduce tail water losses, the nutrient and sediment loading can be reduced. Once again, however, this return flow tends to be introduced into the receiving stream during normally dry periods so it may have a net beneficial effect in terms of maintaining minimum stream flow conditions. Furthermore, the loss of the return flows could be offset by a reduction in irrigation diversions resulting in no net affect on the stream flow.

BRA System Operations strategy potentially impacts the water quality in the lower basin depending on the actual diversion quantities and diversion locations. The BRA will develop a management plan for implementing its System Operations Permit. The management plan will address actual operations under the System Operations Permit, including water quality considerations. Decreased instream flows directly influence saltwater intrusion, which may be mitigated by a saltwater barrier. However, in the "Report in Support of System Operation Permit Application" prepared by Freese and Nichols, Inc. for the BRA, it is stated that system operations would not negatively impact instream flows and may increase the frequency of meeting instream criteria in many locations. Because many of the existing impaired segments within the Brazos Basin are located above system reservoirs, it was also found that the hydrology of these segments will not be significantly impacted by the BRA System Operations.

Although the maximum diversions anticipated under the system operations conditions may pose some slight impact on estuary conditions, the frequency of occurrence for these actual diversions is very low. Additionally, since the Brazos River empties directly into the Gulf of Mexico, operational changes will not affect a large bay system but may impact flows into the Brazos River Estuary and the Columbia Bottomlands. Changes to flow patterns will likely be localized and fall within historical parameters. In conclusion, the BRA's analysis recognized the System Operations Permit to be more environmentally sensitive than other potential strategies including new reservoir construction, groundwater resource development, and importing water supplies from outside the basin.

The Brazos Saltwater Barrier would help maintain water quality in the lower Brazos basin during low flow periods. Currently, during low flow periods the Dow Chemical and Brazosport Water Authority lower intakes are compromised due to saltwater intrusion. Increased use of Brazos River supplies will extend this seasonal condition upstream unless a barrier or other control measure is implemented.

Freeport Desalination does not affect other water management strategies and affects only the salinity levels in the area of discharge. The discharge water will blend with and be diluted by other water before flowing into the Brazos River above the Intracoastal Waterway. The diversion of Brazos River water to supplement seawater supplies to the desalination plant would maximize the operational efficiency, but could increase the salinity of the Brazos River Estuary, depending upon the size and season of the diversion.

Allens Creek Reservoir, Brazoria County Off-channel Reservoir, Fort Bend County Off-channel Reservoir, Dow Off-channel Reservoir and GCWA Off-channel Reservoir will modify downstream flow regimes, but potentially have positive impacts on water quality. The impacts will be investigated further once a flow regime is developed for the Brazos River. These off-channel reservoirs will be

operated as “scalping reservoirs”. During times of high flow, water quality in the Brazos River is often poor in terms of suspended solids due to increased sediment loads. At the same time, that water is of better quality in terms of dissolved solids concentrations since the salt being introduced into the Brazos in its upper reaches is diluted. The water that is diverted and stored in reservoirs would allow sediments to settle and accordingly water released from the reservoir would potentially have less sediment concentration. However, reduced sediment loads may have negative impacts on habitats relying on sediments downstream of the proposed reservoirs. Nutrients such as nitrogen and phosphorous are often attached to fine sediment particles that settle in reservoirs reducing nutrient loads to downstream aquatic species. Water that is released from the reservoirs during low flow conditions would have a beneficial effect by diluting the low flow salt concentration in the river. The GCWA Off-channel Reservoir is not expected to create any new water quality issues. The reservoir will allow the GCWA to use supplies from existing water right permits more efficiently.

New Contracts from Existing Supplies, including Expand/Increase Current Contracts, Reallocation of Existing Supplies, CLCND West Chambers System, Brazoria County Interruptible Irrigation, the TRA to Houston Contract, the TRA to SJRA Contract, and Groundwater Reduction Plans (GRPs) are not expected to create any new water quality issues. Fully utilizing existing water supplies may amplify some existing concerns, particularly contaminant concentrations due to reduced opportunities for in-stream dilution. The continued return of flows via wastewater treatment facility discharges will provide some mitigation of that effect. Typical municipal return flows are 60 percent of the total quantity diverted for use.

The Luce Bayou Interbasin Transfer will potentially improve the quality of Lake Houston, due to the blending with water from the Trinity River. However, recent studies performed by the Luce Bayou program have not indicated that this will be the case. Transfers such as this allow an increased opportunity for invasive species migration from the source to receiving waters. Additionally, the transfer will potentially reduce flow in the Trinity River below Dayton, because the Lake Livingston water rights are not fully utilized today. The effects of this reduced flow in the Trinity are mitigated by the existence of the Wallisville Saltwater Barrier at the mouth of the river, which maintains a minimum river level for navigation and prevents the migration of brackish water upstream.

Wastewater Reuse by Houston, NHCRWA and Fort Bend MUD 25, Montgomery County MUDs 8&9, Wastewater Reuse for Industry, and reuse strategies implemented as part of a Groundwater Reduction Plan (GRP) will potentially reduce in-stream flows, thus concentrating any in-stream contaminants. However, the reuse process should remove a portion of the waste load discharged from these facilities, either through the secondary treatment process or simply by the rerouting of effluent. A concern for this strategy would be the disposal method for any liquid wastes from the secondary treatment. In the case of industrial reuse, the reverse-osmosis discharge water would be injected into the bottom of the Houston Ship Channel, into an already brackish zone. The Houston Ship Channel is dredged to a depth of 45-feet (five times the depth of Galveston Bay) with fresh water flowing to the bay at the top and salt water returning on the tides at the bottom. The reverse-osmosis discharge and resultant mixing would be in the salt water layer at the bottom of this channel, increasing the salinity in the brackish zone. Further investigation will be required to determine the full environmental impacts of the reverse osmosis discharge. This reuse is not projected to occur until a time when the overall water use of the region has increased. Wastewater return flows will increase proportionally, so that the reuse of this portion will not constitute a significant reduction below current return flows.

Infrastructure and transmission line expansions including the COH infrastructure expansion, CHCRWA, NFBWA, NHCRWA, and WHCRWA transmission lines, SJRA WRAP and Water Treatment Plant strategies for Pearland, Huntsville, Harris County MUD #50, Sealy and the Lake Livingston Water Supply and Sewer Service Company (LLWSSSC) are not expected to create any new water quality issues. The water management strategies are associated with the transmission of existing supplies to new and increased contractual demands of each wholesale water provider.

The Houston Bayous Permit has the potential to reduce instream flows. The requested diversions from the Houston Bayous Permit account for 20% to 40% of the average flow in Sims, Brays, and Buffalo bayous and 40% to 70% of the average flow in White Oak Bayou. The location of the diversion facilities will also have to be located and any wetland mitigation considered appropriately.

The Sabine to Region H Transfer has the potential to introduce Neches and Sabine River water into the Trinity, San Jacinto, San Jacinto - Brazos, and Brazos basins. This strategy therefore has the potential to result in changes in water chemistry, temperature, nutrients, organic particulates, and sediment in the Neches and Trinity basins. Instream flows in the lower Sabine River will also be reduced by the additional diversion of water from the Sabine River basin. Instream flows in portions of the Neches, Trinity, and San Jacinto Rivers will increase slightly. This strategy is included in the 2011 Plan as an alternative to off-channel reservoirs in Brazoria and Fort Bend Counties. Water transferred from the Sabine to the San Jacinto basin will be used to meet demands primarily in the Brazos and San Jacinto – Brazos basins. This may be accomplished by using the imported water in lieu of Trinity water from Lake Livingston to meet demands in Harris County. Additional infrastructure would be required to convey water from the San Jacinto basin to meet demands in the Brazos and San Jacinto – Brazos basins.

Montgomery County MUD 8/9 Brackish Water Desalination will not affect other water management strategies, but only the salinity in the area of the discharge. The location of the brine disposal will have to be investigated further to determine the impacts of brine concentrate effluent on the receiving surface water or groundwater.

5.3 Evaluation of Third-Party Impacts of Reduced Levels in Water Supply Reservoirs

One of the distinguishing characteristics of Region H is the abundance of recreational opportunities that enrich the quality of life of its residents. (See *Chapter 3* for a discussion of recreational water uses.) Recreation also contributes to attracting tourists and tourist dollars to the region. Some of these recreational activities are associated with water, both freshwater and salt water, and may be sensitive to water supply. The relation to water supply translates through impacts on reservoir levels, instream flows, bay and estuary inflows, water quality, habitat and aesthetics. *Table 5-1* lists recreational activities in Region H and the ways in which those activities are sensitive to water supply.

Although the major reservoirs in Region H were built and are maintained for municipal and industrial water supply, their existence has spurred the development of recreation related economic activity around their perimeters. In addition, this recreation-oriented development expands the tax base of local jurisdictions located near the reservoirs. Other water bodies similarly provide economic opportunities in recreation support activities.

Table 5-1

Recreational Activities Associated with Water in Region H

Activity	Major Sensitivity to Supply
Boating: (Canoe/kayak, sailboats, personal watercraft, power boats)	Reservoir level Instream flow Aesthetics
Swimming	Aesthetics Water quality Reservoir level Instream flow
Fishing	Reservoir level Instream flow Bay & Estuary inflows

	Water quality Habitat
Hunting	Habitat Instream flow
Parks: (Camping, hiking, biking, horseback riding)	Aesthetics Habitat Instream flow
Nature Tourism	Reservoir level Instream flow Bay & Estuary inflows Habitat Aesthetics
Golfing	Course upkeep Aesthetics

These activities impact the economy of the region through many paths, some of which are captured under the heading of "commercial activities" in the municipal water user group (WUG) in the socioeconomic analysis of water shortages (discussed in *Chapter 4*). Examples of these would be the sale of boating equipment, pier use fees collected by a convenience store or hotel receipts. Others impacts are not accounted for among the WUGs.

The determination of a direct relationship between water management strategies and recreational opportunities and indirect economic impacts is not feasible, due to the numerous other factors that affect recreational economics (i.e., weather conditions, national economic conditions, travel restrictions, etc.). However, the collective affects of strategies on anticipated lake levels during historical meteorological conditions were analyzed and some conclusions may be inferred on the impacts to recreation and economics.

For this analysis, the TCEQ Water Availability Model was updated to include the water management strategies recommended by Region C and Region H in their 2006 Regional Water Plans. The tributaries to Galveston Bay were then modeled under four scenarios to compare the results with and without the recommended strategies. The scenarios used were Run 8 “Current Conditions” (current levels of water diversions and return flows), Run 1 (full use of water rights with current percentage of return flows), Run 3 (full use of water rights with no return flows) and a future condition (full use of water rights, new strategies in place, and full return flows except for recommended reuse strategies). The first three models used the year 2000 reservoir sedimentation conditions to represent the 2010 condition, and the fourth used the 2060 condition. The future sedimentation condition benefits downstream projects, because upper basin projects have less capacity to store available flows. In this case, Lakes Houston and Livingston may be considered downstream projects.

The results of these simulations are summarized in *Table 5-2*. Reservoir elevations, capacities and surface areas are shown in *Figure 5-1*, *Figure 5-2* and *Figure 5-3* as a reference. *Appendix 5B* contains figures graphically displaying the model outputs and the percentile comparisons. Percentile values indicate the percentage of time the result value is less than or equal to the subject value. Therefore, the maximum value is the full lake elevation, the median value is the lake level in 50% of the monthly outputs, and the minimum value is the lowest monthly elevation in the simulation. Because the yield of these water supply reservoirs is based upon full use of the stored water during the drought of record, the Run 3 minimum elevation is, by definition, the lake bottom elevation. Note that this value is greater in the 2060 conditions simulation due to the projected accumulation of sediments on the reservoir floor. Each simulation run used the same 57-year inflow data set, which includes the drought of record period.

Table 5-2

Lake Level Percentile Tables

Lake Conroe Water Surface Elevations

	Current Conditions	Yr 2010 Run 1	Yr 2010 Run 3	Yr 2060 w/ Strategies
Maximum	201.0	201.0	201.0	201.0
90th	201.0	201.0	201.0	201.0
75th	201.0	200.5	200.5	200.5
Median	200.5	198.4	198.2	198.5
25th	198.6	193.6	193.0	194.2
10th	195.3	184.2	183.1	185.9
Minimum	187.8	145.0	145.0	152.0

Lake Houston Water Surface Elevations

	Current Conditions	Yr 2010 Run 1	Yr 2010 Run 3	Yr 2060 w/ Strategies
Maximum	44.0	44.0	44.0	44.0
90th	44.0	44.0	44.0	44.0
75th	44.0	44.0	44.0	44.0
Median	44.0	44.0	44.0	44.0
25th	43.3	43.3	42.8	44.0
10th	42.0	42.0	40.4	43.8
Minimum	32.8	32.8	9.0	40.3

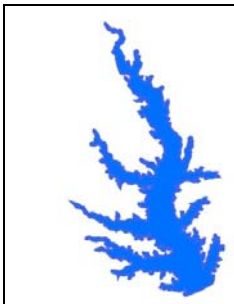
Lake Livingston Water Surface Elevations

	Current Conditions	Yr 2010 Run 1	Yr 2010 Run 3	Yr 2060 w/ Strategies
Maximum	131.0	131.0	131.0	131.0
90th	131.0	131.0	131.0	131.0
75th	131.0	131.0	131.0	131.0
Median	131.0	131.0	129.8	131.0
25th	130.5	130.4	124.3	129.5
10th	129.0	128.0	116.5	127.1
Minimum	125.5	114.0	60.0	120.7

As can be seen from *Table* 5-2, under current conditions Lake Conroe would have a 13.2-ft elevation variation range during the historical period, Lake Houston an 11.2-ft range and Lake Livingston a 5.5-ft range. In all cases, the lakes are essentially full more than 50% of the time. To compare the runs with and without management strategies, it is best to compare Run 1 with the Recommended Strategies simulation, because both models use expected return flows.

Figure 5-1

Lake Conroe Surface Area and Capacity (2060 Conditions)



Surface Elevation	Surface Area	Storage Volume	Percent Fill
Feet (msl)	Acres	Acre-Feet	%
201	19,360	377,560	100%
195.5	15,600	283,170	75%
188.7	12,190	188,780	50%
179.5	8,500	94,390	25%
152			Bottom

Figure 5-2

Lake Houston Surface Area and Capacity (2060 Conditions)

Surface Elevation	Surface Area	Storage Volume	Percent Fill
Feet (msl)	Acres	Acre-Feet	%
44	11,850	106,410	100%
41.5	9,250	79,810	75%
38.0	7,780	53,210	50%
33.4	5,700	26,600	25%
20			Bottom

Figure 5-3

Lake Livingston Surface Area and Capacity (2060 Conditions)

Surface Elevation	Surface Area	Storage Volume	Percent Fill
Feet (msl)	Acres	Acre-Feet	%
131	82,920	1,717,080	100%
125.4	70,600	1,287,810	75%
118.6	56,920	858,540	50%
109.8	39,510	429,270	25%
63			Bottom

For Lake Conroe, full use of water rights reduces the frequency of the lake being full from 50% to 25% of the time in every simulation. The lake level falls below the current conditions minimum elevation between 10 and 25 percent of the time. The transfer of water to Lake Houston via Luce Bayou slightly increases the levels in Lake Conroe, but otherwise the two models are about the same.

For Lake Houston, the full use of water rights does not significantly change the lake level frequencies. This is mainly due to the fact that Lake Houston is senior in priority date to Lake Conroe, and therefore the model always stores available flows in Lake Houston first, and then makes the remainder available to Lake Conroe. In actual operation, a better balance is maintained between the two, but Lake Conroe will always decline faster than Lake Houston because it is supplied from a smaller watershed. Of note in the future condition simulation is that the import of water through Lake Houston via the Luce Bayou transfer increased the frequency of the lake being full from 50% to 90% of the time.

Finally, the Lake Livingston results show how dependent the reservoir is upon return flows from upstream (Run 3 condition). Under the recommended strategies run, the results are very close to the current conditions simulation. This is because increased use in the upper Trinity Basin is off-set by increased import of out-of-basin supplies. Region H indirectly benefits from the growth of the Dallas-Fort Worth Metroplex. In the current round of planning, Region C is increasing the amount of recommended reuse, although it is not expected they will reach the full-reuse condition modeled in Run 3.

The drought of record lasted six years, and subsequent droughts have exceeded two years in duration. Looking at the simulation results in *Figures 5B-1* and *5B-5*, it can be seen that when significant declines in lake levels occur, they will not be instantaneous events, but will be a subset of the overall drought period. Anecdotally, a month with low lake levels will impact a land owner's ability to use a dock. A year with low lake levels may impact his property rental or resale value. Similar inferences may be made as to the impacts on lake area communities and businesses.

Reduced lake levels will also impact water quality. During extreme low flow periods, reduced residence time in the reservoir will lessen the beneficial effects of sediment settling. Because the climate in this area is mild, the seasonal turn-over in lakes occurs less frequently than in colder climates. When reservoirs are drawn down, the denser lower layer of water will be tapped, which may increase the level of treatment required for use.

An option to mitigate these affects is to establish a minimum storage pool for a given reservoir, and prohibit withdrawals below that level. Because that would reduce the available storage pool for these reservoirs, and thus reduce the yield, such an imposition would constitute a taking of property. As a practical matter, the establishment of a minimum storage pool (for habitat, recreation, or other uses) would need to be off-set by the development of a new source of water supply, equal in yield to that lost from the lake. Development of this additional supply would be costly, and was not considered under this plan.

5.4 Impacts of Moving Water from Rural and Agricultural Areas

Currently, the water used in rural (livestock) and agricultural areas represent 13% of the total water used in Region H, a decline from 22% estimated in the year 2000. It is estimated that this will be reduced to 12% of the Region's 3,525,100 acre-feet demand projected in year 2060, mainly due to the growth of municipal and industrial demands. There is a slight projected decrease in irrigation (from 450,175 acre-feet per year in 2010 to 430,930 acre-feet per year in 2060, or a net reduction of 4%). Livestock demand is constant over the planning period. Water management strategies, along with current sources of reliable water supply and interruptible supplies, are available to agricultural users throughout the planning period; therefore, the impacts on agricultural users are not directly related to moving water from these areas.

The potential impacts of moving water from rural and agricultural areas are mainly associated with socio-economic impacts to third parties. The potential impetus for moving water is expected to occur from two sources: 1) the cost of raw water may become too great for the local irrigator to afford, and he may elect to voluntarily leave the industry for economic reasons; or 2) the value of the raw water for municipal or industrial purposes may create a market for the wholesale owner to re-direct the sale of the water making it unavailable to the irrigator. In some cases, it may be feasible for a third party to pay for conservation measures and then utilize the saved water for their own needs (through re-contracting or other agreements) and allow the irrigator to remain in business; however, there are few contractual and institutional measures in effect to allow this trade-off to occur at this time. The intent of this plan is to provide water or the conservation means to meet all projected water demands throughout the planning period.

Appendix 5A

Texas Commission on Environmental Quality 303(d)
List of Impaired Waters

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APPENDIX 5A

Texas Commission on Environmental Quality
303(d)
List of Impaired Waters

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2008 Texas 303(d) List (March 19, 2008)

As required under Sections 303(d) and 304(a) of the federal Clean Water Act, this list identifies the water bodies in or bordering Texas for which effluent limitations are not stringent enough to implement water quality standards, and for which the associated pollutants are suitable for measurement by maximum daily load.

In addition, the TCEQ also develops a schedule identifying Total Maximum Daily Loads (TMDLs) that will be initiated in the next two years for priority impaired waters. Issuance of permits to discharge into 303(d)-listed water bodies is described in the TCEQ regulatory guidance document *Procedures to Implement the Texas Surface Water Quality Standards* (August 2002, RG-194).

Impairments are limited to the geographic area described by the Assessment Unit and identified with a six or seven-digit AU_ID. A TMDL for each impaired parameter will be developed to allocate pollutant loads from contributing sources that affect the parameter of concern in each Assessment Unit. The TMDL will be identified and counted using a four or five-digit SegID. Water Quality permits that are issued before a TMDL is approved will not increase pollutant loading that would contribute to the impairment identified for the Assessment Unit.

Information Provided

SegID and Name: The unique identifier (SegID), segment name, and location of the water body. The SegID may be one of two types of numbers. The first type is a classified segment number (4 digits, *e.g.*, 0218), as defined in Appendix A of the Texas Surface Water Quality Standards (TSWQS). The second type (five digits, e.g., 0218A) is a partially classified water body described in Appendix D of the TSWQS, or an unclassified water body, not defined in the TSWQS, though associated with a classified water body because it is in the same watershed. The segment name and description immediately follow SegID.

Area: Identifies the assessment unit (AU_ID, six or seven digits, *e.g.*, 0101A_01) and describes the location of the specific area in which one or more water quality standards are not met.

Parameter(s): Pollutants or water quality conditions that assessment procedures indicate do not meet assigned water quality standards.

Category: In the 2008 Assessment, one of three subcategories was assigned to each impaired parameter to provide information about water quality status and management activities on that water body. The categories are defined below:

Category 5: The water body does not meet applicable water quality standards or is threatened for one or more designated uses by one or more pollutants.

Category 5a - A TMDL is underway, scheduled, or will be scheduled.

Category 5b - A review of the water quality standards for this water body will be conducted before a TMDL is scheduled.

Category 5c - Additional data and information will be collected before a TMDL is scheduled.

Year First Listed: The assessment year the pollutant or water quality condition in this water body initially did not meet water quality standards as indicated in any of the areas assessed (AU_IDs).

[redacted]

Area		Category	Year First Listed
0615A_01	*Lower 9 miles* bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0701_01	*From saltwater lock to 8 miles upstream* depressed dissolved oxygen	5a	1996
0701_02	*from 8 miles upstream of saltwater lock to the confluence of N and S Forks Taylor Bayou* depressed dissolved oxygen	5a	1996

[redacted]

Area		Category	Year First Listed
0701D_01	*Entire water body* depressed dissolved oxygen	5a	2004

[redacted]

Area		Category	Year First Listed
0702A_02	*Lower portion from SH82 to its confluence with Taylor Bayou*		
	impaired fish community	5c	2002
	toxicity in sediment	5c	1998
0702A_03	*Upper portion from its headwaters at the Port Arthur Canal to SH82*		
	toxicity in water	5c	1998
0702A_04	*Drainage canal leading into Alligator Bayou approx. 0.8 miles north of SH82*		
	toxicity in water	5c	1998

[redacted]

Area		Category	Year First Listed
0704_02	*From confluence with Bayou Din to upper end of segment*		
	depressed dissolved oxygen	5a	1998

[redacted]

Area		Category	Year First Listed
0801C_01	*Upper half of bayou*		
	depressed dissolved oxygen	5b	2006

[redacted]

Area		Category	Year First Listed
0803_01	*Lowermost portion of reservoir, adjacent to dam*		
	pH	5c	2008
	sulfate	5c	2006
0803_02	*Lower portion of reservoir, East Wolf Creek*		
	sulfate	5c	2006
0803_03	*Lower portion of reservoir, East Willow Springs*		
	sulfate	5c	2006
0803_04	*Middle portion of reservoir, East Pointblank*		
	sulfate	5c	2006
0803_05	*Middle portion of reservoir, downstream of Kickapoo Creek*		
	sulfate	5c	2006
0803_06	*Middle portion of reservoir, centering on US 190*		
	pH	5c	2008
	sulfate	5c	2006
0803_07	*Upper portion of reservoir, west of Carlisle*		
	sulfate	5c	2006
0803_08	*Cove off upper portion of reservoir, East Trinity*		
	sulfate	5c	2006
0803_09	*West Carolina Creek cove, off upper portion of reservoir*		
	sulfate	5c	2006
0803_10	*Upper portion of reservoir, centering on SH 19*		
	sulfate	5c	2006
0803_11	*Riverine portion of reservoir, centering on SH 21*		
	sulfate	5c	2006
0803_12	*Remainder of reservoir*		
	sulfate	5c	2006

[redacted]

Area		Category	Year First Listed
0804G_01	*Entire Segment*		
	depressed dissolved oxygen	5c	2006
	impaired macrobenthic community	5c	2006

[redacted]

Area		Category	Year First Listed
0805_01	*25 mile reach near FM 85*		
	PCBs in edible tissue	5a	2002
0805_02	*25 mile reach near SH 34*		
	PCBs in edible tissue	5a	2002
0805_03	*11 mile reach near S. Loop 12*		
	bacteria	5a	1996
	PCBs in edible tissue	5a	2002
0805_04	*Upper 8 miles*		
	bacteria	5a	1996
	PCBs in edible tissue	5a	2002
0805_05	*Remainder of segment*		
	PCBs in edible tissue	5a	2002
0805_06	*From 15.57 mi. upstream of SH 34 to 4.71 mi. downstream of S Loop 12*		
	PCBs in edible tissue	5a	2002

[redacted]

Area		Category	Year First Listed
0806_01	*Lower 22 miles of the segment*		
	PCBs in edible tissue	5a	1996

[redacted]

Area		Category	Year First Listed
0806D_01	*Marine Creek from the confluence with W. Fork Trinity River 2 miles upstream to Tenmile Bridge Rd. in Ft. Worth*		
	bacteria	5a	2006

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[redacted]

Area		Category	Year First Listed
0806E_01	*Five mile stretch of Sycamore Creek running upstream from confluence with the W. Fork of Trinity River to confluence with Echo Lake Tributary in Fort Worth*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0810_01	*Lower 25 miles of segment*		
	bacteria	5a	1998

[redacted]

Area		Category	Year First Listed
0810A_01	*Fifteen mile stretch of Big Sandy Creek running from confluence with Waggoner Creek to FM 1810 West of Alvord, Wise Co.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0810B_01	*Eighteen mile stretch of Garrett Creek running upstream from confluence with Salt Creek to Wise County Road approximately 14 miles upstream of SH114, Wise Co.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0810C_01	*Eight mile stretch of Martin Branch running upstream from confluence with Center Creek to FM 730 south of Decatur, Wise County.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0810D_01	*Eleven mile stretch of Salt Creek running upstream from confluence with Garrett Creek, Wise County.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0812_01	*Lower 25 miles of segment*		
	chloride	5b	1998
	depressed dissolved oxygen	5b	1998
	total dissolved solids	5b	1998
0812_02	*Upper 60 miles of segment*		
	total dissolved solids	5b	1998
	chloride	5b	1998

[redacted]

Area		Category	Year First Listed
0818_01	*1674*		
	pH	5c	2002
0818_02	*Caney Creek cove*		
	pH	5c	2002
0818_03	*Clear Creek cove*		
	pH	5c	2002
0818_04	*Lower portion of reservoir east of Key Ranch Estates*		
	pH	5c	2002
0818_05	*Cove off lower portion of reservoir adjacent to Clearview Estates*		
	pH	5c	2002
0818_06	*Middle portion of reservoir downstream of Twin Creeks cove*		
	pH	5c	2002
0818_07	*Twin Creeks cove*		
	pH	5c	2002
0818_08	*Prairie Creek cove*		
	pH	5c	2002
0818_09	*Upper portion of reservoir adjacent to Lacy Fork cove*		
	pH	5c	2002
0818_11	*Upper portion of reservoir east of Tolosa*		
	pH	5c	2002
0818_12	*Uppermost portion of reservoir downstream of Kings Creek*		
	pH	5c	2002

[redacted]

Area		Category	Year First Listed
0819_01	*Entire segment*		
	sulfate	5b	2008
	total dissolved solids	5b	2008
	chloride	5b	2008

[redacted]

Area		Category	Year First Listed
0820C_01	*Entire creek* bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
0822_02	*4.5 miles upstream to 7.5 miles downstream DWU intake* bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0822A_02	*A 3. 5 mile stretch of Cottonwood Branch running upstream from approximately 0.5 miles downstream of N. Story Rd. to Valley View Rd, Dallas, Co.* bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0822B_01	*A 5.5 mile stretch of Grapevine Creek running upstream from Coppell Rd. in Coppell, Dallas Co., to approximately 1. 5 miles upstream of SH 21, Tarrant County.* bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0829_01	*Lower mile of segment* PCBs in edible tissue	5a	1996

[redacted]

Area		Category	Year First Listed
0831_04	*2 mi upstream of South Fork Trinity River confluence to Squaw Ck. Confluence* depressed dissolved oxygen	5b	1996
0831_05	*From the confluence of Squaw Ck. to Lake Weatherford Dam* depressed dissolved oxygen	5b	1996

[redacted]

Area		Category	Year First Listed
0833_02	*Upper 11 miles of segment* depressed dissolved oxygen	5b	1998
0833_03	*From the confluence of McKnight Branch to the confluence of Cottonwood Ck.* depressed dissolved oxygen	5b	1998
0833_04	*From the confluence with Dobbs Branch to confluence with McKnight Branch* depressed dissolved oxygen	5b	1998

[redacted]

Area		Category	Year First Listed
0838C_01	*Entire segment.*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0841_01	*Lower 14 miles of segment*		
	bacteria	5a	1996
	PCBs in edible tissue	5a	1996
0841_02	*Upper 13 miles of segment*		
	PCBs in edible tissue	5a	1996

[redacted]

Area		Category	Year First Listed
0841B_01	*Entire segment.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0841C_01	*Entire segment.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0841D_01	*Entire segment.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0841E_01	*Entire segment.*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0841F_01	*Entire segment.*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0841G_01	*Entire segment.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0841H_01	*Entire segment.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0841J_01	*Entire segment.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0841K_01	*Entire segment.*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0841M_01	*Entire segment.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
0841N_01	*Entire segment*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0841S_01	*A 5 acre area in NW corner of Vilbig Lakes, near confluence with unnamed creek, approx. 100 m south of intersection of Rusdell Rd./Marvel Dr. in Irving, Dallas, Co.*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0841U_01	*A 4 mile stretch of West Irving Branch running upstream from approx. 0.4 mi. downstream of Oakdale Rd. to just south of Sowers Road in Irving, Dallas Co.*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0901_01	*Entire segment*		
	dioxin in edible tissue	5a	2002
	PCBs in edible tissue	5a	2008
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
0902_01	*Entire segment*		
	impaired macrobenthic community	5c	2006

[redacted]

Area		Category	Year First Listed
1001_01	*From Lake Houston Dam to US Hwy 90*		
	dioxin in edible tissue	5a	2000
1001_02	*From US Hwy 90 to IH 10*		
	dioxin in edible tissue	5a	2000
	PCBs in edible tissue	5a	2002

[redacted]

Area		Category	Year First Listed
1002_06	*Confluence with Spring Creek to West Lake Houston Pkwy*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1003_01	*Confluence with Caney Creek upstream to US 59*		
	bacteria	5a	2006
1003_02	*US Hwy 59 to 25 miles upstream (just upstream of Clear Creek confluence)*		
	bacteria	5a	2006
1003_03	*25 miles upstream of US 59 to US 190 (upper segment boundary)*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1004_02	*IH 45 to the Spring Creek confluence*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1004D_01	*Confluence with West Fork San Jacinto River upstream to confluence of the East and West Forks of Crystal Creek*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1004E_02	*From Airport Rd to confluence with West Fork San Jacinto River*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1005_01	*Downstream I-10 to Lynchburg Ferry Road*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1005_02	*Lynchburg Ferry Road to Goose Island*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
	bacteria	5c	2006
1005_03	*Goose Island to SH 146*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1005_04	*SH 146 to Morgans Point*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002

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[redacted]

Area		Category	Year First Listed
1006_01	*Houston Ship Channel Tidal-Greens Bayou confluence to Patrick Bayou confluence*		
	dioxin in edible tissue	5a	1996
	bacteria	5c	2006
	PCBs in edible tissue	5a	2002
1006_02	*Houston Ship Channel Tidal- Patrick Bayou confluence to lower segment boundary*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1006_03	*Greens Bayou Tidal*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1006_04	*Patrick Bayou Tidal*		
	dioxin in edible tissue	5a	1996
	mercury in water	5a	1998
	PCBs in edible tissue	5a	2002
	toxicity in sediment	5c	2000
1006_05	*Goodyear Creek Tidal*		
	bacteria	5c	2006
	depressed dissolved oxygen	5c	2006
	PCBs in edible tissue	5a	2002
	dioxin in edible tissue	5a	1996

[redacted]

Area		Category	Year First Listed
1006D_01	*From the confluence with Greens Bayou to US 59*		
	bacteria	5a	2002
1006D_02	*From Hirsch Road to Homestead Road*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1006F_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1006H_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1006I_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1006J_01	*Entire water body*		
	bacteria	5a	2002

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[redacted]

Area		Category	Year First Listed
1007_01	*Houston Ship Channel/Buffalo Bayou Tidal*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
	bacteria	5c	2006
1007_02	*Sims Bayou Tidal (upstream of SH 35 to Houston Ship Channel confluence)*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1007_03	*Hunting Bayou Tidal (I-10 to confluence with Houston Ship Channel)*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1007_04	*Brays Bayou Tidal (downstream of I 45 to confluence with the Houston Ship Channel)*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1007_05	*Vince Bayou Tidal (SH 225 to confluence with the Houston Ship Channel*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
	bacteria	5c	2006
	toxicity in sediment	5c	2000
1007_06	*Berry Bayou Tidal (2.4 km upstream of the Sims Bayou confluence)*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
1007_07	*Buffalo Bayou (US 59 to upstream of 69th Street WWTP)*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002
	bacteria	5c	2006
1007_08	*Little Vince Bayou Tidal (From confluence with Vince Bayou to SH 225)*		
	dioxin in edible tissue	5a	1996
	PCBs in edible tissue	5a	2002

[redacted]

Area		Category	Year First Listed
1007A_01	*From confluence with an unnamed flood control ditch near Corsair St to the confluence with Sims Bayou*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1007B_01	*From 11.5km upstream of confluence with Brays Bayou Tidal to SH 6*		
	bacteria	5a	2002
1007B_02	*SH 6 to Clodine Road*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007C_01	*From Harris County line to confluence with Brays Bayou*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007D_01	*From 0.4 miles north of Beltway 8 to Hiram Clark*		
	bacteria	5a	2002
1007D_02	*From Hirman Clark to 11 miles upstream of the confluence with the Houston Ship Channel*		
	bacteria	5a	2002
1007D_03	*From 11 miles upstream of the Houston Ship Channel confluence to SH 35*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007E_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007F_01	*1.5 miles upstream from confluence with Sims Bayou to SH 3*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007G_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007H_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007I_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007K_01	*From just downstream of South Lockwood Drive to the confluence with Brays Bayou*		
	depressed dissolved oxygen	5c	2002
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007L_01	*Entire perennial portion of water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007M_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007N_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1007O_01	*Entire water body*		
	bacteria	5a	2002
	depressed dissolved oxygen	5c	2002

[redacted]

Area		Category	Year First Listed
1007R_01	*From Bain Street to Sayers Street (South Fork)*		
	bacteria	5a	2002
	depressed dissolved oxygen	5c	2002
1007R_02	*From just east of Elysian Street to Falls Street (North Fork)*		
	bacteria	5a	2002
1007R_03	*From Falls Street to Loop 610 East*		
	bacteria	5a	2002
1007R_04	*From Loop 610 East to IH 10*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1008_02	*Field Store Road to SH 249*		
	bacteria	5a	1996
	depressed dissolved oxygen	5b	1996
1008_03	*SH 249 to IH 45*		
	bacteria	5a	1996
1008_04	*IH 45 to confluence with Lake Houston*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1008B_01	*From Old Conroe Road to the confluence with Bear Branch*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1008H_01	*Entire water body*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1009_01	*Upper portion of segment to downstream of US 290*		
	bacteria	5a	1996
1009_02	*US 290 to SH 249*		
	bacteria	5a	1996
1009_03	*SH 249 to IH 45*		
	bacteria	5a	1996
1009_04	*IH 45 to confluence with Spring Creek*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1009C_01	*From an unnamed lake 0.3 miles southeast of Telge Road to the confluence with Cypress Creek*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1009D_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1009E_01	*Entire water body*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1010_02	*FM 1097 to SH 105*		
	bacteria	5a	2006
1010_04	*FM 2090 to lower segment boundary*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1011_02	*US Hwy 59 to confluence with Caney Creek*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1013_01	*Entire segment*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1013A_01	*From the confluence of White Oak Bayou upstream to the RR Tracks north of IH 610*		
	bacteria	5a	2002
	depressed dissolved oxygen	5c	2002

[redacted]

Area		Category	Year First Listed
1013C_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1014_01	*Entire segment*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1014A_01	*Confluence with South Mayde Creek to a point upstream of an unnamed tributary north of Langenbaugh Road*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1014B_01	*From SH6 to the confluence with Willow Fork Buffalo Bayou*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1014E_01	*Confluence with Bear Creek upstream to the confluence with Dinner Creek*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1014H_01	*From the confluence with Buffalo Bayou upstream to the confluence with an unnamed tributary 0.62 km east of Barker-Cypress Road*		
	bacteria	5a	2002
1014H_02	*From the confluence with an unnamed tributary 0.62 km east of Barker-Cypress Road upstream to an unnamed tributary 1.05 km south of Clay Road*		
	bacteria	5a	2002

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[redacted]

Area		Category	Year First Listed
1014K_01	*From the confluence with South Mayde Creek upstream to a point south of Clay Road*		
	bacteria	5a	2002
1014K_02	*From south of Clay Road upstream to north of Tanner Road*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1014L_01	*Confluence with Buffalo Bayou upstream to the channelization south of Franz Rd.*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1014M_01	*Entire water body*		
	depressed dissolved oxygen	5c	2002
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1014N_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1014O_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1016_01	*Upper segment boundary (FM 1960) to IH 45*		
	bacteria	5a	1996
1016_02	*IH 45 to US 59*		
	bacteria	5a	1996
1016_03	*US 59 to lower segment boundary at the Halls Bayou confluence*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1016A_02	*From the confluence with Williams Gully upstream to 1.5 km north of Atascosita Road*		
	bacteria	5a	2002
1016A_03	*From the confluence with Greens Bayou upstream to the confluence with Williams Gully*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1016B_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1016C_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1016D_01	*Entire water body*		
	bacteria	5a	2002
	depressed dissolved oxygen	5c	2002

[redacted]

Area		Category	Year First Listed
1017_01	*Huffsmith Rd to the confluence with Vogel Creek*		
	bacteria	5a	1996
1017_02	*Vogel Creek to the Cole Creek confluence*		
	bacteria	5a	1996
1017_03	*Cole Creek confluence to the Brickhouse Gully confluence*		
	bacteria	5a	1996
1017_04	*Brickhouse Gully confluence to lower segment boundary*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1017A_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1017B_02	*From Flintlock Street to confluence with White Oak Bayou*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1017D_01	*Entire water body*		
	bacteria	5a	2002
	depressed dissolved oxygen	5c	2002

[redacted]

Area		Category	Year First Listed
1017E_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1101_01	*Upper segment boundary to Chigger Creek confluence*		
	bacteria	5a	1996
1101_02	*Chigger Creek confluence to IH 45*		
	bacteria	5a	1996
1101_03	*IH45 to Cow Bayou confluence*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1101B_01	*From the headwaters to FM 528*		
	bacteria	5a	2002
1101B_02	*FM 528 to the confluence with Clear Creek*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1101D_01	*From headwater to Abilene St.*		
	bacteria	5c	2006
1101D_02	*From Abilene St. to confluence with Clear Lake*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1102_01	*Upper segment boundary (Rouen Road) to SH 288*		
	bacteria	5a	1996
1102_02	*SH 288 to Hickory Slough confluence*		
	bacteria	5a	1996
	impaired fish community	5c	2006
1102_03	*Hickory Slough confluence to Turkey Creek confluence*		
	bacteria	5a	1996
1102_04	*Turkey Creek confluence to Mary's Creek confluence*		
	bacteria	5a	1996
1102_05	*Mary's Creek confluence to lower segment boundary*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1102A_01	*Sunset Drive to SH35*		
	bacteria	5a	2002
1102A_02	*Confluence with Clear Creek to Sunset Drive*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1102B_01	*Entire segment*		
	bacteria	5a	2002

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[redacted]

Area		Category	Year First Listed
1102C_01	*From confluence with Clear Creek to (approx. 0.3 miles) upstream of CR 93*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1102D_01	*Confluence with Clear Creek to IH 45*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1102E_01	*Beamer Road to confluence with Clear Creek*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1103_01	*From 2.5 miles downstream of FM 517 to the Bordens Gully confluence*		
	bacteria	5a	1996
	depressed dissolved oxygen	5a	1996
1103_02	*From the Bordens Gully confluence to the Benson Bayou confluence*		
	bacteria	5a	1996
	depressed dissolved oxygen	5a	1996
1103_03	*From the Benson Bayou confluence to the confluence with Gum Bayou*		
	bacteria	5a	1996
	depressed dissolved oxygen	5a	1996

[redacted]

Area		Category	Year First Listed
1103A_01	*From confluence with Dickinson Bayou Tidal to 0.37 miles upstream of FM 646*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1103B_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1103C_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1104_01	*From lower segment boundary upstream to FM 517*		
	bacteria	5a	1996
	depressed dissolved oxygen	5c	2006
1104_02	*From FM 517 upstream to FM 528*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1110_02	*4 mi upstream South Texas Water Co. Canal to just above Ramsey Prison Unit*		
	bacteria	5c	2006
1110_03	*From just upstream of Ramsey Prison Unit (Cow Cr) to CR 290/S Walker St.*		
	depressed dissolved oxygen	5b	1996
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1113_01	*Upper segment boundary to confluence with Big Island Slough*		
	depressed dissolved oxygen	5b	1996
1113_02	*Big Island Slough confluence to Horsepen Bayou confluence*		
	depressed dissolved oxygen	5b	1996
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1113A_01	*0.5 miles downstream of Genoa Red Bluff to Preston Road*		
	bacteria	5a	1998
	depressed dissolved oxygen	5c	1998

[redacted]

Area		Category	Year First Listed
1113B_01	*Confluence with Armand Bayou to SH 3*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1202H_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1202J_01	*Upstream portion of water body to Whaley-Longpoint Road*		
	impaired fish community	5b	2006
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1205_01	*Upstream portion of lake*		
	chloride	5c	2008
1205_02	*Portion of lake adjacent to the City of Oak Trail Shores*		
	chloride	5c	2008
1205_03	*Portion of lake adjacent to the City of Granbury*		
	chloride	5c	2008
1205_04	*Portion of lake downstream of Granbury*		
	chloride	5c	2008
1205_05	*Downstream portion of lake*		
	chloride	5c	2008

[redacted]

Area		Category	Year First Listed
1206_01	*Downstream portion of segment*		
	chloride	5b	2006
	impaired macrobenthic community	5c	2008
1206_02	*Middle Portion of Segment*		
	chloride	5b	2006
	impaired macrobenthic community	5c	2008
1206_03	*Upstream portion of segment*		
	chloride	5b	2006

[redacted]

Area		Category	Year First Listed
1208_01	*From confluence with Possum Kingdom upstream to confluence with spring Branch*		
	bacteria	5c	2008
1208_02	*Portion of segment from confluence with Spring Branch upstream to confluence with Fish Creek*		
	bacteria	5c	2008
1208_04	*From confluence with Boggy Creek upstream to confluence with Millers Creek*		
	bacteria	5c	2008
1208_05	*From confluence with Millers Creek upstream to confluence with Lake Creek*		
	bacteria	5c	2008

[redacted]

Area		Category	Year First Listed
1209_02	*From confluence with Rocky Creek to confluence with Sandy Branch*		
	bacteria	5a	2002
1209_03	*From confluence with Sandy Branch to confluence with Shepherd Branch*		
	bacteria	5a	2002
1209_05	*From confluence with Camp Creek to 25 miles upstream*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1209A_01	*Entire reservoir*		
	toxicity in sediment	5c	1999

[redacted]

Area		Category	Year First Listed
1209B_01	*Entire reservoir*		
	toxicity in sediment	5c	2000

[redacted]

Area		Category	Year First Listed
1209C_01	*Entire water body*		
	bacteria	5a	1999

[redacted]

Area		Category	Year First Listed
1209D_01	*entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1209E_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1209G_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1209H_01	*From the lower end of the creek to FM 2096*		
	bacteria	5c	2006
1209H_02	*From FM 2096 to Twin Oak Reservoir dam*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1209I_01	*From lower end to confluence with Dry Creek*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1209J_01	*Entire water body*		
	bacteria	5c	2002

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[redacted]

Area		Category	Year First Listed
1209K_02	*From the confluence with Willow Creek upstream to the end of the water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1209L_01	*entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1210A_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1211A_02	*Upper 25 miles*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1212_01	*Eastern end of reservoir near dam*		
	depressed dissolved oxygen	5c	2008
	pH	5c	2002
1212_03	*Middle of reservoir near Birch Creek State Park*		
	pH	5c	2002

[redacted]

Area		Category	Year First Listed
1212B_01	*Lower 25 miles*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1213_01	*From the confluence with Brazos River upstream to confluence with City of Cameron WWTP receiving water*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1214_01	*From confluence with Little River upstream to confl. with Alligator Creek*		
	chloride	5c	2008
	sulfate	5c	2006
	bacteria	5a	2006
1214_02	*From confluence with Alligator Creek upstream to Lake Granger*		
	sulfate	5c	2006
	chloride	5c	2008

[redacted]

Area		Category	Year First Listed
1217_04	*From the FM 1690 crossing to the CR 117 crossing*		
	bacteria	5c	2002
1217_05	*From CR 117 crossing to the upper end of the segment*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1217D_01	*entire water body*		
	depressed dissolved oxygen	5b	2006

[redacted]

Area		Category	Year First Listed
1218_01	*Entire segment*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1220A_03	*Upstream portion of water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1221_01	*Directly upstream of Lake Belton*		
	bacteria	5a	1996
1221_04	*From the confluence with Plum Creek, upstream to the confluence with Pecan Creek*		
	bacteria	5a	1996
1221_05	*From confluence with Pecan Creek, upstream to confluence with South Leon Creek*		
	bacteria	5a	1996
1221_06	*From confluence with South Leon Creek upstream to confluence with Walnut Creek*		
	bacteria	5a	1996
1221_07	*From the confluence with Walnut Creek upstream to Lake Proctor*		
	bacteria	5a	1996

[redacted]

Area		Category	Year First Listed
1221A_01	*Downstream portion, from confluence with Leon River upstream to conf. with unnamed tributary, approx. 1.0 mile N. of Comanche County Line*		
	depressed dissolved oxygen	5c	2006
	bacteria	5c	2004
1221A_02	*From confluence with unnamed tributary, upstream to end of water body, approx. 1.0 mile north west of Dublin*		
	bacteria	5c	2004

[redacted]

Area		Category	Year First Listed
1221B_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1221C_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1221D_01	*From confluence with Leon River, upstream to confluence with Armstrong Creek*		
	bacteria	5c	2006
1221D_02	*From confluence with Armstrong Creek upstream to headwaters of water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1221F_01	*entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1222A_01	*Entire creek*		
	bacteria	5c	1999

[redacted]

Area		Category	Year First Listed
1222B_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1222C_01	*Downstream portion of segment*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1222E_01	*entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1223_01	*Entire Segment*		
	bacteria	5c	2006
	depressed dissolved oxygen	5c	2008

[redacted]

Area		Category	Year First Listed
1223A_01	*entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1226B_01	*Entire water body*		
	depressed dissolved oxygen	5c	2006

[redacted]

Area		Category	Year First Listed
1226E_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1226F_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1226K_01	*entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1227_01	*Downstream portion, including Mustang Creek confluence*		
	chloride	5b	2006
	sulfate	5b	2002
	total dissolved solids	5b	2006
1227_02	*Upstream portion, to Lake Pat Cleburne*		
	chloride	5b	2006
	sulfate	5b	2002
	total dissolved solids	5b	2006

[redacted]

Area		Category	Year First Listed
1229_01	*Lower 7 miles*		
	sulfate	5c	2008
	total dissolved solids	5c	2008
1229_02	*Middle 25 miles*		
	chloride	5c	2008
	sulfate	5c	2008
	total dissolved solids	5c	2008
1229_03	*Upper 25 miles*		
	chloride	5c	2008
	sulfate	5c	2008
	total dissolved solids	5c	2008

[redacted]

Area		Category	Year First Listed
1232B_01	*From the confluence with Clear Fork Brazos, upstream to city of Abilene WWTP receiving water*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1238_01	*25 miles near Hwy 83*		
	chloride	5b	2002
1238_02	*25 miles near Hwy 380 at Swenson*		
	chloride	5b	2002
1238_03	*Remainder of segment*		
	chloride	5b	2002

[redacted]

Area		Category	Year First Listed
1240_01	*Entire segment*		
	total dissolved solids	5c	2006
	chloride	5c	2002

[redacted]

Area		Category	Year First Listed
1241_01	*25 miles near Hwy 83*		
	chloride	5b	2006
1241_02	*Remainder of segment*		
	chloride	5b	2006

2008 Texas 303(d) List (March 19, 2008)

[redacted]

Area		Category	Year First Listed
1241A_02	*Upstream portion, from confluence with Yellow House Draw to Lake Buffalo Springs*		
	bacteria	5c	2004

[redacted]

Area		Category	Year First Listed
1242B_01	*Downstream portion, downstream of Sanderson Farms receiving water*		
	bacteria	5c	2006
1242B_02	*Upstream portion, upstream of Sanderson Farms receiving water*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1242C_01	*Downstream of Bryan WWTP*		
	bacteria	5c	2006
1242C_02	*Portion upstream of city of Bryan WWTP*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1242D_01	*Portion downstream of the confluence with Still Creek*		
	bacteria	5c	2002
1242D_02	*Portion of segment upstream of confluence with Still Creek*		
	bacteria	5c	2002
	depressed dissolved oxygen	5c	2004

[redacted]

Area		Category	Year First Listed
1242I_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1242J_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1242K_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1242L_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1242M_01	*Entire water body*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1242N_01	*Downstream portion of water body, from confluence with Brazos River upstream to confl. with Little Tehuacana Creek*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1242O_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1242P_01	*Downstream portion of water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1244_03	*From confluence with Cottonwood Branch upstream to City of Round Rock WWTP outfall*		
	bacteria	5a	2006
1244_04	*From immediately upstream of City of Round Rock WWTP outfall upstream to end of segment*		
	bacteria	5a	2006

[redacted]

Area		Category	Year First Listed
1245_01	*From the confluence with the Brazos River upstream to Dam #3*		
	depressed dissolved oxygen	5a	1996
1245_02	*From Dam #3 upstream to Harmon St. crossing in Sugar Land*		
	depressed dissolved oxygen	5a	1996
1245_03	*From Harmon St. crossing in Sugar Land upstream to the end of the segment*		
	depressed dissolved oxygen	5a	1996

[redacted]

Area		Category	Year First Listed
1245C_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1245D_01	*Entire water body*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1246E_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1247A_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1248C_01	*Entire water body*		
	bacteria	5c	2004

[redacted]

Area		Category	Year First Listed
1255_01	*Lower portion of segment downstream of Stephenville*		
	bacteria	5c	1996
1255_02	*Upper portion of segment, upstream of Stephenville*		
	bacteria	5c	1996
	depressed dissolved oxygen	5c	2008

[redacted]

Area		Category	Year First Listed
1255A_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1255B_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1255C_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1255E_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1255F_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1255G_01	*Entire water body*		
	bacteria	5c	2002

[redacted]

Area		Category	Year First Listed
1301_01	*Entire Segment*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1302_01	*Lower 25 miles of segment*		
	bacteria	5a	2002
1302_02	*25 miles from just upstream of FM 442 to downstream of US 90A*		
	bacteria	5a	2002
1302_03	*25 miles from downstream of US 90A to upstream of FM 3013*		
	bacteria	5a	2002

[redacted]

Area		Category	Year First Listed
1302A_01	*The entire 15 miles of the segment*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1302B_01	*Lower 15 miles of segment*		
	depressed dissolved oxygen	5c	2006
1302B_02	*Upper 25 miles of segment*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1304_01	*Lower 25 miles of segment*		
	bacteria	5c	2006

[redacted]

Area		Category	Year First Listed
1305_02	*25 miles surrounding SH 35*		
	bacteria	5a	2002
	depressed dissolved oxygen	5b	1999
1305_03	*Upper 55 miles of segment*		
	depressed dissolved oxygen	5b	1999

[redacted]

Area		Category	Year First Listed
1401_01	*Entire segment*		
	bacteria	5a	2006

Neches River Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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Neches River Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0601 Neches River Tidal	0601A Star Lake Canal	0602 Neches River Below B. A. Steinhagen Lake	0602A Booger Branch	0603 B. A. Steinhagen Lake	0603A Sandy Creek	0603B Wolf Creek	0604 Neches River Below Lake Palestine	0604A Cedar Creek	0604B Hurricane Creek	0604C Jack Creek	0604D Piney Creek
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	NA	NA	**NS**	FS	FS	FS	**NS**	**NS**	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	FS	X	FS	X	X	FS	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	**NS**	NA	FS	FS	FS	FS	FS	FS	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	FS	NA	FS	NA	NA	NA	NA	**NS**	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	FS	NA	FS	NA	**PS**	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	FS	NA	NA	NA	NA	FS	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	X	FS	X	NA	X	X	FS	X	X	X	X
pH	FS	X	FS	X	NA	X	X	FS	X	X	X	X
Chloride	X	X	FS	X	NA	X	X	FS	X	X	X	X
Sulfate	X	X	FS	X	NA	X	X	FS	X	X	X	X
Total Dissolved Solids	X	X	FS	X	NA	X	X	FS	X	X	X	X

Neches River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0604H One Eye Creek	0604 Biloxi Creek	0604N Buck Creek	0604T Lake Ratcliff	0605 Lake Palestine	0605A Kickapoo Creek	0606 Neches River Above Lake Palestine	0606A Prairie Creek	0607 Pine Island Bayou	0607A Boggy Creek	0607B Little Pine Island Bayou	0607C Willow Creek
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	FS	FS	NA	FS	**NS**	FS	**NS**	FS	NA	FS	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	FS	X	FS	X	FS	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	NA	FS	FS	FS	FS	**PS**	FS	**PS**	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	**NS**	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	**PS**	FS	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	X	X	FS	X	FS	X	FS	X	X	X
pH	X	X	X	X	FS	X	**PS**	X	FS	X	X	X
Chloride	X	X	X	X	FS	X	FS	X	FS	X	X	X
Sulfate	X	X	X	X	FS	X	FS	X	FS	X	X	X
Total Dissolved Solids	X	X	X	X	FS	X	FS	X	FS	X	X	X

Neches River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0608 Village Creek	0608A Beech Creek	0608B Big Sandy Creek	0608C Cypress Creek	0608D Hickory Creek	0608E Mill Creek	0608F Turkey Creek	0608G Lake Kimball	0609 Angelina River Below Sam Rayburn Reservoir	0610 Sam Rayburn Reservoir	0610A Ayish Bayou	0611 Angelina River Above Sam Rayburn Reservoir
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	**NS**	FS	FS	NA	**NS**	NA	FS	FS	FS	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	X	X	X	X	X	X	X	FS	FS	X	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	NA	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	FS	FS	NA	FS
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	FS
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	**PS**	NA	**PS**	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	FS	FS	NA	FS
GENERAL USE SUPPORT												
Water Temperature	FS	X	X	X	X	X	X	X	FS	FS	X	FS
pH	**PS**	X	X	X	X	X	X	X	FS	FS	X	FS
Chloride	FS	X	X	X	X	X	X	X	FS	FS	X	FS
Sulfate	FS	X	X	X	X	X	X	X	FS	FS	X	FS
Total Dissolved Solids	FS	X	X	X	X	X	X	X	FS	FS	X	FS

Neches River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0611A East Fork Angelina River	0611B La Nana Bayou	0611C Mud Creek	0611D West Mud Creek	0611H Ragsdale Creek	0611Q Lake Nacogdoches	0612 Attoyac Bayou	0612B Waffelow Creek	0612C Pinkston Reservoir	0613 Lake Tyler/Lake Tyler East	0614 Lake Jacksonville	0615 Angelina River/Sam Rayburn Reservoir
DESIGNATED USE SUPPORT												
Contact Recreation Use	**NS**	**NS**	**NS**	FS	NA	NA	FS	NA	NA	FS	NA	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	FS	FS	X	FS	FS	FS	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	NA	FS	NA	NA	FS	NA	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA	FS
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	FS
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NS**
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**PS**
Human Health Criteria	NA	NA	NA	NA	NA	NA	FS	NA	NA	FS	NA	FS
GENERAL USE SUPPORT												
Water Temperature	X	X	X	X	X	X	FS	X	X	FS	NA	FS
pH	X	X	X	X	X	X	FS	X	X	FS	NA	FS
Chloride	X	X	X	X	X	X	FS	X	X	FS	FS	FS
Sulfate	X	X	X	X	X	X	FS	X	X	FS	FS	FS
Total Dissolved Solids	X	X	X	X	X	X	FS	X	X	FS	FS	FS

Neches River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0615A Papermill Creek
DESIGNATED USE SUPPORT	
Contact Recreation Use	FS
Noncontact Recreation Use	X
Public Water Supply Use	X
Aquatic Life Use	
Dissolved Oxygen grab min	FS
Dissolved Oxygen 24-hour avg	NA
Dissolved Oxygen 24-hour min	NA
Metals in water	FS
Organics in water	NA
Water Toxicity Tests	NA
Sediment Toxicity Tests	NA
Habitat	NA
Macrobenthos Community	NA
Fish Community	NA
Fish Consumption Use	
Advisories and Closures	NA
Human Health Criteria	FS
GENERAL USE SUPPORT	
Water Temperature	X
pH	X
Chloride	X
Sulfate	X
Total Dissolved Solids	X

Neches River Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0601 Neches River Tidal	0601A Star Lake Canal	0602 Neches River Below B. A. Steinhagen Lake	0602A Booger Branch	0603 B. A. Steinhagen Lake	0603A Sandy Creek	0603B Wolf Creek	0604 Neches River Below Lake Palestine	0604A Cedar Creek	0604B Hurricane Creek	0604C Jack Creek	0604D Piney Creek
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NA	NA	NC	NC	NC	**C**	**C**	**C**	NC
Nitrite + Nitrate Nitrogen	NC	**C**	NC	NA	NA	NC	NC	NC	**C**	NC	**C**	NC
Orthophosphorus	NC	**C**	NC	NA	NA	NA	NA	NC	NA	NA	NA	NA
Total Phosphorus	NC	**C**	NC	NA	NA	NA	NA	NC	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NC	NC	NC	NA	NA	NA	NA	NC	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	NC	X	NC	X	X	NC	X	X	X	X
Finished Water: Sulfate	X	X	NC	X	NC	X	X	NC	X	X	X	X
Finished Water: TDS	X	X	NC	X	NC	X	X	NC	X	X	X	X
Surface Water: Chloride	X	X	NC	X	NA	X	X	NC	X	X	X	X
Surface Water: Sulfate	X	X	NC	X	NA	X	X	NC	X	X	X	X
Surface Water: TDS	X	X	NC	X	NA	X	X	NC	X	X	X	X

Neches River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0604H One Eye Creek	0604 Biloxi Creek	0604N Buck Creek	0604T Lake Ratcliff	0605 Lake Palestine	0605A Kickapoo Creek	0606 Neches River Above Lake Palestine	0606A Prairie Creek	0607 Pine Island Bayou	0607A Boggy Creek	0607B Little Pine Island Bayou	0607C Willow Creek
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NC	NC	NA	**C**	**C**	NC	NA	NC	NA	NC	NC
Nitrite + Nitrate Nitrogen	NA	NC	NC	NA	**C**	NC	**C**	NA	NC	NA	NC	NC
Orthophosphorus	NA	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA	NA
Total Phosphorus	NA	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NA	NC	NA	NC	NA	NC	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	X	NC	X	NC	X	NC	X	X	X
Finished Water: Sulfate	X	X	X	X	NC	X	NC	X	NC	X	X	X
Finished Water: TDS	X	X	X	X	NC	X	NC	X	NC	X	X	X
Surface Water: Chloride	X	X	X	X	NC	X	NC	X	NC	X	X	X
Surface Water: Sulfate	X	X	X	X	NC	X	NC	X	NC	X	X	X
Surface Water: TDS	X	X	X	X	NC	X	NC	X	NC	X	X	X

Neches River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0608 Village Creek	0608A Beech Creek	0608B Big Sandy Creek	0608C Cypress Creek	0608D Hickory Creek	0608E Mill Creek	0608F Turkey Creek	0608G Lake Kimball	0609 Angelina River Below Sam Rayburn Reservoir	0610 Sam Rayburn Reservoir	0610A Ayish Bayou	0611 Angelina River Above Sam Rayburn Reservoir
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	**C**	NA	NC	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NC	NC	NA	NC	NA	NC	NC	NA	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NA	NC	NA	NC	NC	NA	NC
Orthophosphorus	NC	NA	NA	NA	NA	NA	NA	NA	NC	NC	NA	NC
Total Phosphorus	NC	NA	NA	NA	NA	NA	NA	NA	NC	**C**	NA	NC
Algal Growth												
Chlorophyll *a*	NC	NA	NA	NA	NA	NA	NA	NA	NA	NC	NA	NC
Public Water Supply												
Finished Water: Chloride	NC	X	X	X	X	X	X	X	NC	NC	X	NC
Finished Water: Sulfate	NC	X	X	X	X	X	X	X	NC	NC	X	NC
Finished Water: TDS	NC	X	X	X	X	X	X	X	NC	NC	X	NC
Surface Water: Chloride	NC	X	X	X	X	X	X	X	NC	NC	X	NC
Surface Water: Sulfate	NC	X	X	X	X	X	X	X	NC	NC	X	NC
Surface Water: TDS	NC	X	X	X	X	X	X	X	NC	NC	X	NC

Neches River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0611A East Fork Angelina River	0611B La Nana Bayou	0611C Mud Creek	0611D West Mud Creek	0611H Ragsdale Creek	0611Q Lake Nacogdoches	0612 Attoyac Bayou	0612B Waffelow Creek	0612C Pinkston Reservoir	0613 Lake Tyler/Lake Tyler East	0614 Lake Jacksonville	0615 Angelina River/Sam Rayburn Reservoir
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NC	NA	NA	NC	NC	NA	NC
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	**C**
Nutrient Enrichment												
Ammonia Nitrogen	NC	**C**	NC	NC	NA	NA	NC	NA	NA	NC	NA	**C**
Nitrite + Nitrate Nitrogen	NC	NC	NC	**C**	NA	NA	NC	NA	NA	NC	NA	**C**
Orthophosphorus	NA	NA	NA	NA	NA	NA	NC	NA	NA	NC	NA	**C**
Total Phosphorus	NA	NA	NA	NA	NA	NA	NA	NA	NA	NC	NA	**C**
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NC	NA	NC
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	NC	NC	X	NC	NC	NC	NC
Finished Water: Sulfate	X	X	X	X	X	NC	NC	X	NC	NC	NC	NC
Finished Water: TDS	X	X	X	X	X	NC	NC	X	NC	NC	NC	NC
Surface Water: Chloride	X	X	X	X	X	NA	NC	X	NA	NC	NC	NC
Surface Water: Sulfate	X	X	X	X	X	NA	NC	X	NA	NC	NC	NC
Surface Water: TDS	X	X	X	X	X	NA	NC	X	NA	NC	NC	NC

Neches River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0615A Papermill Creek
WATER QUALITY CONCERNS	
Sediment Contaminants	NA
Fish Tissue Contaminants	NA
Narrative	**C**
Nutrient Enrichment	
Ammonia Nitrogen	**C**
Nitrite + Nitrate Nitrogen	NC
Orthophosphorus	**C**
Total Phosphorus	**C**
Algal Growth	
Chlorophyll *a*	NC
Public Water Supply	
Finished Water: Chloride	X
Finished Water: Sulfate	X
Finished Water: TDS	X
Surface Water: Chloride	X
Surface Water: Sulfate	X
Surface Water: TDS	X

Neches - Trinity Coastal Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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Neches-Trinity Coastal Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Taylor Bayou Above Tidal 0701	Shallow Prong Lake 0701D	Intracoastal Waterway Tidal 0702	Alligator Bayou 0702A	Sabine-Neches Canal Tidal 0703	Hillebrandt Bayou 0704	Willow Marsh Bayou 0704A	Kidd Gully 0704B	Pevitot Gully 0704C
DESIGNATED USE SUPPORT									
Contact Recreation Use	FS	NA	FS	FS	FS	FS	NA	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	X	X	X
Aquatic Life Use									
Dissolved Oxygen grab min	FS	NA	FS	FS	FS	FS	FS	FS	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	FS	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	FS	NA	NA	**NS**	NA	NA	NA	NA	NA
Fish Consumption Use									
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT									
Water Temperature	FS	X	FS	X	FS	FS	X	X	X
pH	FS	X	FS	X	FS	FS	X	X	X
Chloride	FS	X	X	X	X	FS	X	X	X
Sulfate	FS	X	X	X	X	FS	X	X	X
Total Dissolved Solids	FS	X	X	X	X	FS	X	X	X

Neches-Trinity Coastal Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Taylor Bayou Above Tidal 0701	Shallow Prong Lake 0701D	Intracoastal Waterway Tidal 0702	Alligator Bayou 0702A	Sabine-Neches Canal Tidal 0703	Hillebrandt Bayou 0704	Willow Marsh Bayou 0704A	Kidd Gully 0704B	Pevitot Gully 0704C
WATER QUALITY CONCERNS									
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NC	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	**C**	NC	NC	NC	NC	NC
Nutrient Enrichment									
Ammonia Nitrogen	NC	NA	NC	NC	NC	**C**	NA	NA	NA
Nitrite + Nitrate Nitrogen	NC	NA	NC	NC	NC	NC	NA	NA	NA
Orthophosphorus	NC	NA	NC	NC	NC	NC	NA	NA	NA
Total Phosphorus	NC	NA	NC	NC	NC	NC	NA	NA	NA
Algal Growth									
Chlorophyll *a*	**C**	NA	NC	**C**	NC	**C**	NA	NA	NA
Public Water Supply									
Finished Water: Chloride	X	X	X	X	X	X	X	X	X
Finished Water: Sulfate	X	X	X	X	X	X	X	X	X
Finished Water: TDS	X	X	X	X	X	X	X	X	X
Surface Water: Chloride	X	X	X	X	X	X	X	X	X
Surface Water: Sulfate	X	X	X	X	X	X	X	X	X
Surface Water: TDS	X	X	X	X	X	X	X	X	X

Trinity River Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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Trinity River Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0801 Trinity River Tidal	0802 Trinity River Below Lake Livingston	0803 Lake Livingston	0803A Harmon Creek	0804 Trinity River Above Lake Livingston	0804F Tehuacana Creek	0805 Upper Trinity River	0806 West Fork Trinity River Below Lake Worth	0806A Fosdic Lake	0806B Echo Lake	0807 Lake Worth	0808 West Fork Trinity River Below Eagle Mtn. Res.
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	FS	FS	NA	FS	NA	NA	NA	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	FS	FS	X	X	X	X	FS	X	X	FS	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	NA	NA	NA	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	FS	FS	FS	FS	FS	FS	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	FS	NA	NA	NA	**NS**	**NS**	**NS**	**NS**	**NS**	NA
Human Health Criteria	NA	FS	FS	NA	FS	FS	FS	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	FS	X	FS	X	FS	FS	X	X	NA	NA
pH	FS	FS	**PS**	X	FS	X	FS	FS	X	X	NA	NA
Chloride	X	FS	FS	X	FS	X	FS	NA	X	X	NA	NA
Sulfate	X	FS	FS	X	FS	X	FS	NA	X	X	NA	NA
Total Dissolved Solids	X	FS	FS	X	FS	X	FS	FS	X	X	NA	NA

Trinity River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0809 Eagle Mountain Reservoir	0810 West Fork Trinity River Below Bridgeport Res.	0811 Bridgeport Reservoir	0812 West Fork Trinity River Above Bridgeport Res.	0813 Houston County Lake	0814 Chambers Creek Above Richland-Chambers Res.	0815 Bardwell Reservoir	0815A Waxahachie Creek	0816 Lake Waxahachie	0817 Navarro Mills Lake	0818 Cedar Creek Reservoir	0819 East Fork Trinity River
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	**NS**	FS	NA	NA	NA	NA	NA	NA	NA	FS	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	FS	FS	FS	FS	FS	FS	X	FS	FS	FS	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	NA	NA	FS	FS	NA	NA	NA	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	FS	NA	FS	NA	NA	FS	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	FS	NA	FS	NA	NA	FS	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	FS	NA	NA	FS	FS	X	NA	NA	FS	FS
pH	FS	FS	FS	NA	NA	FS	FS	X	NA	NA	**NS**	FS
Chloride	FS	FS	FS	NA	NA	FS	NA	X	NA	NA	FS	FS
Sulfate	FS	FS	FS	NA	NA	FS	NA	X	NA	NA	FS	FS
Total Dissolved Solids	FS	FS	FS	NA	NA	FS	FS	X	NA	NA	FS	FS

Trinity River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0820 Lake Ray Hubbard	0820C Muddy Creek	0821 Lake Lavon	0821A Pilot Grove Creek	0821B Sister Grove Creek	0822 Elm Fork Trinity River Below Lewisville Lake	0823 Lewisville Lake	0823A Little Elm Creek	0823B Stewart Creek	0823C Clear Creek	0824 Elm Fork Trinity River Above Ray Roberts Lake	0825 Denton Creek
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	**NS**	NA	NA	NA	FS	NA	**NS**	NA	FS	**NS**	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	X	FS	X	X	FS	FS	X	X	X	X	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	NA	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	FS	FS	FS	NA	NA	NA	NA	FS	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	FS	FS	NA	FS	FS	FS	FS	NA	NA	NA	FS	NA
GENERAL USE SUPPORT												
Water Temperature	FS	X	FS	X	X	FS	FS	X	X	X	FS	FS
pH	FS	X	FS	X	X	FS	FS	X	X	X	FS	FS
Chloride	FS	X	FS	X	X	FS	FS	X	X	X	FS	FS
Sulfate	NA	X	FS	X	X	FS	FS	X	X	X	FS	FS
Total Dissolved Solids	FS	X	NA	X	X	FS	FS	X	X	X	FS	FS

Trinity River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0826 Grapevine Lake	0826A Denton Creek	0827 White Rock Lake	0828 Lake Arlington	0828A Village Creek	0829 Clear Fork Trinity River Below Benbrook Lake	0829A Lake Como	0830 Benbrook Lake	0831 Clear Fork Trinity River Below Lake Weatherford	0832 Lake Weatherford	0833 Clear Frk. Trinity R. Above L. Weatherford	0834 Lake Amon G. Carter
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	FS	NA	NA	NA	FS	NA	FS	**NS**	NA	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	X	X	FS	X	FS	X	FS	FS	FS	FS	FS
Aquatic Life Use												
Dissolved Oxygen grab min	NA	FS	NA	FS	FS	FS	NA	FS	FS	NA	**PS**	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	FS	FS	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	**NS**	**NS**	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	FS	FS	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	NA	X	NA	NA	X	FS	X	FS	FS	NA	FS	NA
pH	NA	X	NA	FS	X	FS	X	FS	FS	NA	FS	NA
Chloride	NA	X	NA	FS	X	FS	X	FS	FS	NA	NA	NA
Sulfate	NA	X	NA	FS	X	FS	X	FS	FS	NA	NA	NA
Total Dissolved Solids	FS	X	NA	FS	X	FS	X	FS	FS	NA	FS	NA

Trinity River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	0835 Richland Creek Below Richland-Chambers Res.	0836 Richland-Chambers Reservoir	0837 Richland Creek Above Richland-Chambers Res.	0838 Joe Pool Lake	0839 Elm Fork Trinity River Below Ray Roberts Lake	0840 Ray Roberts Lake	0840A Unnamed tributary of Jordan Creek	0841 Lower West Fork Trinity River	0841A Mountain Creek Lake
DESIGNATED USE SUPPORT									
Contact Recreation Use	NA	FS	FS	NA	NA	FS	NA	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	FS	FS	FS	FS	FS	X	X	FS
Aquatic Life Use									
Dissolved Oxygen grab min	NA	FS	FS	FS	NA	FS	FS	FS	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	FS	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use									
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	**NS**	**NS**
Human Health Criteria	NA	FS	NA	FS	NA	FS	NA	NA	NA
GENERAL USE SUPPORT									
Water Temperature	NA	FS	FS	FS	NA	FS	X	FS	X
pH	NA	**PS**	FS	FS	NA	FS	X	FS	X
Chloride	NA	FS	FS	NA	NA	FS	X	FS	X
Sulfate	NA	FS	FS	FS	NA	FS	X	FS	X
Total Dissolved Solids	NA	FS	FS	FS	NA	FS	X	FS	X

Trinity River Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0801 Trinity River Tidal	0802 Trinity River Below Lake Livingston	0803 Lake Livingston	0803A Harmon Creek	0804 Trinity River Above Lake Livingston	0804F Tehuacana Creek	0805 Upper Trinity River	0806 West Fork Trinity River Below Lake Worth	0806A Fosdic Lake	0806B Echo Lake	0807 Lake Worth	0808 West Fork Trinity River Below Eagle Mtn. Res.
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NC	NA	NA	NA	NA	NC	NC	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NC	NC	NC	**C**	NC	NA	NA	NA	NA
Nitrite + Nitrate Nitrogen	NC	NC	**C**	NC	**C**	NC	**C**	NC	NA	NA	NA	NA
Orthophosphorus	NC	NC	**C**	**C**	**C**	NC	**C**	NC	NA	NA	NA	NA
Total Phosphorus	NC	NC	**C**	**C**	**C**	NA	**C**	NC	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NC	NC	**C**	NA	**C**	NA	NC	**C**	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	NC	NC	X	X	X	X	NC	X	X	NC	NC
Finished Water: Sulfate	X	NC	NC	X	X	X	X	NC	X	X	NC	NC
Finished Water: TDS	X	NC	NC	X	X	X	X	NC	X	X	NC	NC
Surface Water: Chloride	X	NC	NC	X	X	X	X	NA	X	X	NA	NA
Surface Water: Sulfate	X	NC	NC	X	X	X	X	NA	X	X	NA	NA
Surface Water: TDS	X	NC	NC	X	X	X	X	NC	X	X	NA	NA

Trinity River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Eagle Mountain Reservoir 0809	West Fork Trinity R. Below Bridgeport Res. 0810	Bridgeport Reservoir 0811	West Fork Trinity River Above Bridgeport Res. 0812	Houston County Lake 0813	Chambers Creek Above Richland-Chambers Res. 0814	Bardwell Reservoir 0815	Waxahachie Creek 0815A	Lake Waxahachie 0816	Navarro Mills Lake 0817	Cedar Creek Reservoir 0818	East Fork Trinity River 0819
WATER QUALITY CONCERNS												
Sediment Contaminants	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NC	NA	NA	NA	NC	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	**C**	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NA	NA	NC	NC	NA	NA	NA	**C**	**C**
Nitrite + Nitrate Nitrogen	NC	NC	NC	NA	NA	NC	**C**	NA	NA	NA	NC	**C**
Orthophosphorus	NC	NC	NC	NA	NA	NC	NC	NA	NA	NA	**C**	**C**
Total Phosphorus	**C**	NC	NC	NA	NA	NA	NA	NA	NA	NA	**C**	NA
Algal Growth												
Chlorophyll *a*	**C**	NC	NC	NA	NA	NA	NA	NA	NA	NA	**C**	NA
Public Water Supply												
Finished Water: Chloride	NC	NC	NC	NC	NC	NC	NC	X	NC	NC	NC	X
Finished Water: Sulfate	NC	NC	NC	NC	NC	NC	NC	X	NC	NC	NC	X
Finished Water: TDS	NC	NC	NC	NC	NC	NC	NC	X	NC	NC	NC	X
Surface Water: Chloride	NC	NC	NC	NA	NA	NC	NA	X	NA	NA	NC	X
Surface Water: Sulfate	NC	NC	NC	NA	NA	NC	NA	X	NA	NA	NC	X
Surface Water: TDS	NC	NC	NC	NA	NA	NC	NC	X	NA	NA	NC	X

Trinity River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Lake Ray Hubbard 0820	Muddy Creek 0820C	Lake Lavon 0821	Pilot Grove Creek 0821A	Sister Grove Creek 0821B	Elm Fork Trinity River Below Lewisville Lake 0822	Lewisville Lake 0823	Little Elm Creek 0823A	Stewart Creek 0823B	Clear Creek 0823C	Elm Fork Trinity River Above Ray Roberts Lake 0824	Denton Creek 0825
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	**C**	NC
Nutrient Enrichment												
Ammonia Nitrogen	**C**	**C**	NC	NC	NC	**C**	**C**	**C**	NA	NC	**C**	NC
Nitrite + Nitrate Nitrogen	**C**	**C**	**C**	NC	NC	NC	**C**	NC	NA	NC	**C**	NC
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NA	NC	**C**	NC
Total Phosphorus	NC	NC	NA	NA	NA	NC	NC	NC	NA	NC	**C**	NA
Algal Growth												
Chlorophyll *a*	**C**	NA	NA	NA	NA	**C**	NC	NA	NA	NA	**C**	NA
Public Water Supply												
Finished Water: Chloride	NC	X	NC	X	X	NC	NC	X	X	X	X	NC
Finished Water: Sulfate	NC	X	NC	X	X	NC	NC	X	X	X	X	NC
Finished Water: TDS	NC	X	NC	X	X	NC	NC	X	X	X	X	NC
Surface Water: Chloride	NC	X	NC	X	X	NC	NC	X	X	X	X	NC
Surface Water: Sulfate	NA	X	NC	X	X	NC	NC	X	X	X	X	NC
Surface Water: TDS	NC	X	NA	X	X	NC	NC	X	X	X	X	NC

Trinity River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0826 Grapevine Lake	0826A Denton Creek	0827 White Rock Lake	0828 Lake Arlington	0828A Village Creek	0829 Clear Fork Trinity River Below Benbrook Lake	0829A Lake Como	0830 Benbrook Lake	0831 Clear Fork Trinity River Below Lake Weatherford	0832 Lake Weatherford	0833 Clear Frk. Trinity R. Above L. Weatherford	0834 Lake Amon G. Carter
WATER QUALITY CONCERNS												
Sediment Contaminants	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	**C**	NA	NC	NC	NC	NA	**C**	NC	NA	NC	NA
Nitrite + Nitrate Nitrogen	NC	NC	NA	NC	NC	NC	NA	NC	NC	NA	NC	NA
Orthophosphorus	NC	NC	NA	NC	NC	NC	NA	NC	**C**	NA	NC	NA
Total Phosphorus	NC	NC	NA	NA	NA	NC	NA	NC	NC	NA	NC	NA
Algal Growth												
Chlorophyll *a*	NC	NA	NA	NA	NA	NC	NA	**C**	NC	NA	NC	NA
Public Water Supply												
Finished Water: Chloride	NC	X	X	NC	X	NC	X	NC	NC	NC	NC	NC
Finished Water: Sulfate	NC	X	X	NC	X	NC	X	NC	NC	NC	NC	NC
Finished Water: TDS	NC	X	X	NC	X	NC	X	NC	NC	NC	NC	NC
Surface Water: Chloride	NA	X	X	NC	X	NC	X	NC	NC	NA	NA	NA
Surface Water: Sulfate	NA	X	X	NC	X	NC	X	NC	NC	NA	NA	NA
Surface Water: TDS	NC	X	X	NC	X	NC	X	NC	NC	NA	NA	NA

Trinity River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	0835 Richland Cr. Below Richland-Chambers Res.	0836 Richland-Chambers Reservoir	0837 Richland Creek Above Richland-Chambers Res.	0838 Joe Pool Lake	0839 Elm Fork Trinity River Below Ray Roberts Lake	0840 Ray Roberts Lake	0840A Unnamed tributary of Jordan Creek	0841 Lower West Fork Trinity River	0841A Mountain Creek Lake
WATER QUALITY CONCERNS									
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NC	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment									
Ammonia Nitrogen	NA	NC	NC	NA	NA	**C**	**C**	NC	NA
Nitrite + Nitrate Nitrogen	NA	**C**	NC	NA	NA	**C**	NC	**C**	NA
Orthophosphorus	NA	NC	NC	NA	NA	**C**	**C**	**C**	NA
Total Phosphorus	NA	NC	NC	NA	NA	**C**	NA	**C**	NA
Algal Growth									
Chlorophyll *a*	NA	**C**	NC	NA	NA	NC	NA	NC	NA
Public Water Supply									
Finished Water: Chloride	NC	NC	NC	NC	NC	NC	X	X	NC
Finished Water: Sulfate	NC	NC	NC	NC	NC	NC	X	X	NC
Finished Water: TDS	NC	NC	NC	NC	NC	NC	X	X	NC
Surface Water: Chloride	NA	NC	NC	NA	NA	NC	X	X	NA
Surface Water: Sulfate	NA	NC	NC	NC	NA	NC	X	X	NA
Surface Water: TDS	NA	NC	NC	NC	NA	NC	X	X	NA

Trinity – San Jacinto Coastal Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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Trinity-San Jacinto Coastal Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Cedar Bayou Tidal 0901	Cedar Bayou Above Tidal 0902
DESIGNATED USE SUPPORT		
Contact Recreation Use	FS	FS
Noncontact Recreation Use	X	X
Public Water Supply Use	X	FS
Aquatic Life Use		
Dissolved Oxygen grab min	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA
Dissolved Oxygen 24-hour min	NA	NA
Metals in water	NA	NA
Organics in water	NA	NA
Water Toxicity Tests	NA	NA
Sediment Toxicity Tests	NA	NA
Habitat	NA	NA
Macrobenthos Community	NA	NA
Fish Community	NA	NA
Fish Consumption Use		
Advisories and Closures	**NS**	NA
Human Health Criteria	NA	NA
GENERAL USE SUPPORT		
Water Temperature	FS	FS
pH	FS	FS
Chloride	X	FS
Sulfate	X	FS
Total Dissolved Solids	X	FS

Trinity-San Jacinto Coastal Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Cedar Bayou Tidal 0901	Cedar Bayou Above Tidal 0902
WATER QUALITY CONCERNS		
Sediment Contaminants	NA	NA
Fish Tissue Contaminants	NA	NA
Narrative	NC	NC
Nutrient Enrichment		
Ammonia Nitrogen	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC
Orthophosphorus	NC	NC
Total Phosphorus	NC	NC
Algal Growth		
Chlorophyll *a*	NC	NC
Public Water Supply		
Finished Water: Chloride	X	NC
Finished Water: Sulfate	X	NC
Finished Water: TDS	X	NC
Surface Water: Chloride	X	NC
Surface Water: Sulfate	X	NC
Surface Water: TDS	X	NC

San Jacinto River Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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San Jacinto River Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	San Jacinto River Tidal 1001	Lake Houston 1002	Luce Bayou 1002B	East Fork San Jacinto River 1003	West Fork San Jacinto River 1004	Houston Ship Ch./San Jacinto River Tidal 1005	Houston Ship Channel Tidal 1006	Halls Bayou Below US 59 1006D	Halls Bayou Above US 59 1006E	Big Gulch Above Tidal 1006F	Spring Gully Above Tidal 1006H	Unnamed Tributary of Halls Bayou 1006I
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	FS	**NS**	X	X	**NS**	**NS**	**NS**	**NS**	**NS**
Noncontact Recreation Use	X	X	X	X	X	FS	X	X	X	X	X	X
Public Water Supply Use	X	FS	X	FS	FS	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	NA	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	FS	FS	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	**NS**	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	**NS**	FS	NA	NA	NA	**NS**	**NS**	NA	NA	NA	NA	NA
Human Health Criteria	FS	FS	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	X	FS	FS	FS	FS	X	X	X	X	X
pH	FS	FS	X	FS	FS	FS	FS	X	X	X	X	X
Chloride	X	FS	X	FS	FS	X	X	X	X	X	X	X
Sulfate	X	FS	X	FS	FS	X	X	X	X	X	X	X
Total Dissolved Solids	X	FS	X	FS	FS	X	X	X	X	X	X	X

San Jacinto River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Unnamed Tributary of Halls Bayou 1006J	Houston Ship Ch./ Buffalo Bayou Tidal 1007	Brays Bayou Above Tidal 1007B	Keegans Bayou Above Tidal 1007C	Sims Bayou Above Tidal 1007D	Willow Waterhole Bayou Above Tidal 1007E	Berry Bayou Above Tidal 1007F	Kuhlman Gully Above Tidal 1007G	Pine Gully Above Tidal 1007H	Plum Creek Above Tidal 1007I	Country Club Bayou Above Tidal 1007K	Unnamed Non-Tidal Trib. of Brays Bayou 1007L
DESIGNATED USE SUPPORT												
Contact Recreation Use	**NS**	X	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	**NS**	**NS**	**NS**	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	**PS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	FS	X	X	X	X	X	X	X	X	X	X
pH	X	FS	X	X	X	X	X	X	X	X	X	X
Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	X	X	X	X	X	X	X	X	X	X	X	X

Trinity River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Unnamed Non-Tidal Trib. of Hunting Bayou 1007M	Unnamed Non-Tidal Tributary of Sims Bayou 1007N	Unnamed Non-Tidal Trib. of Buffalo Bayou 1007O	Brays Bayou Above Tidal 1007P	Sims Bayou Above Tidal 1007Q	Hunting Bayou Above Tidal 1007R	Spring Creek 1008	Upper Panther Branch 1008B	Lower Panther Branch 1008C	Bear Branch 1008E	Lake Woodlands 1008F	Upper Panther Branch above Bear Branch 1008G
DESIGNATED USE SUPPORT												
Contact Recreation Use	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	FS	NA	FS	NA	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	FS	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	**NS**	FS	**PS**	**NS**	FS	FS	FS	FS	NA	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	X	X	X	X	FS	X	X	X	X	X
pH	X	X	X	X	X	X	FS	X	X	X	X	X
Chloride	X	X	X	X	X	X	FS	X	X	X	X	X
Sulfate	X	X	X	X	X	X	FS	X	X	X	X	X
Total Dissolved Solids	X	X	X	X	X	X	FS	X	X	X	X	X

Trinity River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Cypress Creek 1009	Caney Creek 1010	Peach Creek 1011	Lake Conroe 1012	Buffalo Bayou Tidal 1013	Little White Oak Bayou 1013A	Unnd. Non-Tidal Trib. of Buffalo Bayou Tidal 1013C	Buffalo Bayou Above Tidal 1014	South Mayde Creek 1014H	Turkey Creek 1014K	Neimans Bayou 1014M	Rummel Creek 1014N
DESIGNATED USE SUPPORT												
Contact Recreation Use	**NS**	FS	FS	NA	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	FS	FS	FS	X	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	**PS**	FS	FS	FS	FS	**NS**	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	FS	FS	FS	X	X	FS	X	X	X	X
pH	FS	FS	FS	FS	FS	X	X	FS	X	X	X	X
Chloride	FS	FS	FS	FS	X	X	X	FS	X	X	X	X
Sulfate	FS	FS	FS	FS	X	X	X	FS	X	X	X	X
Total Dissolved Solids	FS	FS	FS	FS	X	X	X	FS	X	X	X	X

Trinity River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Spring Branch 1014O	Lake Creek 1015	Greens Bayou Above Tidal 1016	Garners Bayou 1016A	Unnamed Tributary of Greens Bayou 1016B	Unnamed Tributary of Greens Bayou 1016C	Unnamed Tributary of Greens Bayou 1016D	Whiteoak Bayou Above Tidal 1017	Brickhouse Gully / Bayou 1017A	Cole Creek 1017B	Unnamed Tributary of White Oak Bayou 1017D	Unnamed Tributary of White Oak Bayou 1017E
DESIGNATED USE SUPPORT												
Contact Recreation Use	**NS**	NA	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	FS	X	X	X	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	**PS**	FS	FS	FS	**NS**	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	NA	FS	X	X	X	X	FS	X	X	X	X
pH	X	NA	FS	X	X	X	X	FS	X	X	X	X
Chloride	X	NA	FS	X	X	X	X	FS	X	X	X	X
Sulfate	X	NA	FS	X	X	X	X	FS	X	X	X	X
Total Dissolved Solids	X	NA	FS	X	X	X	X	FS	X	X	X	X

San Jacinto River Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	San Jacinto River Tidal 1001	Lake Houston 1002	Luce Bayou 1002B	East Fork San Jacinto River 1003	West Fork San Jacinto River 1004	Houston Ship Ch./San Jacinto River Tidal 1005	Houston Ship Channel Tidal 1006	Halls Bayou Below US 59 1006D	Halls Bayou Above US 59 1006E	Big Gulch Above Tidal 1006F	Spring Gully Above Tidal 1006H	Unnamed Tributary of Halls Bayou 1006I
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	**C**	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	**C**	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NC	NC	NC	**C**	**C**	**C**	**C**	**C**	**C**
Nitrite + Nitrate Nitrogen	NC	**C**	NC	NC	**C**	NC	**C**	NA	NA	NA	NA	NA
Orthophosphorus	NC	**C**	NC	NC	**C**	NC	NC	NA	NA	NA	NA	NA
Total Phosphorus	NC	**C**	NC	NC	NC	NC	NC	NA	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NC	NC	NA	NC	NC	NC	NC	NA	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	NC	X	NC	NC	X	X	X	X	X	X	X
Finished Water: Sulfate	X	NC	X	NC	NC	X	X	X	X	X	X	X
Finished Water: TDS	X	NC	X	NC	NC	X	X	X	X	X	X	X
Surface Water: Chloride	X	NC	X	NC	NC	X	X	X	X	X	X	X
Surface Water: Sulfate	X	NC	X	NC	NC	X	X	X	X	X	X	X
Surface Water: TDS	X	NC	X	NC	NC	X	X	X	X	X	X	X

San Jacinto River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Unnamed Tributary of Halls Bayou 1006J	Houston Ship Ch./Buffalo Bayou Tidal 1007	Brays Bayou Above Tidal 1007B	Keegans Bayou Above Tidal 1007C	Sims Bayou Above Tidal 1007D	Willow Waterhole Bayou Above Tidal 1007E	Berry Bayou Above Tidal 1007F	Kuhlman Gully Above Tidal 1007G	Pine Gully Above Tidal 1007H	Plum Creek Above Tidal 1007I	Country Club Bayou Above Tidal 1007K	Unnamed Non-Tidal Trib. of Brays Bayou 1007L
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	**C**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	**C**	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	**C**	**C**	**C**	**C**	**C**	NC	**C**	**C**	**C**	**C**	**C**	NC
Nitrite + Nitrate Nitrogen	NA	**C**	**C**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Orthophosphorus	NA	**C**	**C**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorus	NA	**C**	**C**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Finished Water: Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Finished Water: TDS	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: TDS	X	X	X	X	X	X	X	X	X	X	X	X

San Jacinto River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Unnamed Non-Tidal Trib. of Hunting Bayou 1007M	Unnamed Non-Tidal Tributary of Sims Bayou 1007N	Unnamed Non-Tidal Trib. of Buffalo Bayou 1007O	Brays Bayou Above Tidal 1007P	Sims Bayou Above Tidal 1007Q	Hunting Bayou Above Tidal 1007R	Spring Creek 1008	Upper Panther Branch 1008B	Lower Panther Branch 1008C	Bear Branch 1008E	Lake Woodlands 1008F	Upper Panther Branch above Bear Branch 1008G
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	**C**	**C**	**C**	**C**	**C**	NC	**C**	NC	NC	NA	**C**
Nitrite + Nitrate Nitrogen	NA	NA	NA	NA	**C**	NA	**C**	NA	NA	NA	NA	NA
Orthophosphorus	NA	NA	NA	NA	**C**	NA	**C**	NA	NA	NA	NA	NA
Total Phosphorus	NA	NA	NA	NA	**C**	NA	**C**	**C**	NA	NC	NA	NC
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NA	NC	NA	NC	NA	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	X	NC	X	X	X	X	X
Finished Water: Sulfate	X	X	X	X	X	X	NC	X	X	X	X	X
Finished Water: TDS	X	X	X	X	X	X	NC	X	X	X	X	X
Surface Water: Chloride	X	X	X	X	X	X	NC	X	X	X	X	X
Surface Water: Sulfate	X	X	X	X	X	X	NC	X	X	X	X	X
Surface Water: TDS	X	X	X	X	X	X	NC	X	X	X	X	X

San Jacinto River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Cypress Creek 1009	Caney Creek 1010	Peach Creek 1011	Lake Conroe 1012	Buffalo Bayou Tidal 1013	Little White Oak Bayou 1013A	Unnd. Non-Tidal Trib. of Buffalo Bayou Tidal 1013C	Buffalo Bayou Above Tidal 1014	South Mayde Creek 1014H	Turkey Creek 1014K	Neimans Bayou 1014M	Rummel Creek 1014N
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	**C**	NC	NC	NC	NC	**C**	**C**	**C**	NC	NC	**C**	**C**
Nitrite + Nitrate Nitrogen	**C**	NC	NC	NC	**C**	NA	NA	**C**	NA	NA	NA	NA
Orthophosphorus	**C**	NC	NC	NC	**C**	NA	NA	**C**	NA	NA	NA	NA
Total Phosphorus	**C**	NC	NC	NC	**C**	NA	NA	**C**	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NC	NC	NC	NA	NC	NA	NA	NC	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	NC	NC	NC	NC	X	X	X	X	X	X	X	X
Finished Water: Sulfate	NC	NC	NC	NC	X	X	X	X	X	X	X	X
Finished Water: TDS	NC	NC	NC	NC	X	X	X	X	X	X	X	X
Surface Water: Chloride	NC	NC	NC	NC	X	X	X	X	X	X	X	X
Surface Water: Sulfate	NC	NC	NC	NC	X	X	X	X	X	X	X	X
Surface Water: TDS	NC	NC	NC	NC	X	X	X	X	X	X	X	X

San Jacinto River Basin Tabular Summary of Water Quality Concerns (continued)

	Spring Branch 1014O	Lake Creek 1015	Greens Bayou Above Tidal 1016	Garners Bayou 1016A	Unnamed Tributary of Greens Bayou 1016B	Unnamed Tributary of Greens Bayou 1016C	Unnamed Tributary of Greens Bayou 1016D	Whiteoak Bayou Above Tidal 1017	Brickhouse Gully / Bayou 1017A	Cole Creek 1017B	Unnamed Tributary of White Oak Bayou 1017D	Unnamed Tributary of White Oak Bayou 1017E
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NA	**C**	**C**	NC	**C**	**C**	**C**	**C**	**C**	**C**	NC
Nitrite + Nitrate Nitrogen	NA	NA	**C**	NA	NA	NA	NA	**C**	NA	NA	NA	NA
Orthophosphorus	NA	NA	**C**	NA	NA	NA	NA	**C**	NA	NA	NA	NA
Total Phosphorus	NA	NA	**C**	NA	NA	NA	NA	**C**	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NC	NA	NA	NA	NA	NC	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	NC	X	X	X	X	X	X	X	X	X	X
Finished Water: Sulfate	X	NC	X	X	X	X	X	X	X	X	X	X
Finished Water: TDS	X	NC	X	X	X	X	X	X	X	X	X	X
Surface Water: Chloride	X	NA	X	X	X	X	X	X	X	X	X	X
Surface Water: Sulfate	X	NA	X	X	X	X	X	X	X	X	X	X
Surface Water: TDS	X	NA	X	X	X	X	X	X	X	X	X	X

San Jacinto – Brazos Coastal Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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San Jacinto-Brazos Coastal Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	1101 Clear Creek Tidal	1101B Chigger Creek	1102 Clear Creek Above Tidal	1102A Cowart Creek	1102B Mary's Creek/ North Fork Mary's Creek	1103 Dickinson Bayou Tidal	1103A Bensons Bayou	1103B Bordens Gully	1103C Geisler Bayou	1103D Gum Bayou	1104 Dickinson Bayou Above Tidal	1105 Bastrop Bayou Tidal
DESIGNATED USE SUPPORT												
Contact Recreation Use	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	**NS**	FS	FS	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	**PS**	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	**NS**	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	FS	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	X	FS	X	X	FS	X	X	X	X	FS	FS
pH	FS	X	FS	X	X	FS	X	X	X	X	FS	FS
Chloride	X	X	**NS**	X	X	X	X	X	X	X	FS	X
Sulfate	X	X	FS	X	X	X	X	X	X	X	FS	X
Total Dissolved Solids	X	X	**NS**	X	X	X	X	X	X	X	FS	X

San Jacinto-Brazos Coastal Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	1107 Chocolate Bayou Tidal	1108 Chocolate Bayou Above Tidal	1109 Oyster Creek Tidal	1110 Oyster Creek Above Tidal	1111 Old Brazos River Channel Tidal	1113 Armand Bayou Tidal	1113A Armand Bayou Above Tidal
DESIGNATED USE SUPPORT							
Contact Recreation Use	FS	FS	FS	FS	FS	FS	NA
Noncontact Recreation Use	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	FS	X	X	X
Aquatic Life Use							
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	FS	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use							
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT							
Water Temperature	FS	FS	FS	FS	FS	FS	X
pH	FS	FS	FS	FS	FS	FS	X
Chloride	X	FS	X	FS	X	X	X
Sulfate	X	FS	X	FS	X	X	X
Total Dissolved Solids	X	FS	X	FS	X	X	X

San Jacinto-Brazos Coastal Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1101 Clear Creek Tidal	1101B Chigger Creek	1102 Clear Creek Above Tidal	1102A Cowart Creek	1102B Mary's Creek/ North Fork Mary's Creek	1103 Dickinson Bayou Tidal	1103A Bensons Bayou	1103B Bordens Gully	1103C Geisler Bayou	1103D Gum Bayou	1104 Dickinson Bayou Above Tidal	1105 Bastrop Bayou Tidal
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	**C**	**C**	**C**	**C**	NC	NC	NC	NC	NC	**C**	NC
Nitrite + Nitrate Nitrogen	NC	NC	**C**	NC	NC	NC	NC	NC	NC	NC	NC	NC
Orthophosphorus	NC	NA	**C**	NA	NA	NC	NA	NA	NA	NA	NC	NC
Total Phosphorus	NC	NA	**C**	NA	NA	NC	NA	NA	NA	NA	NC	NC
Algal Growth												
Chlorophyll *a*	NC	NA	NC	NA	NA	NC	NA	NA	NA	NA	NC	NC
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Finished Water: Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Finished Water: TDS	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: TDS	X	X	X	X	X	X	X	X	X	X	X	X

San Jacinto-Brazos Coastal Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1107 Chocolate Bayou Tidal	1108 Chocolate Bayou Above Tidal	1109 Oyster Creek Tidal	1110 Oyster Creek Above Tidal	1111 Old Brazos River Channel Tidal	1113 Armand Bayou Tidal	1113A Armand Bayou Above Tidal
WATER QUALITY CONCERNS							
Sediment Contaminants	NA	NA	NA	NA	**C**	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NC	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment							
Ammonia Nitrogen	NC	NC	NC	NC	NC	NC	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NC	NA
Orthophosphorus	NC	NC	NC	NC	NC	NC	NA
Total Phosphorus	NC	NC	NC	NC	NC	NC	NA
Algal Growth							
Chlorophyll *a*	NC	NC	NC	NC	NC	**C**	NA
Public Water Supply							
Finished Water: Chloride	X	X	X	NC	X	X	X
Finished Water: Sulfate	X	X	X	NC	X	X	X
Finished Water: TDS	X	X	X	NC	X	X	X
Surface Water: Chloride	X	X	X	NC	X	X	X
Surface Water: Sulfate	X	X	X	NC	X	X	X
Surface Water: TDS	X	X	X	NC	X	X	X

Brazos River Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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Brazos River Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Brazos River Tidal 1201	Brazos River Below Navasota River 1202	Allen's Creek 1202H	Bessie's Creek 1202I	Big Creek 1202J	Mill Creek 1202K	Whitney Lake 1203	Steele Creek 1203A	Brazos River Below Lake Granbury 1204	Lake Granbury 1205	Brazos River Below Possum Kingdom Lake 1206	Palo Pinto Creek below Palo Pinto Reservoir 1206D
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	**NS**	NA	**NS**	FS	FS	NA	FS	FS	FS	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	FS	X	X	X	X	FS	X	X	FS	X	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	NA	FS	FS	FS	NA	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	X	X	X	X	FS	X	FS	FS	FS	X
pH	FS	FS	X	X	X	X	FS	X	FS	FS	FS	X
Chloride	X	FS	X	X	X	X	FS	X	FS	FS	FS	X
Sulfate	X	FS	X	X	X	X	FS	X	FS	FS	FS	X
Total Dissolved Solids	X	FS	X	X	X	X	FS	X	FS	FS	FS	X

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Possum Kingdom Lake 1207	Brazos River Above Possum Kingdom Lake 1208	Navasota River Below Lake Limestone 1209	Country Club Lake 1209A	Fin Feather Lake 1209B	Carters Creek 1209C	Country Club Branch 1209D	Cedar Creek 1209G	Duck Creek 1209H	Gibbons Creek 1209I	Shepherd Creek 1209J	Steele Creek 1209K
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	**NS**	NA	NA	**NS**	NA	**NS**	FS	**NS**	**NS**	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	X	FS	X	X	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	NA	NA	FS	NA	FS	FS	**NS**	NA	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	FS	X	X	X	X	X	X	X	X	X
pH	FS	FS	FS	X	X	X	X	X	X	X	X	X
Chloride	FS	FS	FS	X	X	X	X	X	X	X	X	X
Sulfate	FS	FS	FS	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	FS	FS	FS	X	X	X	X	X	X	X	X	X

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Lake Mexia 1210	Navasota River above Lake Mexia 1210A	Yegua Creek 1211	Davidson Creek 1211A	Somerville Lake 1212	Middle Yegua Creek 1212A	East Yegua Creek 1212B	Little River 1213	San Gabriel River 1214	Lampasas River Below Stillhouse Hollow Lake 1215	Stillhouse Hollow Lake 1216	Lampasas River Above Stillhouse Hollow Lake 1217
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	**NS**	FS	**NS**	FS	FS	**NS**	FS	FS	FS	FS	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	X	FS	X	FS	X	X	FS	FS	FS	FS	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	X	FS	X	FS	X	X	FS	FS	FS	FS	FS
pH	FS	X	FS	X	**PS**	X	X	FS	FS	FS	FS	FS
Chloride	FS	X	FS	X	FS	X	X	FS	FS	FS	FS	FS
Sulfate	FS	X	FS	X	FS	X	X	FS	FS	FS	FS	FS
Total Dissolved Solids	FS	X	FS	X	FS	X	X	FS	FS	FS	FS	FS

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Rocky Creek 1217A	Sulphur Creek 1217B	Simms Creek 1217C	Nolan Creek/ South Nolan Creek 1218	Leon River Below Belton Lake 1219	Belton Lake 1220	Cowhouse Creek 1220A	Leon River Below Proctor Lake 1221	Resley Creek 1221A	South Leon River 1221B	Proctor Lake 1222	Duncan Creek 1222A
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	**NS**	NA	FS	FS	**NS**	NA	FS	FS	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	FS	FS	X	FS	X	X	FS	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	NA	FS	FS	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	X	FS	FS	FS	X	FS	X	X	FS	X
pH	X	X	X	FS	FS	FS	X	FS	X	X	FS	X
Chloride	X	X	X	FS	FS	FS	X	FS	X	X	FS	X
Sulfate	X	X	X	FS	FS	FS	X	FS	X	X	FS	X
Total Dissolved Solids	X	X	X	FS	FS	FS	X	FS	X	X	FS	X

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Rush-Copperas Creek 1222B	Sabana River 1222C	Leon River Below Leon Reservoir 1223	Leon Reservoir 1224	Waco Lake 1225	Hog Creek 1225A	North Bosque River 1226	Duffau Creek 1226A	Green Creek 1226B	Meridian Creek 1226C	Neils Creek 1226D	Indian Creek 1226E
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	NA	FS	FS	FS	FS	**NS**	FS	FS	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	FS	FS	FS	X	FS	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	NA	FS	NA	FS	FS	FS	FS	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	FS	NA	FS	X	FS	X	X	X	X	X
pH	X	X	FS	NA	FS	X	FS	X	X	X	X	X
Chloride	X	X	FS	FS	FS	X	FS	X	X	X	X	X
Sulfate	X	X	FS	FS	FS	X	FS	X	X	X	X	X
Total Dissolved Solids	X	X	FS	FS	FS	X	FS	X	X	X	X	X

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Sims Creek 1226F	Spring Creek 1226G	Nolan River 1227	Lake Pat Cleburne 1228	Paluxy River /North Paluxy River 1229	Lake Palo Pinto 1230	Lake Graham 1231	Clear Fork Brazos River 1232	California Creek 1232A	Deadman Creek 1232B	Hubbard Creek Reservoir 1233	Lake Cisco 1234
DESIGNATED USE SUPPORT												
Contact Recreation Use	**NS**	FS	**NS**	NA	FS	NA	NA	FS	FS	FS	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	FS	FS	FS	FS	X	X	X	FS	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	NA	FS	NA	NA	FS	FS	FS	FS	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	FS	NA	FS	NA	NA	FS	X	X	FS	NA
pH	X	X	FS	NA	FS	NA	NA	FS	X	X	FS	NA
Chloride	X	X	FS	NA	FS	NA	NA	FS	X	X	FS	NA
Sulfate	X	X	**NS**	NA	FS	NA	NA	FS	X	X	FS	NA
Total Dissolved Solids	X	X	FS	NA	FS	NA	NA	FS	X	X	FS	NA

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Lake Stamford 1235	Fort Phantom Hill Reservoir 1236	Lake Sweetwater 1237	Salt Fork Brazos River 1238	White River 1239	White River Lake 1240	White River above White River Reservoir 1240A	Double Mountain Fork Brazos River 1241	N. Fork Double Mtn. Fork Brazos River 1241A	Brazos River Above Navasota River 1242	Marlin City Lake System 1242A	Thompson Creek 1242D
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	NA	NA	FS	NA	FS	NA	FS	FS	**NS**	NA	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	FS	FS	X	FS	FS	X	X	X	FS	FS	X
Aquatic Life Use												
Dissolved Oxygen grab min	NA	NA	NA	FS	NA	FS	NA	FS	FS	FS	NA	**PS**
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	NA	NA	NA	FS	X	FS	X	FS	X	FS	X	X
pH	NA	NA	NA	FS	X	FS	X	FS	X	FS	X	X
Chloride	NA	NA	NA	**NS**	X	**NS**	X	FS	X	FS	X	X
Sulfate	NA	NA	NA	FS	X	FS	X	FS	X	FS	X	X
Total Dissolved Solids	NA	NA	NA	**NS**	X	FS	X	FS	X	FS	X	X

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Little Brazos River 1242E	Pond Creek 1242F	Campbells Creek 1242I	Deer Creek 1242J	Mud Creek 1242K	Pin Oak Creek 1242L	Spring Creek 1242M	Tehuacana Creek 1242N	Walnut Creek 1242O	Big Creek 1242P	Salado Creek 1243	Brushy Creek 1244
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	**NS**	FS	**NS**	**NS**	**NS**	**NS**	FS	**NS**	FS	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	X	X	X	X	FS	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	X	X	X	X	X	X	X	X	FS	FS
pH	X	X	X	X	X	X	X	X	X	X	FS	FS
Chloride	X	X	X	X	X	X	X	X	X	X	FS	FS
Sulfate	X	X	X	X	X	X	X	X	X	X	FS	FS
Total Dissolved Solids	X	X	X	X	X	X	X	X	X	X	FS	FS

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Brushy Creek Above South Brushy Creek 1244A	Upper Oyster Creek 1245	Middle Bosque/South Bosque River 1246	Tonk Creek 1246D	Wasp Creek 1246E	Granger Lake 1247	Willis Creek 1247A	San Gabriel/North Fork San Gabriel River 1248	Berry Creek 1248A	Huddleston Branch 1248B	Mankins Branch 1248C	Lake Georgetown 1249
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	**NS**	FS	FS	**NS**	FS	**NS**	FS	FS	NA	NA	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	FS	X	X	X	FS	X	FS	X	X	X	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	NA	NA	NA	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	FS	FS	X	X	FS	X	FS	X	X	X	FS
pH	X	FS	FS	X	X	FS	X	FS	X	X	X	FS
Chloride	X	FS	FS	X	X	FS	X	FS	X	X	X	FS
Sulfate	X	FS	FS	X	X	FS	X	FS	X	X	X	FS
Total Dissolved Solids	X	FS	FS	X	X	FS	X	**NS**	X	X	X	FS

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	South Fork San Gabriel River 1250	North Fork San Gabriel River 1251	Lake Limestone 1252	Navasota River Below Lake Mexia 1253	Aquilla Reservoir 1254	Upper North Bosque River 1255	Goose Branch 1255A	North Fork Upper North Bosque River 1255B	Scarborough Creek 1255C	South Fork North Bosque River 1255D	Unnamed tributary of Goose Branch 1255E	Unnamed tributary of Scarborough Creek 1255F
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	NA	FS	FS	FS	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	FS	FS	FS	FS	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	FS	FS	FS	FS	X	X	X	X	X	X
pH	FS	FS	FS	FS	FS	FS	X	X	X	X	X	X
Chloride	FS	FS	FS	FS	FS	FS	X	X	X	X	X	X
Sulfate	FS	FS	FS	FS	FS	FS	X	X	X	X	X	X
Total Dissolved Solids	FS	FS	FS	FS	FS	FS	X	X	X	X	X	X

Brazos River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Woodhollow Branch 1255G	Brazos River/Lake Brazos 1256	Aquilla Creek 1256A	Brazos River Below Lake Whitney 1257
DESIGNATED USE SUPPORT				
Contact Recreation Use	**NS**	FS	FS	FS
Noncontact Recreation Use	X	X	X	X
Public Water Supply Use	X	FS	X	FS
Aquatic Life Use				
Dissolved Oxygen grab min	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA
Habitat	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA
Fish Consumption Use				
Advisories and Closures	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA
GENERAL USE SUPPORT				
Water Temperature	X	FS	X	FS
pH	X	FS	X	FS
Chloride	X	FS	X	FS
Sulfate	X	FS	X	FS
Total Dissolved Solids	X	FS	X	FS

Brazos River Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Brazos River Tidal 1201	Brazos River Below Navasota River 1202	Allen's Creek 1202H	Bessie's Creek 1202I	Big Creek 1202J	Mill Creek 1202K	Whitney Lake 1203	Steele Creek 1203A	Brazos River Below Lake Granbury 1204	Lake Granbury 1205	Brazos River Below Possum Kingdom Lake 1206	Palo Pinto Creek below Palo Pinto Reservoir 1206D
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NA	NA	NA	NC	NA	NA	NC	NA	NC	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	NA	NC	NC	**C**	NA	NC	NC	NC	NC
Orthophosphorus	NC	NC	**C**	NA	NC	NC	NC	NA	NC	NC	NC	NC
Total Phosphorus	NC	NC	NA	NA	NA	NC	NA	NA	NA	NA	NC	NA
Algal Growth												
Chlorophyll *a*	NC	**C**	NA	NA	NA	NC	NA	NA	NA	NA	NC	NA
Public Water Supply												
Finished Water: Chloride	NC	NC	X	X	X	X	NC	X	X	NC	X	NC
Finished Water: Sulfate	NC	NC	X	X	X	X	NC	X	X	NC	X	NC
Finished Water: TDS	NC	NC	X	X	X	X	NC	X	X	NC	X	NC
Surface Water: Chloride	NA	NC	X	X	X	X	**C**	X	X	**C**	X	NC
Surface Water: Sulfate	NA	NC	X	X	X	X	NC	X	X	NC	X	**C**
Surface Water: TDS	NA	NC	X	X	X	X	NC	X	X	**C**	X	NC

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Possum Kingdom Lake 1207	Brazos River Above Possum Kingdom Lake 1208	Navasota River Below Lake Limestone 1209	Country Club Lake 1209A	Fin Feather Lake 1209B	Carters Creek 1209C	Country Club Branch 1209D	Cedar Creek 1209G	Duck Creek 1209H	Gibbons Creek 1209I	Shepherd Creek 1209J	Steele Creek 1209K
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	**C**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	**C**	**C**	NC	**C**	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	NA	NA	**C**	NA	NC	NC	NC	NC	NC
Orthophosphorus	NC	NC	NC	NA	NA	**C**	NA	NC	NC	NC	NC	NC
Total Phosphorus	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	**C**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	**C**	X	NC	X	X	X	X	X	X	X	X	X
Finished Water: Sulfate	**C**	X	NC	X	X	X	X	X	X	X	X	X
Finished Water: TDS	**C**	X	NC	X	X	X	X	X	X	X	X	X
Surface Water: Chloride	**C**	X	NC	X	X	X	X	X	X	X	X	X
Surface Water: Sulfate	**C**	X	NC	X	X	X	X	X	X	X	X	X
Surface Water: TDS	**C**	X	NC	X	X	X	X	X	X	X	X	X

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Lake Mexia 1210	Navasota River above Lake Mexia 1210A	Yegua Creek 1211	Davidson Creek 1211A	Somerville Lake 1212	Middle Yegua Creek 1212A	East Yegua Creek 1212B	Little River 1213	San Gabriel River 1214	Lampasas River Below Stillhouse Hollow Lake 1215	Stillhouse Hollow Lake 1216	Lampasas River Above Stillhouse Hollow Lake 1217
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NA	NA	NA	NA	NA	NA	NA	NC	NC	NC	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total Phosphorus	**C**	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NC	NA	NA	NA	NA	NA	NA	NA	NC	NC	NA	NA
Public Water Supply												
Finished Water: Chloride	NC	X	NC	X	NC	X	X	NC	NC	NC	NC	X
Finished Water: Sulfate	NC	X	NC	X	NC	X	X	NC	NC	NC	NC	X
Finished Water: TDS	NC	X	NC	X	NC	X	X	NC	NC	NC	NC	X
Surface Water: Chloride	NC	X	NC	X	NC	X	X	NC	NC	NC	NC	X
Surface Water: Sulfate	NC	X	NC	X	NC	X	X	NC	NC	NC	NC	X
Surface Water: TDS	NC	X	NC	X	NC	X	X	NC	NC	NC	NC	X

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1217A Rocky Creek	1217B Sulphur Creek	1217C Simms Creek	1218 Nolan Creek/ South Nolan Creek	1219 Leon River Below Belton Lake	1220 Belton Lake	1220A Cowhouse Creek	1221 Leon River Below Proctor Lake	1221A Resley Creek	1221B South Leon River	1222 Proctor Lake	1222A Duncan Creek
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	**C**	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NA	NA	NC	NC	NC	NC	NC	NA	NC	NC	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	**C**	NC	**C**	NC	NC	NA	NC	NC	NA
Orthophosphorus	NC	NC	NC	**C**	NC	NC	NC	NC	NA	NC	NC	NA
Total Phosphorus	NA	NA	NA	**C**	NA	NC	NA	NC	NA	NC	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NC	NA	NC	NA	**C**	NA	NC	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	X	NC	NC	X	NC	X	X	NC	X
Finished Water: Sulfate	X	X	X	X	NC	NC	X	NC	X	X	NC	X
Finished Water: TDS	X	X	X	X	NC	NC	X	NC	X	X	NC	X
Surface Water: Chloride	X	X	X	X	NC	NC	X	NC	X	X	NC	X
Surface Water: Sulfate	X	X	X	X	NC	NC	X	NC	X	X	NC	X
Surface Water: TDS	X	X	X	X	NC	NC	X	NC	X	X	NC	X

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1222B Rush-Copperas Creek	1222C Sabana River	1223 Leon River Below Leon Reservoir	1224 Leon Reservoir	1225 Waco Lake	1225A Hog Creek	1226 North Bosque River	1226A Duffau Creek	1226B Green Creek	1226C Meridian Creek	1226D Neils Creek	1226E Indian Creek
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	**C**	NC	NC	NC	NC	NC	NC	**C**
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total Phosphorus	NA	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Algal Growth												
Chlorophyll *a*	NA	NC	NC	NC	**C**	NC	**C**	NC	**C**	NC	NC	NA
Public Water Supply												
Finished Water: Chloride	X	X	NC	NC	NC	X	NC	X	X	X	X	X
Finished Water: Sulfate	X	X	NC	NC	NC	X	NC	X	X	X	X	X
Finished Water: TDS	X	X	NC	NC	NC	X	NC	X	X	X	X	X
Surface Water: Chloride	X	X	NC	NC	NC	X	NC	X	X	X	X	X
Surface Water: Sulfate	X	X	NC	NC	NC	X	NC	X	X	X	X	X
Surface Water: TDS	X	X	NC	NC	NC	X	NC	X	X	X	X	X

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1226F Sims Creek	1226G Spring Creek	1227 Nolan River	1228 Lake Pat Cleburne	1229 Paluxy River /North Paluxy River	1230 Lake Palo Pinto	1231 Lake Graham	1232 Clear Fork Brazos River	1232A California Creek	1232B Deadman Creek	1233 Hubbard Creek Reservoir	1234 Lake Cisco
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NA	NC	NA	NA	NC	NA	NC	NC	NA
Nitrite + Nitrate Nitrogen	NC	NC	**C**	NA	NC	NA	NA	**C**	**C**	**C**	NC	NA
Orthophosphorus	NC	NC	**C**	NA	NC	NA	NA	**C**	NC	**C**	NC	NA
Total Phosphorus	NC	NC	NC	NA	NC	NA	NA	NC	NA	**C**	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NC	NA	NC	NA	NA	NC	NA	NC	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	NC	NC	NC	NC	X	X	X	NC	NC
Finished Water: Sulfate	X	X	X	NC	NC	NC	NC	X	X	X	NC	NC
Finished Water: TDS	X	X	X	NC	NC	NC	NC	X	X	X	NC	NC
Surface Water: Chloride	X	X	X	NA	NC	NA	NA	X	X	X	NC	NA
Surface Water: Sulfate	X	X	X	NA	NC	NA	NA	X	X	X	NC	NA
Surface Water: TDS	X	X	X	NA	NC	NA	NA	X	X	X	NC	NA

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1235 Lake Stamford	1236 Fort Phantom Hill Reservoir	1237 Lake Sweetwater	1238 Salt Fork Brazos River	1239 White River	1240 White River Lake	1240A White River above White River Reservoir	1241 Double Mountain Fork Brazos River	1241A N. Fork Double Mtn. Fork Brazos River	1242 Brazos River Above Navasota River	1242A Marlin City Lake System	1242D Thompson Creek
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NA	NA	**C**	NA	NA	NA	NC	NC	NC	NA	NA
Nitrite + Nitrate Nitrogen	NA	NA	NA	NC	NA	NC	NA	NC	**C**	NC	NA	**C**
Orthophosphorus	NA	NA	NA	NC	NA	NC	NA	NC	NA	NC	NA	**C**
Total Phosphorus	NA	NA	NA	NC	NA	NA	NA	NC	NC	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NC	NA	NA	NA	NC	**C**	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	**C**	NC	NC	X	NC	NC	X	X	X	NC	NC	X
Finished Water: Sulfate	**C**	NC	**C**	X	NC	NC	X	X	X	NC	NC	X
Finished Water: TDS	**C**	NC	NC	X	NC	NC	X	X	X	NC	NC	X
Surface Water: Chloride	NA	NA	NA	X	NA	NC	X	X	X	NC	NC	X
Surface Water: Sulfate	NA	NA	NA	X	NA	NC	X	X	X	NC	NC	X
Surface Water: TDS	NA	NA	NA	X	NA	NC	X	X	X	NC	NC	X

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Little Brazos River 1242E	Pond Creek 1242F	Campbells Creek 1242I	Deer Creek 1242J	Mud Creek 1242K	Pin Oak Creek 1242L	Spring Creek 1242M	Tehuacana Creek 1242N	Walnut Creek 1242O	Big Creek 1242P	Salado Creek 1243	Brushy Creek 1244
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	**C**	**C**
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	**C**
Total Phosphorus	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	X	X	X	X	X	NC	NC
Finished Water: Sulfate	X	X	X	X	X	X	X	X	X	X	NC	NC
Finished Water: TDS	X	X	X	X	X	X	X	X	X	X	NC	NC
Surface Water: Chloride	X	X	X	X	X	X	X	X	X	X	NC	NC
Surface Water: Sulfate	X	X	X	X	X	X	X	X	X	X	NC	NC
Surface Water: TDS	X	X	X	X	X	X	X	X	X	X	NC	NC

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Brushy Creek Above South Brushy Creek 1244A	Upper Oyster Creek 1245	Middle Bosque/South Bosque River 1246	Tonk Creek 1246D	Wasp Creek 1246E	Granger Lake 1247	Willis Creek 1247A	San Gabriel/North Fork San Gabriel River 1248	Berry Creek 1248A	Huddleston Branch 1248B	Mankins Branch 1248C	Lake Georgetown 1249
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	**C**	NC	NC	NC	NC	NC	NC	NC	NC	NC	**C**	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NC	NC	NC	NC	NC	NA	NC	NC	NA	NA	NC
Nitrite + Nitrate Nitrogen	NC	NC	**C**	**C**	**C**	**C**	**C**	NC	NC	NA	NA	NC
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NC	NA	NA	NC
Total Phosphorus	NA	NC	NC	NC	NC	NC	NA	NC	NC	NA	NA	NC
Algal Growth												
Chlorophyll *a*	NA	NC	NC	NC	NC	NC	NA	NC	NC	NA	NA	NC
Public Water Supply												
Finished Water: Chloride	X	NC	X	X	X	NC	X	NC	X	X	X	NC
Finished Water: Sulfate	X	NC	X	X	X	NC	X	NC	X	X	X	NC
Finished Water: TDS	X	NC	X	X	X	NC	X	NC	X	X	X	NC
Surface Water: Chloride	X	NC	X	X	X	NC	X	NC	X	X	X	NC
Surface Water: Sulfate	X	NC	X	X	X	NC	X	NC	X	X	X	NC
Surface Water: TDS	X	NC	X	X	X	NC	X	NC	X	X	X	NC

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	South Fork San Gabriel River 1250	North Fork San Gabriel River 1251	Lake Limestone 1252	Navasota River Below Lake Mexia 1253	Aquilla Reservoir 1254	Upper North Bosque River 1255	Goose Branch 1255A	North Fork Upper North Bosque River 1255B	Scarborough Creek 1255C	South Fork North Bosque River 1255D	Unnamed tributary of Goose Branch 1255E	Unnamed tributary of Scarborough Creek 1255F
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NA	**C**	NC	**C**	**C**	**C**	**C**	**C**	**C**	NC
Nitrite + Nitrate Nitrogen	NC	NC	**C**	NC	**C**	**C**	**C**	NC	NC	NC	NC	NC
Orthophosphorus	NC	NC	NC	NC	NC	**C**	**C**	**C**	**C**	NC	**C**	NC
Total Phosphorus	NC	NC	NA	NC	NC	**C**	**C**	NC	**C**	NC	**C**	NC
Algal Growth												
Chlorophyll *a*	NC	NC	NA	**C**	NC	**C**	NA	**C**	NA	**C**	NA	NA
Public Water Supply												
Finished Water: Chloride	NC	NC	NC	NC	NC	X	X	X	X	X	X	X
Finished Water: Sulfate	NC	NC	NC	NC	NC	X	X	X	X	X	X	X
Finished Water: TDS	NC	NC	NC	NC	NC	X	X	X	X	X	X	X
Surface Water: Chloride	NC	NC	NC	NC	NC	X	X	X	X	X	X	X
Surface Water: Sulfate	NC	NC	NC	NC	NC	X	X	X	X	X	X	X
Surface Water: TDS	NC	NC	NC	NC	NC	X	X	X	X	X	X	X

Brazos River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Woodhollow Branch 1255G	Brazos River/Lake Brazos 1256	Aquilla Creek 1256A	Brazos River Below Lake Whitney 1257
WATER QUALITY CONCERNS				
Sediment Contaminants	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA
Narrative	NC	NC	NC	NC
Nutrient Enrichment				
Ammonia Nitrogen	NC	NC	NA	NA
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC
Orthophosphorus	NC	NC	NC	NC
Total Phosphorus	NC	NC	NA	NA
Algal Growth				
Chlorophyll *a*	NA	NC	NA	NA
Public Water Supply				
Finished Water: Chloride	X	NC	X	NC
Finished Water: Sulfate	X	NC	X	NC
Finished Water: TDS	X	NC	X	NC
Surface Water: Chloride	X	NC	X	NC
Surface Water: Sulfate	X	NC	X	NC
Surface Water: TDS	X	NC	X	NC

Brazos - Colorado Coastal Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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Brazos-Colorado Coastal Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	San Bernard River Tidal 1301	San Bernard River Above Tidal 1302	Caney Creek Tidal 1304	Linnville Bayou 1304A	Caney Creek Above Tidal 1305
DESIGNATED USE SUPPORT					
Contact Recreation Use	FS	**NS**	FS	FS	**NS**
Noncontact Recreation Use	X	X	X	X	X
Public Water Supply Use	X	FS	X	X	X
Aquatic Life Use					
Dissolved Oxygen grab min	FS	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	FS	NA
Organics in water	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA
Fish Consumption Use					
Advisories and Closures	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	FS	NA
GENERAL USE SUPPORT					
Water Temperature	FS	FS	FS	X	FS
pH	FS	FS	FS	X	FS
Chloride	X	FS	X	X	FS
Sulfate	X	FS	X	X	FS
Total Dissolved Solids	X	FS	X	X	FS

Brazos-Colorado Coastal Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	San Bernard River Tidal 1301	San Bernard River Above Tidal 1302	Caney Creek Tidal 1304	Linnville Bayou 1304A	Caney Creek Above Tidal 1305
WATER QUALITY CONCERNS					
Sediment Contaminants	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA
Narrative	NC	NC	**C**	NC	**C**
Nutrient Enrichment					
Ammonia Nitrogen	NC	NC	NC	**C**	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC
Orthophosphorus	NC	NC	NC	NC	NC
Total Phosphorus	NC	NC	NC	NC	NC
Algal Growth					
Chlorophyll *a*	NC	NC	NC	NC	NC
Public Water Supply					
Finished Water: Chloride	X	NC	X	X	X
Finished Water: Sulfate	X	NC	X	X	X
Finished Water: TDS	X	NC	X	X	X
Surface Water: Chloride	X	NC	X	X	X
Surface Water: Sulfate	X	NC	X	X	X
Surface Water: TDS	X	NC	X	X	X

Colorado River Basin
Summary Tables

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Basin Tabular Summaries

For each basin, there are two documents: Tabular Summary of Use Support and Tabular Summary of Water Quality Concerns

Tabular Summary of Use Support

This series of tables provides a quick, detailed reference to water quality status within a basin. The summary identifies the indicators used to assess support of designated uses. For each indicator, support codes are used to identify the level of attainment as fully supporting (FS), partial supporting (PS), not supporting (NS), not assessed (NA), and not applicable (X). Indicators that contribute to partially supporting and not supporting uses are in bold type.

Tabular Summary of Water Quality Concerns

This series of tables provides a quick, detailed reference to water quality problems within a basin. The summary identifies the indicators used to assess water quality concerns. For each indicator, the presence of a water quality problem is identified as a concern (C), no concern (NC), threatened (TH), not assessed (NA), or not applicable (X). Indicators that contribute to concerns are in bold type.

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Colorado River Basin Tabular Summary of Use Support

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Colorado River Tidal 1401	Colorado River Below La Grange 1402	Cummins Creek 1402A	Buckners Creek 1402C	Blue Creek 1402F	Fayette Reservoir 1402G	Skull Creek 1402H	Lake Austin 1403	Bull Creek 1403A	West Bull Creek 1403B	Cow Fork Bull Creek 1403C	Barrow Preserve Tributary 1403D
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	NA	NA	FS	FS	FS	FS	NA	NA	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	FS	X	X	X	FS	X	FS	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	NA	FS	NA	FS	FS	FS	NA	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	**NS**	NA	NA	NA	NA	NA	**NS**	FS	FS	NA
Fish Community	NA	NA	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	FS	X	X	X	X	X	FS	X	X	X	X
pH	FS	FS	X	X	X	X	X	FS	X	X	X	X
Chloride	X	FS	X	X	X	X	X	FS	X	X	X	X
Sulfate	X	FS	X	X	X	X	X	FS	X	X	X	X
Total Dissolved Solids	X	FS	X	X	X	X	X	FS	X	X	X	X

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Stillhouse Hollow 1403E	Unnamed Tributary to Bull Creek 1403F	Tanglewood Tributary to Bull Creek 1403G	Unnamed Tributary to Bull Creek 1403H	Unnamed Tributary to Bull Creek 1403I	Spicewood Tributary to Shoal Creek 1403J	Taylor Slough South 1403K	Unnamed Tributary to Lake Austin 1403L	Turkey Creek 1403M	Panther Hollow Creek 1403N	Cuernavaca Creek 1403O	Bee Creek 1403P
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	FS	FS	**NS**	**NS**	FS	NA	NA	NA	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	X	X	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	FS	FS	FS	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	FS	FS	NA	NA	NA	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	X	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X	X	X	X
Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Total Dissolved Solids	X	X	X	X	X	X	X	X	X	X	X	X

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Bear Creek 1403Q	Unnamed tributary to Lake Austin 1403R	Lake Travis 1404	Hamilton Creek 1404A	Cow Creek 1404B	Long Hollow Creek 1404C	Marble Falls Lake 1405	Lake Lyndon B. Johnson 1406	Sandy Creek 1406A	Inks Lake 1407	Lake Buchanan 1408	Colorado River Above Lake Buchanan 1409
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	FS	FS	NA	NA	NA	FS	FS	FS	FS	FS	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	FS	X	X	X	FS	FS	X	FS	FS	FS
Aquatic Life Use												
Dissolved Oxygen grab min	NA	NA	FS	NA	NA	NA	FS	FS	FS	**PS**	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	FS
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	FS
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	FS	X	X	X	FS	FS	X	FS	FS	FS
pH	X	X	FS	X	X	X	FS	FS	X	FS	FS	FS
Chloride	X	X	FS	X	X	X	FS	FS	X	FS	FS	FS
Sulfate	X	X	FS	X	X	X	FS	FS	X	FS	FS	FS
Total Dissolved Solids	X	X	FS	X	X	X	FS	FS	X	FS	FS	FS

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Colorado River Below O. H. Ivie Reservoir 1410	E. V. Spence Reservoir 1411	Colorado River Below Lake J. B. Thomas 1412	Lake Colorado City 1412A	Beals Creek 1412B	Deep Creek 1412C	Lake J. B. Thomas 1413	Pedernales River 1414	Cypress Creek 1414B	Live Oak Creek 1414C	Miller Creek 1414D	Llano River 1415
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	NA	NA	NA	NA	NA	NA	FS	FS	NA	NA	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	FS	X	FS	X	X	FS	FS	X	X	X	FS
Aquatic Life Use												
Dissolved Oxygen grab min	FS	NA	FS	NA	FS	FS	NA	FS	FS	NA	NA	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	NA	FS	X	X	X	NA	FS	X	X	X	FS
pH	FS	NA	FS	X	X	X	NA	FS	X	X	X	FS
Chloride	FS	NA	FS	X	X	X	NA	FS	X	X	X	FS
Sulfate	FS	NA	FS	X	X	X	NA	FS	X	X	X	FS
Total Dissolved Solids	FS	NA	FS	X	X	X	NA	FS	X	X	X	FS

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	1415A Johnson Fork Creek	1416 San Saba River	1416A Brady Creek	1417 Lower Pecan Bayou	1418 Lake Brownwood	1418A Hords Creek	1418B Jim Ned Creek	1419 Lake Coleman	1420 Pecan Bayou Above Lake Brownwood	1421 Concho River	1421A Dry Hollow Creek	1421B Kickapoo Creek
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	FS	FS	FS	NA	FS	NA	NA	FS	FS	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	FS	X	X	FS	X	X	FS	FS	FS	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	NA	FS	FS	FS	NA	FS	NA	NA	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	FS	FS	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	FS	NA	NA	NA	NA	NA	NA	NA	**NS**	NA	NA
Fish Community	NA	FS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	FS	FS	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	FS	X	FS	NA	X	X	NA	FS	FS	X	X
pH	X	FS	X	FS	NA	X	X	NA	FS	FS	X	X
Chloride	X	FS	X	FS	FS	X	X	FS	FS	FS	X	X
Sulfate	X	FS	X	FS	FS	X	X	FS	FS	FS	X	X
Total Dissolved Solids	X	FS	X	FS	FS	X	X	FS	FS	FS	X	X

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	1421C Lipan Creek	1421D Little Concho River	1422 Lake Nasworthy	1423 Twin Buttes Reservoir	1423A Spring Creek	1423B Dove Creek	1424 Middle Concho/South Concho River	1425 O. C. Fisher Lake	1425A North Concho River	1426 Colorado River Below E. V. Spence Reservoir	1426A Oak Creek Reservoir	1426B Elm Creek
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	NA	FS	NA	FS	NA	FS	NA	NA	FS	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	FS	FS	X	X	FS	FS	X	FS	FS	X
Aquatic Life Use												
Dissolved Oxygen grab min	NA	FS	FS	NA	FS	NA	FS	NA	NA	FS	NA	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	FS	NA	X	X	FS	NA	X	FS	X	X
pH	X	X	FS	NA	X	X	FS	NA	X	FS	X	X
Chloride	X	X	FS	FS	X	X	FS	**NS**	X	**NS**	X	X
Sulfate	X	X	FS	FS	X	X	FS	FS	X	FS	X	X
Total Dissolved Solids	X	X	FS	FS	X	X	FS	**NS**	X	**NS**	X	X

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Onion Creek 1427	Slaughter Creek 1427A	Williamson Creek 1427B	Bear Creek 1427C	Boggy Creek 1427D	Marble Creek 1427E	Rinard Creek 1427F	Unnamed Tributary to Slaughter Creek 1427G	Colorado River Below Town Lake 1428	Boggy Creek 1428A	Walnut Creek 1428B	Gilleland Creek 1428C
DESIGNATED USE SUPPORT												
Contact Recreation Use	FS	FS	FS	NA	NA	FS	FS	NA	FS	NA	FS	**NS**
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	FS	X	X	X	X	X	X	X	FS	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	FS	FS	FS	NA	NA	FS	FS	NA	FS	NA	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	FS	**NS**	FS	NA	NA	NA	NA	NA	NA	NA	FS	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	FS	X	X	X	X	X	X	X	FS	X	X	X
pH	FS	X	X	X	X	X	X	X	FS	X	X	X
Chloride	FS	X	X	X	X	X	X	X	FS	X	X	X
Sulfate	FS	X	X	X	X	X	X	X	FS	X	X	X
Total Dissolved Solids	FS	X	X	X	X	X	X	X	FS	X	X	X

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Little Walnut Creek 1428D	Fort Branch Creek 1428E	Tannehill Branch Creek 1428F	Wells Branch 1428G	Carson Creek 1428H	Decker Creek 1428I	Harris Branch 1428J	Town Lake 1429	Shoal Creek 1429A	Eanes Creek 1429B	Waller Creek 1429C	East Bouldin Creek 1429D
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	X	FS	X	X	X	X
Aquatic Life Use												
Dissolved Oxygen grab min	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	NA	FS	NA	NA	NA	NA	FS	NA	FS	NA	**NS**	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	FS	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	X	X	X	X	X	FS	X	X	X	X
pH	X	X	X	X	X	X	X	FS	X	X	X	X
Chloride	X	X	X	X	X	X	X	FS	X	X	X	X
Sulfate	X	X	X	X	X	X	X	FS	X	X	X	X
Total Dissolved Solids	X	X	X	X	X	X	X	FS	X	X	X	X

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	West Bouldin Creek 1429E	Blunn Creek 1429F	Harper's Branch 1429G	Johnson Creek 1429H	Barton Creek 1430	Barton Springs 1430A	Tributaries to Barton Creek 1430B	Mid Pecan Bayou 1431	Upper Pecan Bayou 1432	O. H. Ivie Reservoir 1433	Colorado River above La Grange 1434	Cedar Creek 1434B
DESIGNATED USE SUPPORT												
Contact Recreation Use	NA	NA	NA	NA	FS	FS	FS	FS	FS	NA	FS	FS
Noncontact Recreation Use	X	X	X	X	X	X	X	X	X	X	X	X
Public Water Supply Use	X	X	X	X	X	X	X	X	FS	FS	FS	X
Aquatic Life Use												
Dissolved Oxygen grab min	NA	NA	NA	NA	FS	FS	FS	FS	FS	FS	FS	FS
Dissolved Oxygen 24-hour avg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen 24-hour min	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Habitat	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos Community	FS	FS	NA	NA	FS	NA	FS	NA	NA	NA	NA	NA
Fish Community	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Consumption Use												
Advisories and Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Human Health Criteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT												
Water Temperature	X	X	X	X	FS	X	X	FS	FS	FS	FS	X
pH	X	X	X	X	FS	X	X	FS	FS	NA	FS	X
Chloride	X	X	X	X	FS	X	X	FS	FS	NA	FS	X
Sulfate	X	X	X	X	FS	X	X	FS	FS	NA	FS	X
Total Dissolved Solids	X	X	X	X	FS	X	X	FS	FS	NA	NA	X

Colorado River Basin Tabular Summary of Use Support (continued)

Key to support codes FS = fully supporting PS = partially supporting NS = not supporting NA = not assessed X = not applicable	Lake Bastrop 1434C
DESIGNATED USE SUPPORT	
Contact Recreation Use	FS
Noncontact Recreation Use	X
Public Water Supply Use	X
Aquatic Life Use	
Dissolved Oxygen grab min	FS
Dissolved Oxygen 24-hour avg	NA
Dissolved Oxygen 24-hour min	NA
Metals in water	NA
Organics in water	NA
Water Toxicity tests	NA
Sediment Toxicity tests	NA
Habitat	NA
Macrobenthos Community	NA
Fish Community	NA
Fish Consumption Use	
Advisories and Closures	NA
Human Health Criteria	NA
GENERAL USE SUPPORT	
Water Temperature	X
pH	X
Chloride	X
Sulfate	X
Total Dissolved Solids	X

Colorado River Basin Tabular Summary of Water Quality Concerns

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Colorado River Tidal 1401	Colorado River Below La Grange 1402	Cummins Creek 1402A	Buckners Creek 1402C	Blue Creek 1402F	Fayette Reservoir 1402G	Skull Creek 1402H	Lake Austin 1403	Bull Creek 1403A	West Bull Creek 1403B	Cow Fork Bull Creek 1403C	Barrow Preserve Tributary 1403D
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NC	NA	NC	NA	NC	NC	NC	NA	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NA	NC	NA	NC	NC	NC	NA	**C**
Orthophosphorus	NC	NC	NC	NC	NA	NC	NA	NC	NC	NC	NA	NC
Total Phosphorus	NC	NC	NC	NC	NA	NC	NA	NC	NC	NC	NA	NC
Algal Growth												
Chlorophyll *a*	NC	NC	NC	**C**	NA	**C**	NA	NC	NC	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	NC	X	X	X	NC	X	NC	X	X	X	X
Finished Water: Sulfate	X	NC	X	X	X	NC	X	NC	X	X	X	X
Finished Water: TDS	X	NC	X	X	X	NC	X	NC	X	X	X	X
Surface Water: Chloride	X	NC	X	X	X	NC	X	NC	X	X	X	X
Surface Water: Sulfate	X	NC	X	X	X	NC	X	NC	X	X	X	X
Surface Water: TDS	X	NC	X	X	X	NC	X	NC	X	X	X	X

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Stillhouse Hollow 1403E	Unnamed Tributary to Bull Creek 1403F	Tanglewood Tributary to Bull Creek 1403G	Unnamed Tributary to Bull Creek 1403H	Unnamed Tributary to Bull Creek 1403I	Spicewood Tributary to Shoal Creek 1403J	Taylor Slough South 1403K	Unnamed Tributary to Lake Austin 1403L	Turkey Creek 1403M	Panther Hollow Creek 1403N	Cuernavaca Creek 1403O	Bee Creek 1403P
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NA	NA	NA	NC
Nitrite + Nitrate Nitrogen	**C**	NC	NC	NC	NC	**C**	**C**	NC	NA	NA	NA	NC
Orthophosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NA	NA	NA	NC
Total Phosphorus	NC	NC	NC	NC	NC	NC	NA	NA	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Finished Water: Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Finished Water: TDS	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: Chloride	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: Sulfate	X	X	X	X	X	X	X	X	X	X	X	X
Surface Water: TDS	X	X	X	X	X	X	X	X	X	X	X	X

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Bear Creek 1403Q	Unnamed tributary to Lake Austin 1403R	Lake Travis 1404	Hamilton Creek 1404A	Cow Creek 1404B	Long Hollow Creek **1404C**	Marble Falls Lake 1405	Lake Lyndon B. Johnson 1406	Sandy Creek 1406A	Inks Lake 1407	Lake Buchanan 1408	Colorado River Above Lake Buchanan 1409
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NC	NC	NA	NA	NA	NC	NC	NC	**C**	NC	NC
Nitrite + Nitrate Nitrogen	NA	NC	NC	NA	NA	NA	NC	NC	NC	NC	NC	NC
Orthophosphorus	NA	NC	NC	NA	NA	NA	NC	NC	NC	NC	NC	NC
Total Phosphorus	NA	NA	NC	NA	NA	NA	NC	NC	NC	NC	NC	NC
Algal Growth												
Chlorophyll *a*	NA	NA	NC	NA	NA	NA	NC	NC	NC	NC	**C**	NC
Public Water Supply												
Finished Water: Chloride	X	X	NC	X	X	X	NC	NC	X	NC	NC	NC
Finished Water: Sulfate	X	X	NC	X	X	X	NC	NC	X	NC	NC	NC
Finished Water: TDS	X	X	NC	X	X	X	NC	NC	X	NC	NC	NC
Surface Water: Chloride	X	X	NC	X	X	X	NC	NC	X	NC	NC	NC
Surface Water: Sulfate	X	X	NC	X	X	X	NC	NC	X	NC	NC	NC
Surface Water: TDS	X	X	NC	X	X	X	NC	NC	X	NC	NC	NC

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Colorado River Below O. H. Ivie Reservoir 1410	E. V. Spence Reservoir 1411	Colorado River Below Lake J. B. Thomas 1412	Lake Colorado City 1412A	Beals Creek 1412B	Deep Creek **1412C**	Lake J. B. Thomas 1413	Pedernales River 1414	Cypress Creek 1414B	Live Oak Creek **1414C**	Miller Creek 1414D	Llano River 1415
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NA	NC	NA	NA	NA	NA	NC	NC	NA	NA	NC
Nitrite + Nitrate Nitrogen	NC	NA	NC	NA	**C**	NA	NA	NC	NC	NA	NA	NC
Orthophosphorus	NC	NA	NC	NA	NA	NA	NA	NC	NC	NA	NA	NC
Total Phosphorus	NC	NA	NA	NA	NA	NA	NA	NC	NC	NA	NA	NC
Algal Growth												
Chlorophyll *a*	NC	NA	NA	NA	NA	NA	NA	NC	NA	NA	NA	NC
Public Water Supply												
Finished Water: Chloride	NC	NA	X	NC	X	X	NC	NC	X	X	X	NC
Finished Water: Sulfate	NC	NA	X	**C**	X	X	NC	NC	X	X	X	NC
Finished Water: TDS	NC	NA	X	**C**	X	X	NC	NC	X	X	X	NC
Surface Water: Chloride	**C**	**C**	X	NA	X	X	NA	NC	X	X	X	NC
Surface Water: Sulfate	NC	**C**	X	NA	X	X	NA	NC	X	X	X	NC
Surface Water: TDS	NC	**C**	X	NA	X	X	NA	NC	X	X	X	NC

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1415A Johnson Fork Creek	1416 San Saba River	1416A Brady Creek	1417 Lower Pecan Bayou	1418 Lake Brownwood	1418A Hords Creek	1418B Jim Ned Creek	1419 Lake Coleman	1420 Pecan Bayou Above Lake Brownwood	1421 Concho River	1421A Dry Hollow Creek	1421B Kickapoo Creek
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NC	NC	NC	NA	NC	NA	NC	NC	**C**	NA	NA
Nitrite + Nitrate Nitrogen	NA	NC	**C**	**C**	NA	NC	NA	NC	NC	**C**	**C**	**C**
Orthophosphorus	NA	NC	**C**	NC	NA	NC	NA	NC	NC	NC	NA	NA
Total Phosphorus	NA	NC	**C**	NC	NA	NC	NA	NC	NA	NC	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NC	**C**	**C**	NA	**C**	NA	NC	NA	**C**	NA	NA
Public Water Supply												
Finished Water: Chloride	X	NC	X	X	NC	X	X	NC	NC	**C**	X	X
Finished Water: Sulfate	X	NC	X	X	NC	X	X	NC	NC	**C**	X	X
Finished Water: TDS	X	NC	X	X	NC	X	X	NC	NC	**C**	X	X
Surface Water: Chloride	X	NC	X	X	NC	X	X	NC	NC	**C**	X	X
Surface Water: Sulfate	X	NC	X	X	NC	X	X	NC	NC	**C**	X	X
Surface Water: TDS	X	NC	X	X	NC	X	X	NC	NC	**C**	X	X

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	1421C Lipan Creek	1421D Little Concho River	1422 Lake Nasworthy	1423 Twin Buttes Reservoir	1423A Spring Creek	1423B Dove Creek	1424 Middle Concho/South Concho River	1425 O. C. Fisher Lake	1425A North Concho River	1426 Colorado River Below E. V. Spence Reservoir	1426A Oak Creek Reservoir	1426B Elm Creek
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NA	**C**	NA	**C**	NA	NC	**C**	NA	**C**	NA	NA
Nitrite + Nitrate Nitrogen	NA	**C**	NC	NA	NC	NA	NC	NC	NA	NC	NA	**C**
Orthophosphorus	NA	NA	NC	NA	NC	NA	NC	NC	NA	NC	NA	NA
Total Phosphorus	NA	NA	NC	NA	NA	NA	NC	NA	NA	NC	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NC	NA	NA	NA	NC	NA	NA	**C**	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	NC	NC	X	X	NC	NC	X	NC	NA	X
Finished Water: Sulfate	X	X	NC	NC	X	X	NC	NC	X	NC	**C**	X
Finished Water: TDS	X	X	NC	NC	X	X	NC	NC	X	NC	NA	X
Surface Water: Chloride	X	X	**C**	NC	X	X	NC	**C**	X	**C**	NA	X
Surface Water: Sulfate	X	X	NC	NC	X	X	NC	NC	X	**C**	NA	X
Surface Water: TDS	X	X	NC	NC	X	X	NC	NC	X	**C**	NA	X

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Onion Creek 1427	Slaughter Creek 1427A	Williamson Creek 1427B	Bear Creek 1427C	Boggy Creek 1427D	Marble Creek 1427E	Rinard Creek 1427F	Unnamed Tributary to Slaughter Creek 1427G	Colorado River Below Town Lake 1428	Boggy Creek 1428A	Walnut Creek 1428B	Gilleland Creek 1428C
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	**C**	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NC	NC	NC	NA	NA	NC	NC	NA	NC	NA	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NA	NA	NC	NC	NA	**C**	NA	**C**	**C**
Orthophosphorus	NC	NC	NC	NA	NA	NC	NC	NA	**C**	NA	NC	**C**
Total Phosphorus	NC	NC	NC	NA	NA	NC	NC	NA	NC	NA	**C**	NC
Algal Growth												
Chlorophyll *a*	NC	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA	NC
Public Water Supply												
Finished Water: Chloride	NC	X	X	X	X	X	X	X	NC	X	X	X
Finished Water: Sulfate	NC	X	X	X	X	X	X	X	NC	X	X	X
Finished Water: TDS	NC	X	X	X	X	X	X	X	NC	X	X	X
Surface Water: Chloride	NC	X	X	X	X	X	X	X	NC	X	X	X
Surface Water: Sulfate	NC	X	X	X	X	X	X	X	NC	X	X	X
Surface Water: TDS	NC	X	X	X	X	X	X	X	NC	X	X	X

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Little Walnut Creek 1428D	Fort Branch Creek 1428E	Tannehill Branch Creek 1428F	Wells Branch 1428G	Carson Creek 1428H	Decker Creek 1428I	Harris Branch 1428J	Town Lake 1429	Shoal Creek 1429A	Eanes Creek 1429B	Waller Creek 1429C	East Bouldin Creek 1429D
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**C**
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	**C**	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA	NA	NA
Nitrite + Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA	**C**	NA	NA	NA	NA
Orthophosphorus	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA	NA	NA
Total Phosphorus	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA	NA	NA
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NA	NA	NA	NA	NC	NA	NA	NA	NA
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	X	X	NC	X	X	X	X
Finished Water: Sulfate	X	X	X	X	X	X	X	NC	X	X	X	X
Finished Water: TDS	X	X	X	X	X	X	X	NC	X	X	X	X
Surface Water: Chloride	X	X	X	X	X	X	X	NC	X	X	X	X
Surface Water: Sulfate	X	X	X	X	X	X	X	NC	X	X	X	X
Surface Water: TDS	X	X	X	X	X	X	X	NC	X	X	X	X

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	West Bouldin Creek 1429E	Blunn Creek 1429F	Harper's Branch 1429G	Johnson Creek 1429H	Barton Creek 1430	Barton Springs 1430A	Tributaries to Barton Creek 1430B	Mid Pecan Bayou 1431	Upper Pecan Bayou 1432	O. H. Ivie Reservoir 1433	Colorado River above La Grange 1434	Cedar Creek 1434B
WATER QUALITY CONCERNS												
Sediment Contaminants	NA	NA	NA	NA	**C**	**C**	NA	NA	NA	NA	NA	NA
Fish Tissue Contaminants	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Nutrient Enrichment												
Ammonia Nitrogen	NA	NA	NA	NA	NC	NC	NC	NC	NC	NA	NC	NC
Nitrite + Nitrate Nitrogen	NA	NA	NA	NA	NC	NC	NC	**C**	NC	NA	**C**	NC
Orthophosphorus	NA	NA	NA	NA	NC	NC	NC	**C**	NC	NA	NC	NC
Total Phosphorus	NA	NA	NA	NA	NC	NC	NC	**C**	NC	NA	NC	NC
Algal Growth												
Chlorophyll *a*	NA	NA	NA	NA	NC	NC	NA	NC	NC	NA	NC	NC
Public Water Supply												
Finished Water: Chloride	X	X	X	X	X	X	X	X	NC	NC	NC	X
Finished Water: Sulfate	X	X	X	X	X	X	X	X	NC	NC	NC	X
Finished Water: TDS	X	X	X	X	X	X	X	X	NC	NC	NC	X
Surface Water: Chloride	X	X	X	X	X	X	X	X	NC	**C**	NC	X
Surface Water: Sulfate	X	X	X	X	X	X	X	X	NC	NC	NC	X
Surface Water: TDS	X	X	X	X	X	X	X	X	NC	**C**	NA	X

Colorado River Basin Tabular Summary of Water Quality Concerns (continued)

Key to concern codes NC = no concern C = concern TH = threatened NA = not assessed X = not applicable	Lake Bastrop 1434C
WATER QUALITY CONCERNS	
Sediment Contaminants	NA
Fish Tissue Contaminants	NA
Narrative	NC
Nutrient Enrichment	
Ammonia Nitrogen	NC
Nitrite + Nitrate Nitrogen	NC
Orthophosphorus	NC
Total Phosphorus	NC
Algal Growth	
Chlorophyll *a*	NC
Public Water Supply	
Finished Water: Chloride	X
Finished Water: Sulfate	X
Finished Water: TDS	X
Surface Water: Chloride	X
Surface Water: Sulfate	X
Surface Water: TDS	X

Appendix 5B

Lake Level Graphs and Tables

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Figure 5B-1
Lake Conroe Elevations

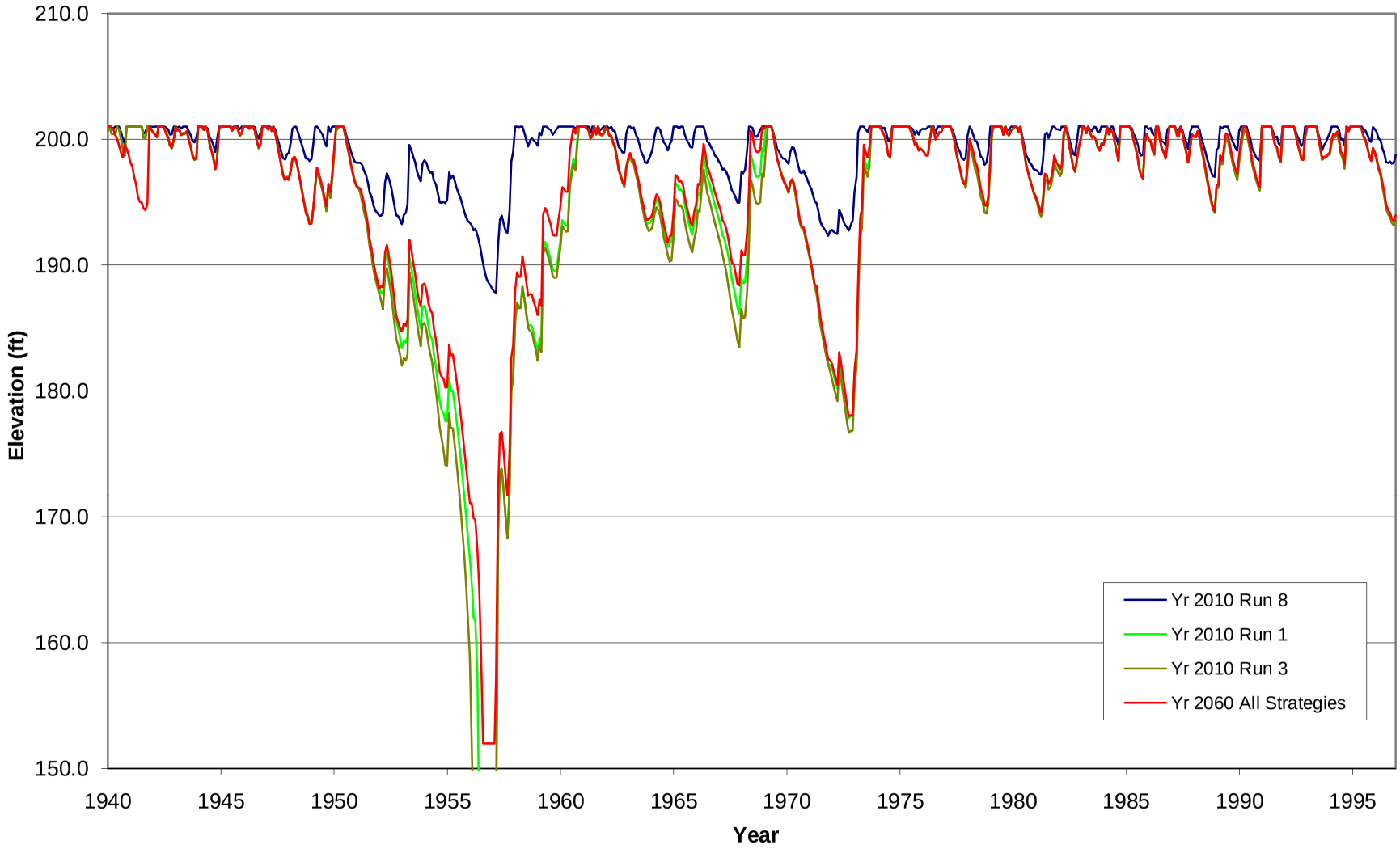

Figure 5B-2
Lake Conroe Elevation Percentiles

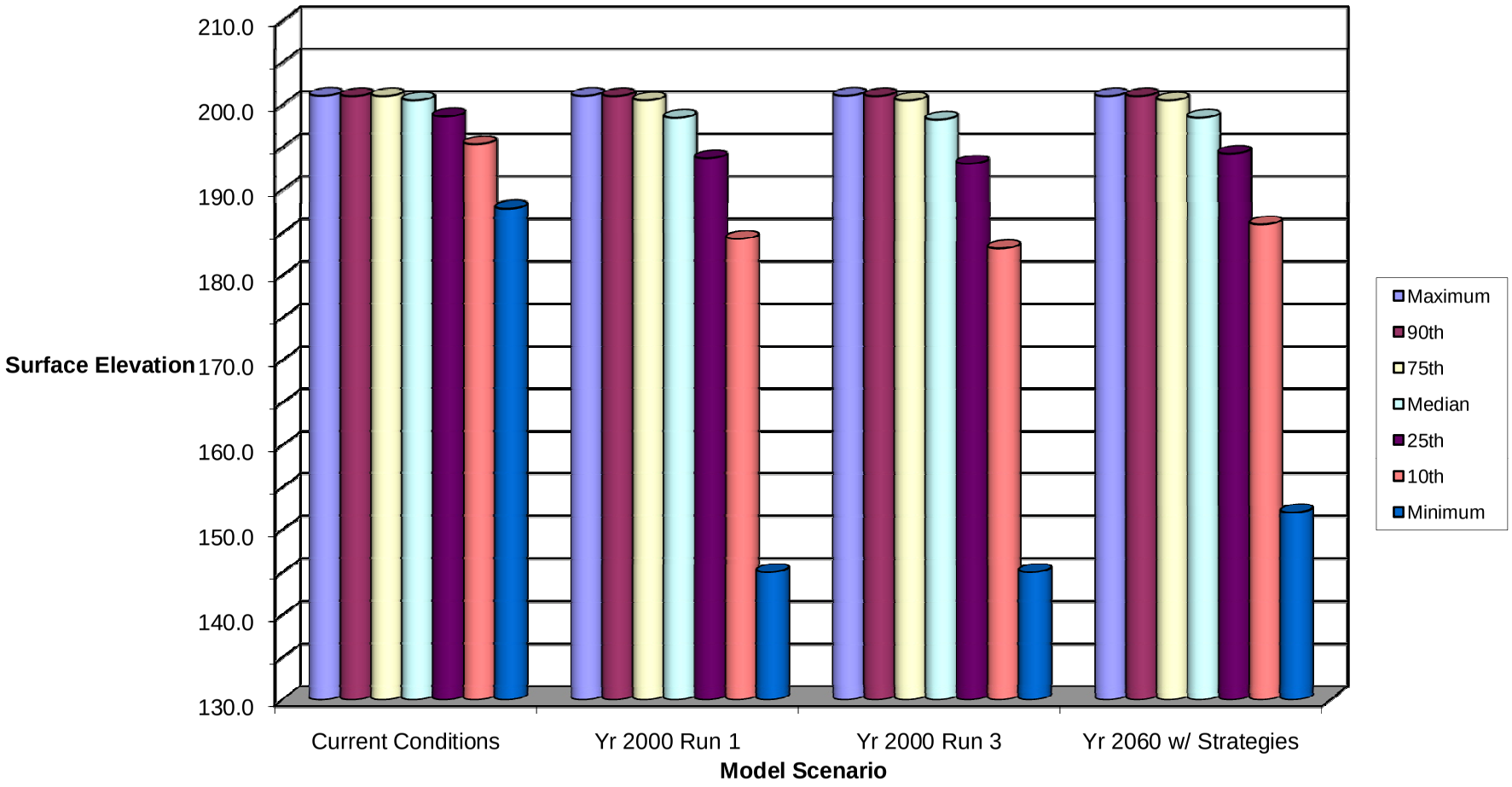

Figure 5B-3
Lake Houston Elevations

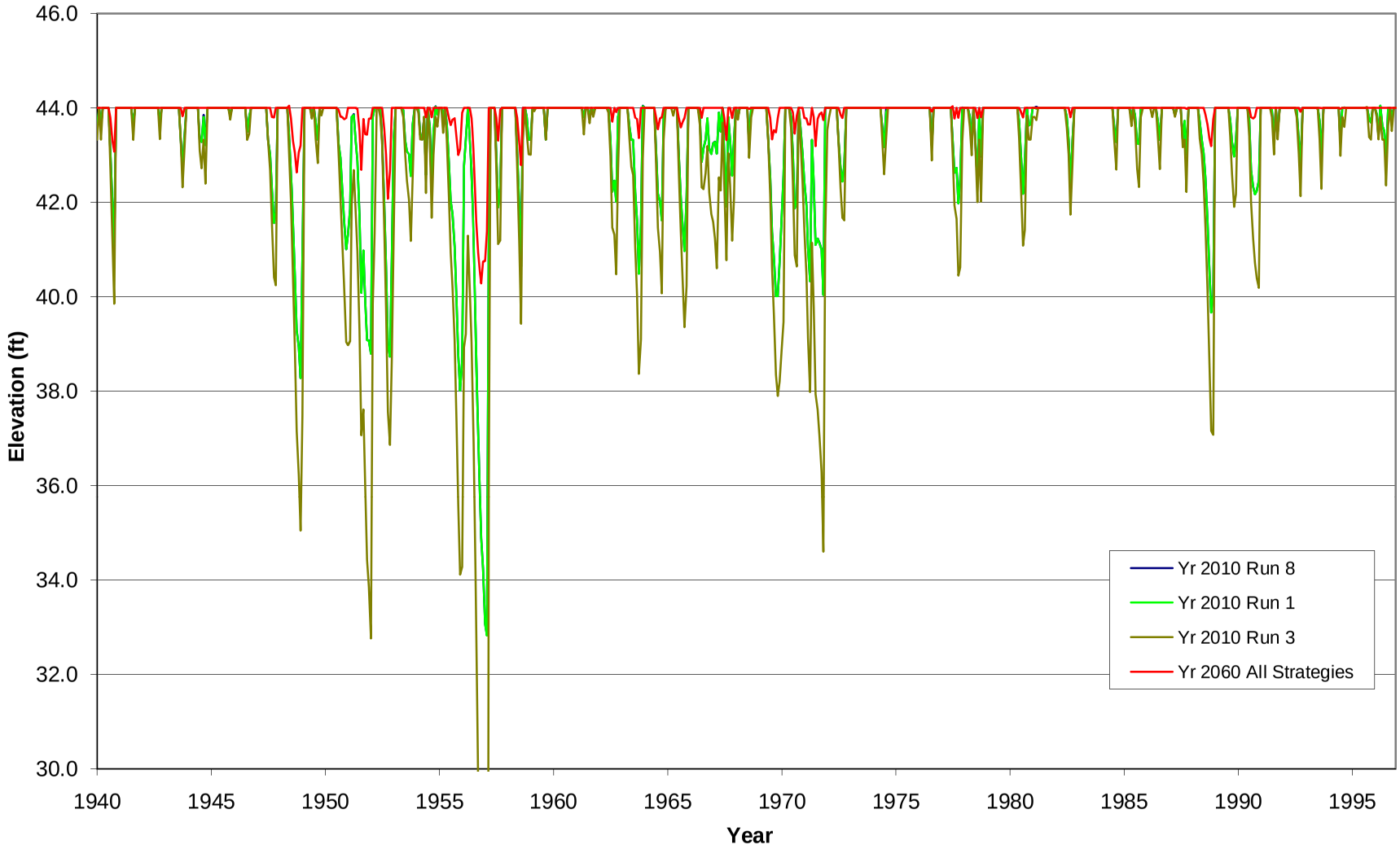

Figure 5B-4
Lake Houston Elevation Percentiles

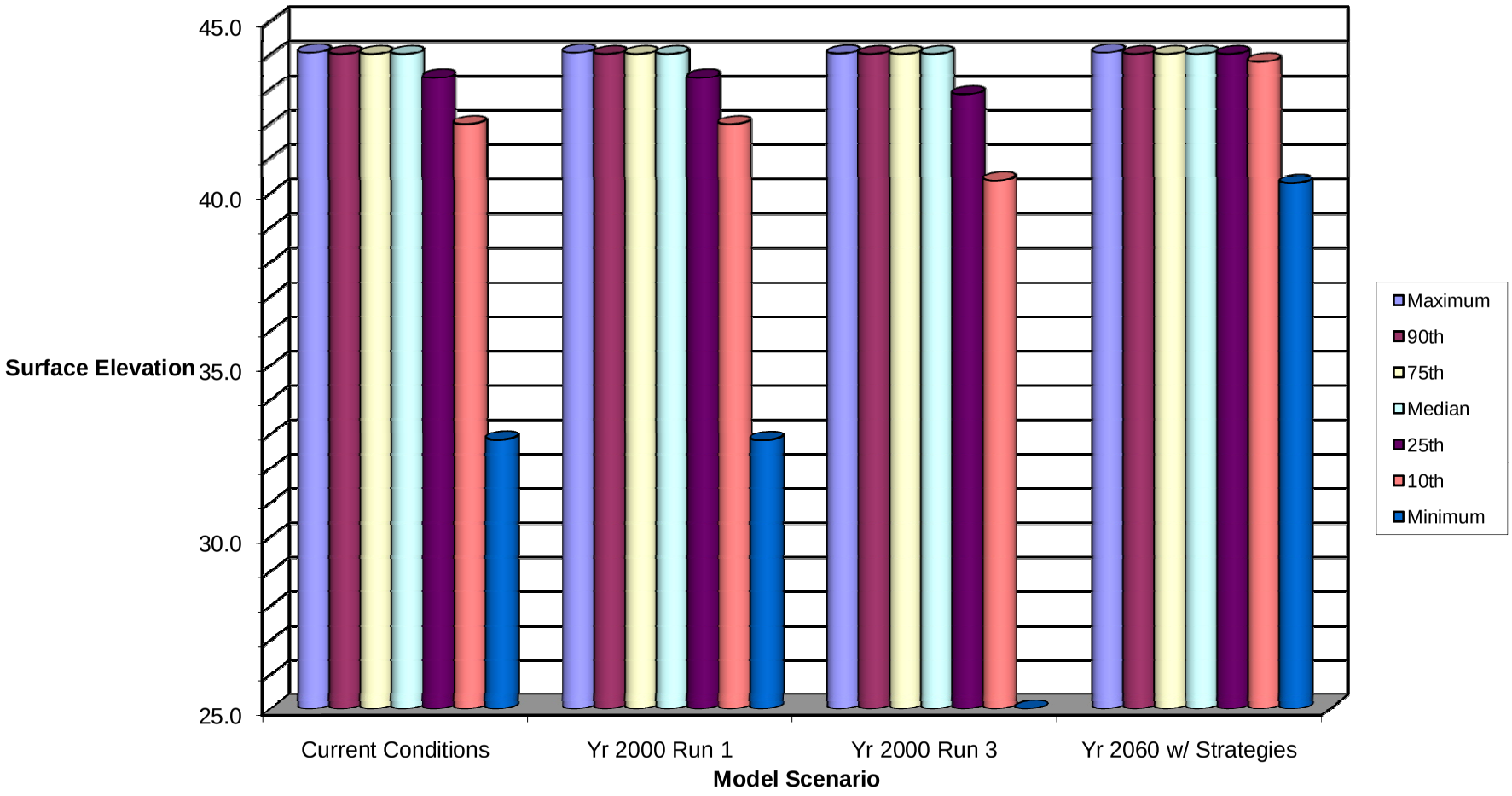

Figure 5B-5
Lake Livingston Elevations

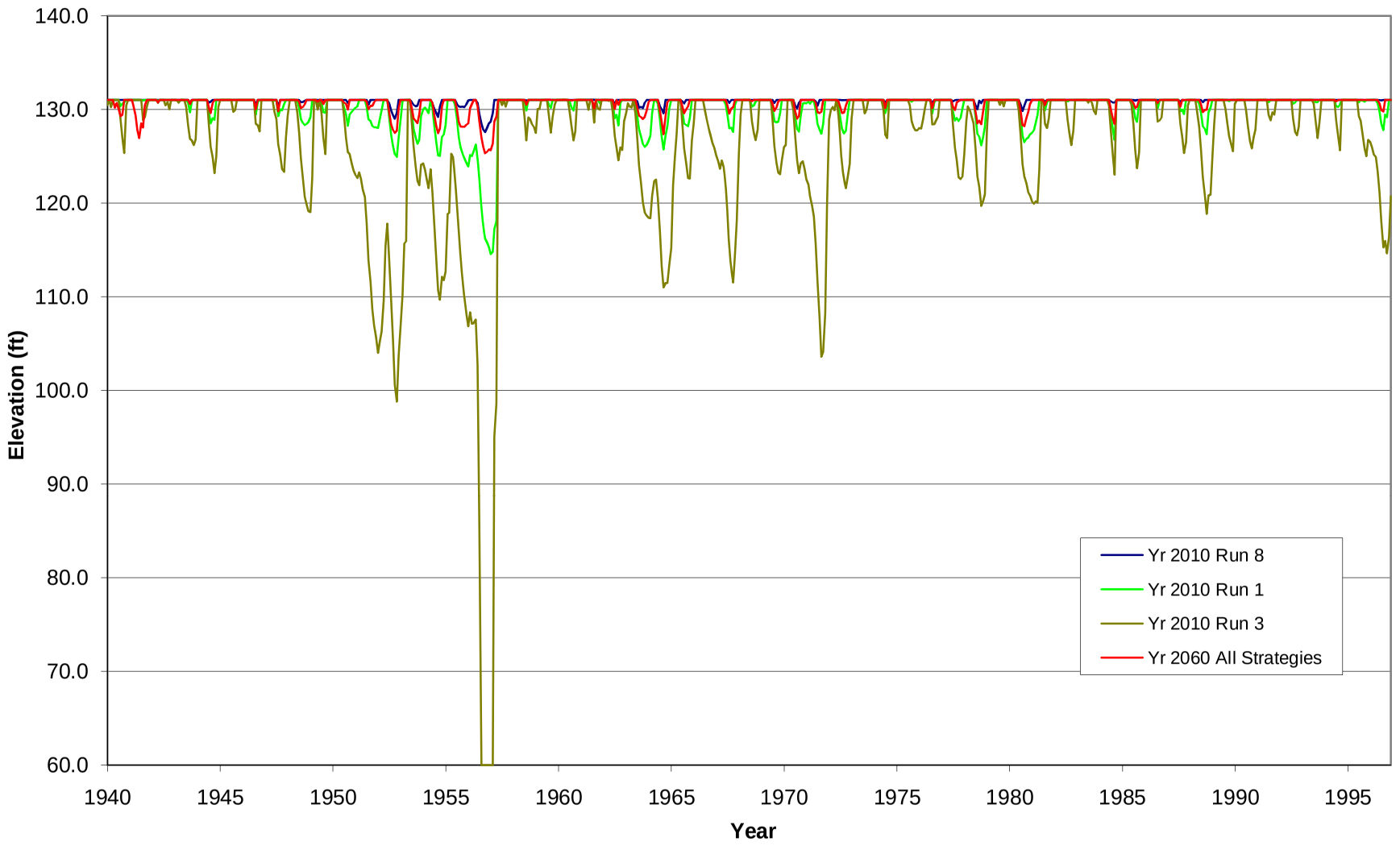

Figure 5B-6
Lake Livingston Elevation Percentiles