SABINE RIVER AUTHORITY OF TEXAS

TO: INTERESTED PARTIES

FROM: ENVIRONMENTAL SERVICES DIVISION

RE: FEBRUARY 2018 MONTHLY WATER QUALITY REPORT

The Environmental Services Field Offices conducted water quality monitoring in the Sabine Basin from February 12th through the 15th. The results of field monitoring are presented in this report and additional results can be found using the Texas Commission on Environmental Quality (TCEQ) Clean Rivers Program Data Tool: https://www80.tceq.texas.gov/SwqmisWeb/public/crpweb.faces

Sabine Basin Tidal (Including Tributaries)

Weather – Air temperatures in the tidal basin were mild with highs in the upper 40s to low 70s. Low temperatures ranged in the upper 30s to mid 50s. The tidal stations received 3.45 inches of rainfall in the seven days prior to the sampling event.
Tidal Conditions – Surface salinity values were not greater than 2 ppt at any of the six tidal stations. The highest salinity value of 2.2 ppt was recorded at station 15653 (ICW1) at a depth of 6.0 meters.

Lower Sabine Basin (Toledo Bend Reservoir and the Sabine River downstream to Tidal)

Weather – Air temperatures in the lower basin were mild with highs in the low 40s to upper 60s. Low temperatures ranged in the low 30s to mid 40s. Toledo Bend received 3.04 inches of rainfall during the seven days prior to the sampling event.
Lake Level - The level of Toledo Bend was 168.9 feet with a daily average discharge of 818 cfs on the day of sampling. Toledo Bend has a conservation pool level of 172 feet msl. Reservoir profiles indicated a mixed water column.

Upper Sabine Basin (Lake Tawakoni, Lake Fork Reservoir, and the Sabine River upstream of Toledo Bend)

Weather - Air temperatures in the upper basin were cold with highs in the mid 30s to low 60s. Low temperatures were in the low 20s to upper 40s. Lake Fork and Lake Tawakoni received 1.50 and 1.01 inches of rain during the seven days prior to the sampling event, respectively.
Lake Level - The level of Lake Tawakoni was 436.75 feet msl with a release of 6 cfs on the day of sampling. The level of Lake Fork was 401.98 feet msl with a 10 cfs release on the day of sampling. Lake Tawakoni and Lake Fork have conservation pool levels of 437.5 feet msl and 403 feet msl, respectively. Reservoir profiles at Lake Tawakoni and Lake Fork indicated a mixed water column.

This report and additional links to data for these monitoring stations are available at www.sratx.org. If you have any questions or comments concerning this report, please contact:

- Debra Malus, Environmental Services Division Manager
  409-746-3284 (dmalus@sratx.org)
- *Lower and Tidal Sabine Basin*
  Jerry Wiegreffe, Lower Basin Field Office Coordinator
  409-746-3284 (jwiegreffe@sratx.org)
- *Upper Sabine Basin*
  Terry Wilson, Upper Basin Field Office Coordinator
  903-878-2420 (twilson@sratx.org)

SABINE RIVER AUTHORITY OF TEXAS
Monthly Water Quality Report

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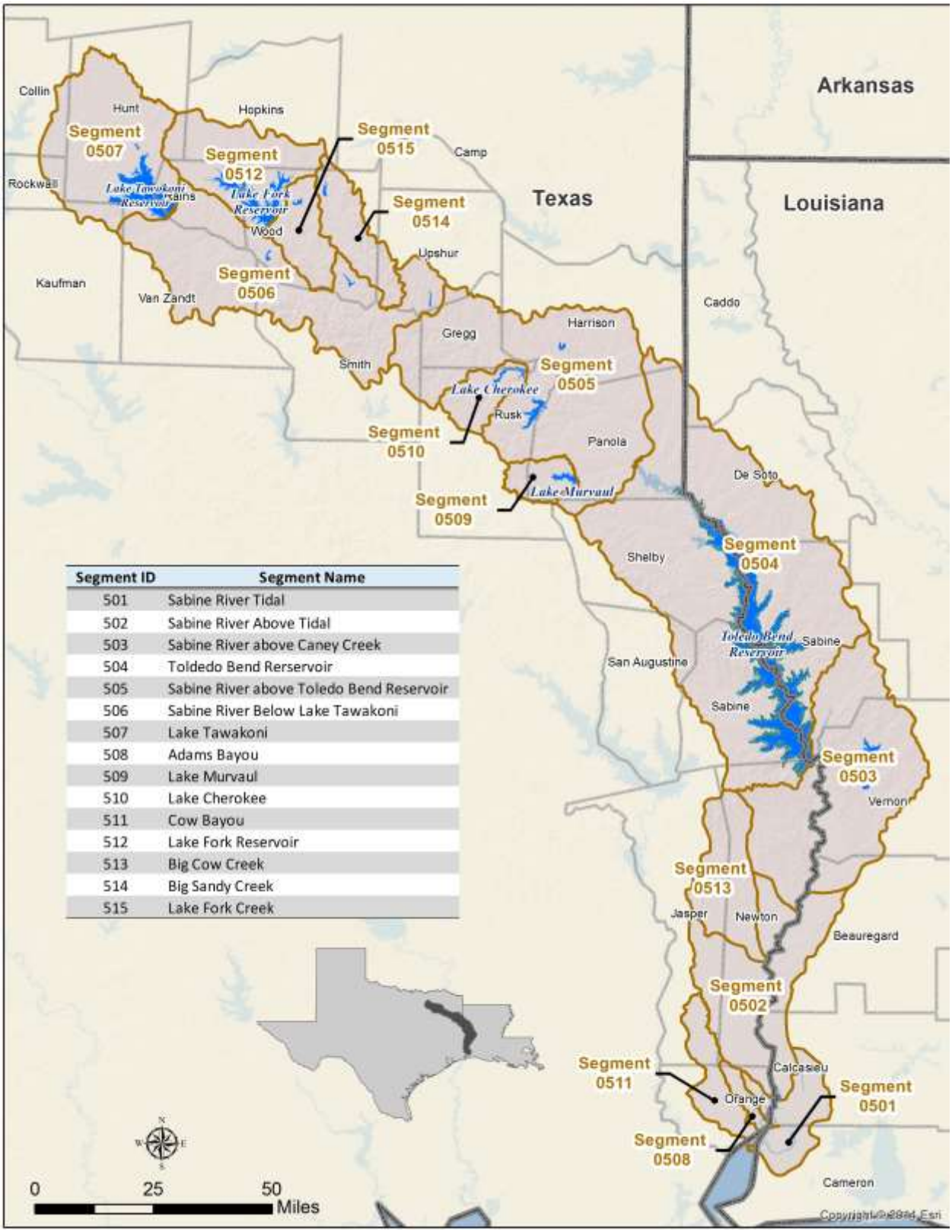
Sabine Basin Map



Segment ID	Segment Name
501	Sabine River Tidal
502	Sabine River Above Tidal
503	Sabine River above Caney Creek
504	Toldedo Bend Rerservoir
505	Sabine River above Toledo Bend Reservoir
506	Sabine River Below Lake Tawakoni
507	Lake Tawakoni
508	Adams Bayou
509	Lake Murvaul
510	Lake Cherokee
511	Cow Bayou
512	Lake Fork Reservoir
513	Big Cow Creek
514	Big Sandy Creek
515	Lake Fork Creek

Current Fixed Monitoring Stations

Segment	Station TCEQ ID (SRA-TX ID)	Location
501	10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3
501	15654 (BB1)	BLACK BAYOU IN CAMERON PARISH
511	10449 (CB1)	COW BAYOU AT ROUNDBUNCH ROAD
508	10441 (AB2)	ADAMS BAYOU AT FM 1006
501	15653 (ICW1)	INTERCOASTAL WATERWAY AT PERRY RIDGE
501	10394 (SRT2)	SABINE RIVER AT IH 10
502	10395 (SR1)	SABINE RIVER 12.00 KM UPSTREAM OF IH 10
502	10397 (SR2)	SABINE RIVER AT SH 12 NORTH OF DEWEYVILLE TX.
513	10465 (BCC1)	BIG COW CREEK AT FM 1416 SOUTH OF BON WIER
503	10398 (SR3)	SABINE RIVER AT US 190 EAST OF BON WIER TX.
503	10340 (BA4)	ANACOCO BAYOU AT LOUISIANA HWY 111 CROSSING SOUTHWEST OF KNIGHT LA
503	10399 (SR5)	SABINE RIVER AT SH 63 EAST OF BURKEVILLE TX.
503	10401 (TB6S)	SABINE RIVER BELOW TOLEDO BEND RESERVOIR AT RIGHT ABUTMENT OF SPILLWAY FOR DAM
503	15660 (BT1)	BAYOU TORO AT LA SH 392 IN SABINE PARISH SW OF HORNBECK LA
504	10404 (TB6A)	TOLEDO BEND RESERVOIR MAIN LAKE ABOVE THE DAM AT THE OLD RIVER CHANNEL
504	10406 (TB6C)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE 0.8KM EAST OF SH 87
504	18054 (TB6Q)	TOLEDO BEND RESERVOIR IN NEGREET BAYOU
504	10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY NEAR FM 3121 BRIDGE
504	10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM
504	15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU AT LOUISIANA SH 191 IN SABINE PARISH LOUISIANA WEST OF MANY
504	15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH AT FM 276
504	18053 (TB6LN)	TOLEDO BEND RESERVOIR SAN MIGUEL ARM BOAT LANE
504	18052 (TB6R)	TOLEDO BEND RESERVOIR AT RAGTOWN
505	10415 (SR10)	SABINE RIVER AT FM 2517
505	13628 (SR11)	SABINE RIVER AT US 59
505	10427 (SR16)	SABINE RIVER AT SH 42
506	10428 (SR17)	SABINE RIVER AT US 271
506	10429 (SR19)	SABINE RIVER AT SH 14 S. OF HAWKINS
506	10430 (SR21)	SABINE RIVER AT US 69
514	10468 (BS1)	BIG SANDY CREEK AT SH 155
515	10469 (LF20)	LAKE FORK CREEK AT US 80
512	10458 (LF2)	LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL
512	10462 (LF4)	LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM 515
512	10461 (LF3)	LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM 515
507	10434 (LT23A)	LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM
507	21173 (LT23DN)	LAKE TAWAKONI IN WACO BAY EQUIDISTANT FROM FINGER AND SPRING POINTS 1.17KM BEARING 18.61 DEGREES FROM IRON BRIDGE PUMPING STATION.
507	10437 (LT23B)	LAKE TAWAKONI AT SH 276

Segment 0501 – Sabine River Tidal

Description: The designated segment includes the Sabine River from the confluence with Sabine Lake in Orange County to West Bluff in Orange County. Although some areas are quite rural, this part of the Sabine Basin has two cities with populations greater than 5,000 and a variety of industries.

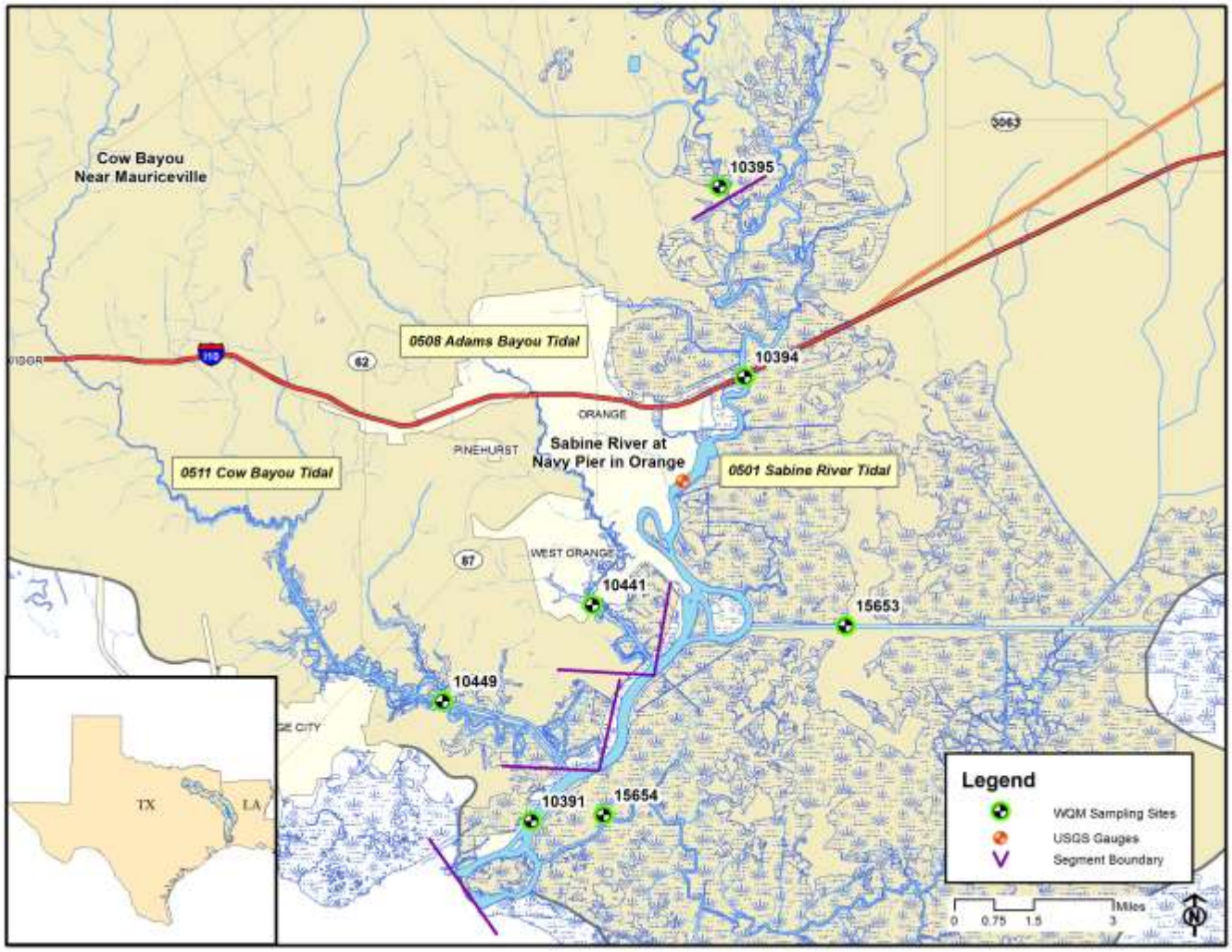
> **Segment 0508** – Adams Bayou Tidal. The segment reaches from the confluence with the Sabine River in Orange County to a point 1.1 kilometers (0.7 miles) upstream of IH-10 in Orange County.
>
> **Segment 0511** – Cow Bayou Tidal. The segment reaches from the confluence with the Sabine River in Orange County to a point 4.8 kilometers (3.0 miles) upstream of IH-10 in Orange County.

Sampling Conditions: The tidal stations received 3.45 inches of rainfall in the seven days prior to the sampling event. Surface salinity values were not greater than 2 ppt at any of the six tidal stations. The highest salinity value of 2.2 ppt was recorded at station 15653 (ICW1) at a depth of 6.0 meters.

Segment 0501 Water Quality

Date and Time	*Station*	*Depth*	*Temp*	*pH*	*DO*	*% Sat*	*Cond*	*TDS*	*Salinity*	*Secchi*	*Turbidity*	*Enterococcus*
		meters	*°C*	*SU*	*mg/L*		*µS/cm*	*mg/L*	*ppt*	*meters*	*NTU*	mpn/ 100mL
2/15/18 10:20	10391(SRT1)	0.3	13.3	6.4	8.4	81	502	320	0.2	0.28	65.8	303
2/15/18 10:05	15654(BB1)	0.3	15.0	7.0	7.8	78	2,703	1,728	1.5	0.37	27.5	403
		1.5	15.0	7.0	7.7	77	2,719	2,719	1.5			
		3.0	14.9	6.9	7.8	78	2,724	2,724	1.5			
Segment 0511												
2/15/18 09:35	10449(CB1)	0.3	13.6	6.3	7.7	73	105	67	<0.1	0.13	72.9	2,092
		1.5	13.5	6.1	7.6	73	106	67	<0.1			
		3.0	13.4	5.9	7.7	74	97	67	<0.1			
Segment 0508												
2/15/18 10:34	10441(AB2)	0.3	15.0	6.8	6.9	69	196	126	0.1	0.20	82.7	821
		1.5	14.3	6.7	6.9	68	191	122	0.1			
		3.0	13.2	6.6	7.2	69	170	109	0.1			
2/15/18 10:53	15653(ICW1)	0.3	13.9	7.0	8.3	81	1,860	1,152	1.0	0.35	33.5	129
		2.5	13.7	6.9	8.3	81	2,819	1,915	1.5			
		6.0	13.6	6.9	8.3	81	3,942	2,521	2.2			
2/15/18 11:25	10394(SRT2)	0.3	14.1	6.1	8.5	82	57	36	<0.1	0.20	79.6	498
		3.0	13.9	6.1	8.5	82	57	36	<0.1			
		6.0	13.9	6.0	8.4	82	57	37	<0.1			
		8.0	13.9	6.0	8.4	81	57	37	<0.1			

Segments 0501, 0508 & 0511



Segment 0502 - Sabine River Above Tidal

Description: The designated segment includes the Sabine River from West Bluff in Orange County to the confluence with Caney Creek in Newton County. The largest tributary is Big Cow Creek (Segment 0513). This is largely a rural area with no major industries or cities.

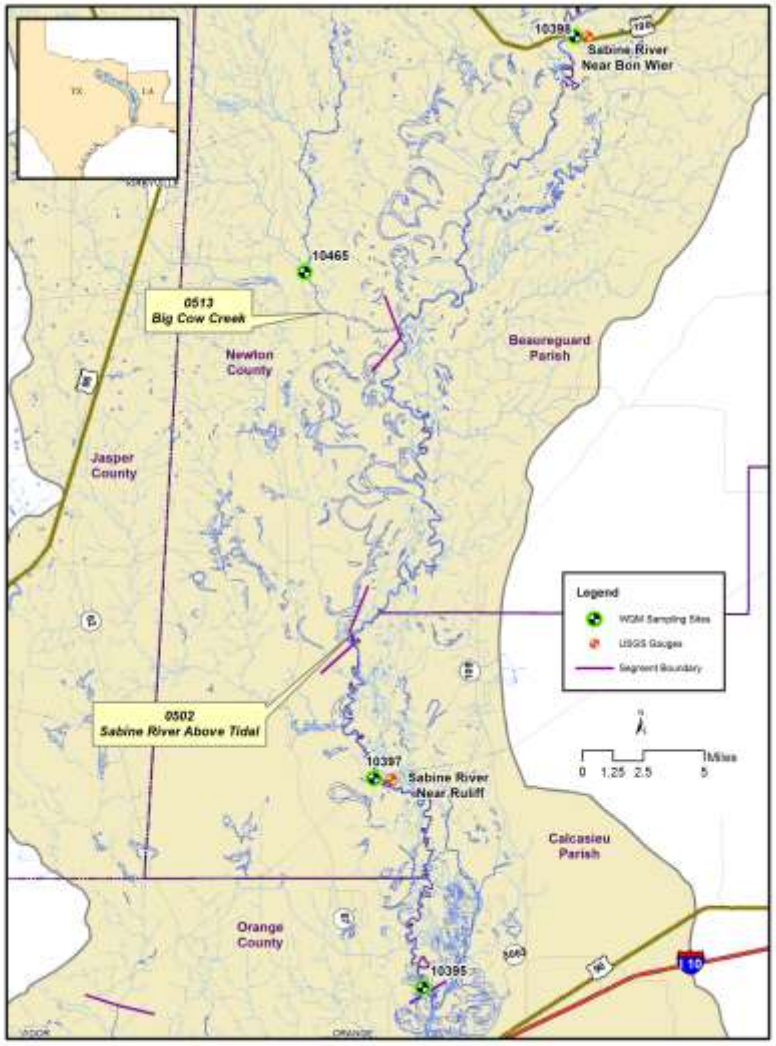
> **Segment 0513** – Big Cow Creek from the confluence with the Sabine River in Newton County to a point 4.6 kilometers (2.9 miles) upstream of R 255 in Newton County.

Sampling Conditions: The USGS-recorded flow at Sabine River Station SR2 (USGS #08030500, Sabine River near Ruliff, TX) was 15,200 cfs when samples were collected.

Segment 0502 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/15/18 12:00	10395(SR1)	0.3	13.9	6.1	8.4	81	62	40	0.21	72.1	816
2/14/18 09:00	10397(SR2)	0.3	11.8	5.5	9.0	83	43	28	0.31	79.7	722
Segment 0513											
2/14/18 09:42	10465(BCC1)	0.3	11.2	5.6	9.9	89	34	22	0.30	48.0	>2,420

Segments 0502 & 0513



Segment 0503 - Sabine River Above Caney Creek

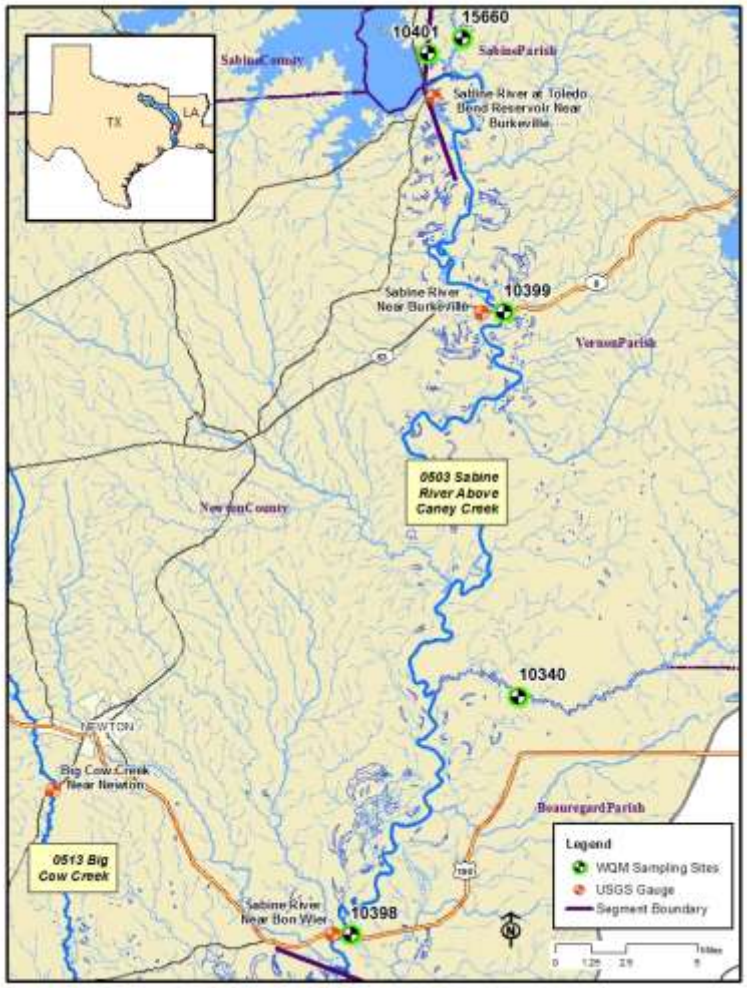
Description: The designated segment includes the Sabine River from a point immediately upstream of the confluence with Caney Creek in Newton County up to Toledo Bend Dam in Newton County. This is largely a rural area with one major city with a population greater than 5,000 and few industries. Two major tributaries that flow from Louisiana include Bayou Anacoco and Bayou Toro.

Sampling Conditions: The USGS-recorded flow at Sabine River Station SR3 (USGS #08028500 Sabine River near Bon Wier, TX) was 6,740 cfs and the USGS flow at Sabine River Station SR5 (USGS #08026000 Sabine River near Burkeville, TX) was 976 cfs when samples were collected.

Segment 0503 Water Quality

Date and Time	Station	Depth meters	Temp ˚C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/14/18 11:33	10398(SR3)	0.3	12.0	6.3	10.0	92	47	30	0.26	96.0	354
2/14/18 11:15	10340(BA4)	0.3	11.6	6.2	9.8	90	45	29	0.31	92.8	242
2/14/18 10:43	10399(SR5)	0.3	11.0	6.7	10.4	94	80	51	0.28	74.3	217
2/12/18 12:55	10401(TB6S)	0.3	9.9	7.5	12.0	106	126	80	>1.2	4.24	4
2/12/18 12:40	15660(BT1)	0.3	11.5	5.8	9.7	89	49	31	0.25	141	1,733

Segment 0503



Segment 0504 – Toledo Bend Reservoir

Description: The designated segment includes the Sabine River from Toledo Bend Dam in Newton County to a point immediately upstream of the confluence of Murvaul Creek in Panola County. Although this area is largely rural, it includes two cities with populations greater than 5,000. Murvaul Creek is a major tributary that enters upstream of the reservoir.

Sampling Conditions: Toledo Bend received 3.04 inches of rainfall during the seven days prior to the sampling event. The level of Toledo Bend was 168.9 feet with a daily average discharge of 818 cfs on the day of sampling. Toledo Bend has a conservation pool level of 172 feet msl. Reservoir profiles indicated a mixed water column.

Segment 0504 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/13/18 14:10	10404(TB6A)	0.3	9.9	7.5	10.9	96	124	80	1.5	3.12	<1
		1.0	9.9	7.4	10.9	96	124	80			
		2.0	9.9	7.3	10.9	96	124	80			
		3.0	9.9	7.3	10.9	96	124	80			
		4.0	9.9	7.3	10.9	96	125	80			
		5.0	9.7	7.2	10.9	96	125	80			
		8.0	9.6	7.2	10.8	95	125	80			
		11.0	9.6	7.1	10.7	94	125	80			
		14.0	9.6	7.1	10.7	94	125	80			
		17.0	9.6	7.1	10.7	94	125	80			
		20.0	9.6	7.1	10.7	93	124	79			
		23.0	9.6	7.1	10.7	93	124	79			
		25.0	9.6	7.1	10.7	93	124	79			
2/13/18 08:17	10406(TB6C)	0.3	11.2	6.8	8.9	81	94	59	0.24	47.8	1,120
		1.0	11.2	6.6	8.9	81	94	60			
		2.0	11.2	6.6	8.9	81	93	59			
		3.0	11.2	6.5	8.9	81	97	62			
2/13/18 13:00	18054(TB6Q)	0.3	9.9	7.5	10.7	94	128	82	1.3	4.52	3
		1.0	9.9	7.4	10.7	94	128	82			
		2.0	9.8	7.3	10.6	94	128	82			
		3.0	9.7	7.3	10.6	93	128	82			
		4.0	9.6	7.2	10.5	92	128	82			
		5.0	9.6	7.2	10.4	91	128	82			
		6.0	9.6	7.2	10.4	91	128	82			
		7.0	9.6	7.1	10.3	90	128	82			
		8.0	9.5	7.1	10.2	89	128	82			

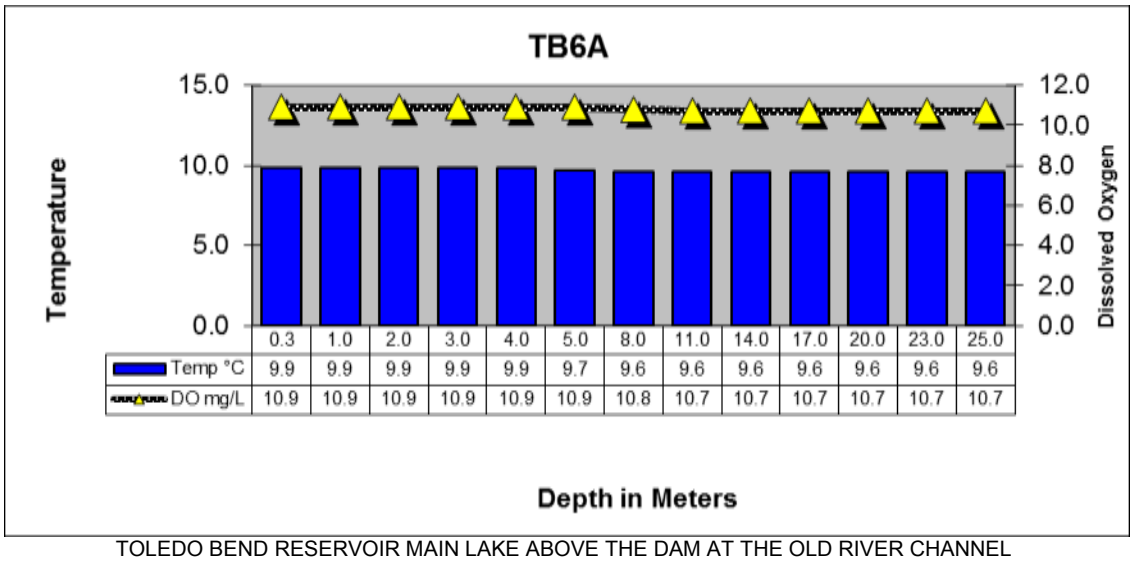
Segment 0504 Water Quality Continued

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/12/18 10:41	10411(TB6F)	0.3	10.9	7.0	9.0	82	117	75	0.13	73.3	1,986
		1.0	11.0	6.9	9.0	82	116	75			
		2.0	11.0	6.8	9.0	82	116	75			
		3.0	11.0	6.7	9.0	82	116	75			
		4.0	11.0	6.7	9.1	83	116	74			
2/13/18 10:43	10402(TB6H)	0.3	9.2	7.4	10.9	95	135	87	1.4	4.13	6
		1.0	9.2	7.4	10.9	95	135	87			
		2.0	9.2	7.3	10.9	95	135	87			
		3.0	9.2	7.3	10.9	95	135	87			
		4.0	9.2	7.3	10.9	95	135	87			
		5.0	9.2	7.2	10.8	93	136	87			
		6.0	9.1	7.2	10.6	92	136	87			
		7.0	9.1	7.2	10.6	92	136	87			
		10.0	9.0	7.1	10.6	91	136	87			
		13.0	9.0	7.1	10.6	91	137	88			
		16.0	8.9	7.1	10.6	91	137	88			
		19.0	8.8	7.1	10.8	92	137	88			
		21.0	8.8	7.1	9.3	77	138	88			
2/12/18 11:05	15659(TB6K)	0.3	10.3	7.1	9.9	88	167	107	0.33	19.3	84
		1.0	10.4	7.1	9.9	88	166	106			
		2.0	10.4	7.0	9.8	87	164	104			
		3.0	10.4	7.0	9.8	88	167	106			
		4.0	10.4	6.9	9.8	88	163	104			
		5.0	10.4	6.9	9.8	87	161	103			
		6.0	10.4	6.9	9.7	87	163	104			
		7.0	10.3	6.9	9.7	86	154	99			
		8.0	10.3	6.8	9.6	86	153	98			
2/12/18 10:13	15655(TB6J)	0.3	10.7	6.7	8.9	80	137	87	0.08	180	1,553
		1.0	10.7	6.6	8.9	80	132	85			
		2.0	10.7	6.6	8.9	80	131	84			
		3.0	10.7	6.6	8.9	80	131	84			

Segment 0504 Water Quality Continued

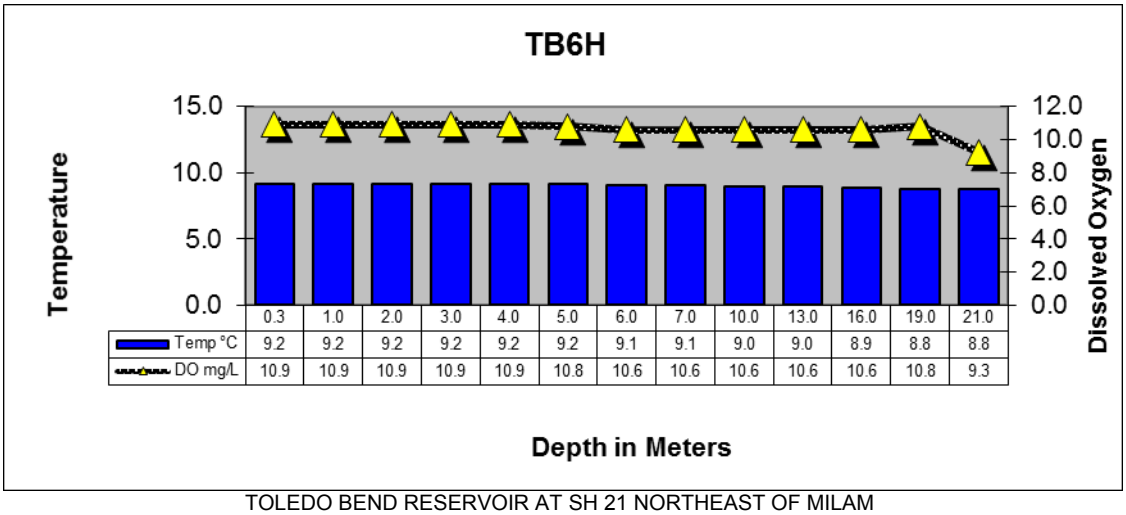
Date and Time	Station	Depth meters	Temp ˚C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/13/18 12:20	18053(TB6LN)	0.3	9.9	7.6	10.6	94	132	84	0.72	8.26	4
		1.0	9.9	7.4	10.5	93	132	84			
		2.0	9.9	7.3	10.5	92	132	84			
		3.0	9.9	7.2	10.4	92	132	84			
		4.0	9.9	7.2	10.3	91	132	84			
		5.0	9.9	7.2	10.3	91	132	84			
2/13/18 09:36	18052(TB6R)	0.3	8.7	7.5	10.8	93	175	112	1.1	6.71	1
		1.0	8.7	7.4	10.8	93	175	112			
		2.0	8.7	7.4	10.8	93	175	112			
		3.0	8.6	7.3	10.8	93	177	113			
		4.0	8.6	7.3	10.8	93	177	113			
		5.0	8.6	7.3	10.8	93	177	113			
		6.0	8.6	7.3	10.8	93	177	113			
		7.0	8.6	7.3	10.8	93	177	113			
		8.0	8.5	7.3	10.8	93	177	113			
		9.0	8.5	7.3	10.8	93	177	113			
		10.0	8.5	7.2	10.8	93	177	113			
		11.0	8.5	7.3	10.8	93	177	113			

Toledo Bend Reservoir Profiles



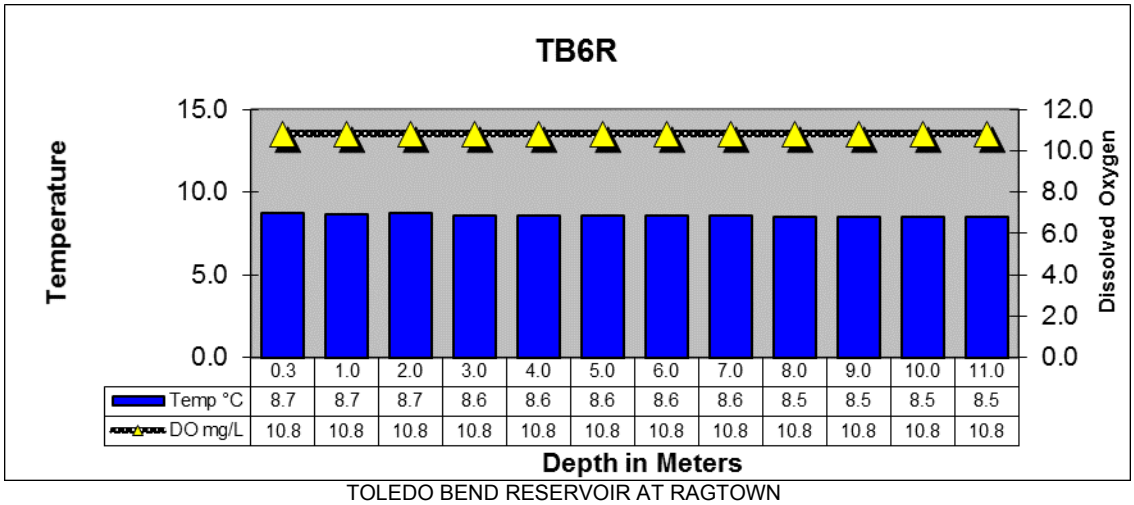
	0.3	1.0	2.0	3.0	4.0	5.0	8.0	11.0	14.0	17.0	20.0	23.0	25.0
Temp °C	9.9	9.9	9.9	9.9	9.9	9.7	9.6	9.6	9.6	9.6	9.6	9.6	9.6
DO mg/L	10.9	10.9	10.9	10.9	10.9	10.9	10.8	10.7	10.7	10.7	10.7	10.7	10.7

TOLEDO BEND RESERVOIR MAIN LAKE ABOVE THE DAM AT THE OLD RIVER CHANNEL



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	10.0	13.0	16.0	19.0	21.0
Temp °C	9.2	9.2	9.2	9.2	9.2	9.2	9.1	9.1	9.0	9.0	8.9	8.8	8.8
DO mg/L	10.9	10.9	10.9	10.9	10.9	10.8	10.6	10.6	10.6	10.6	10.6	10.8	9.3

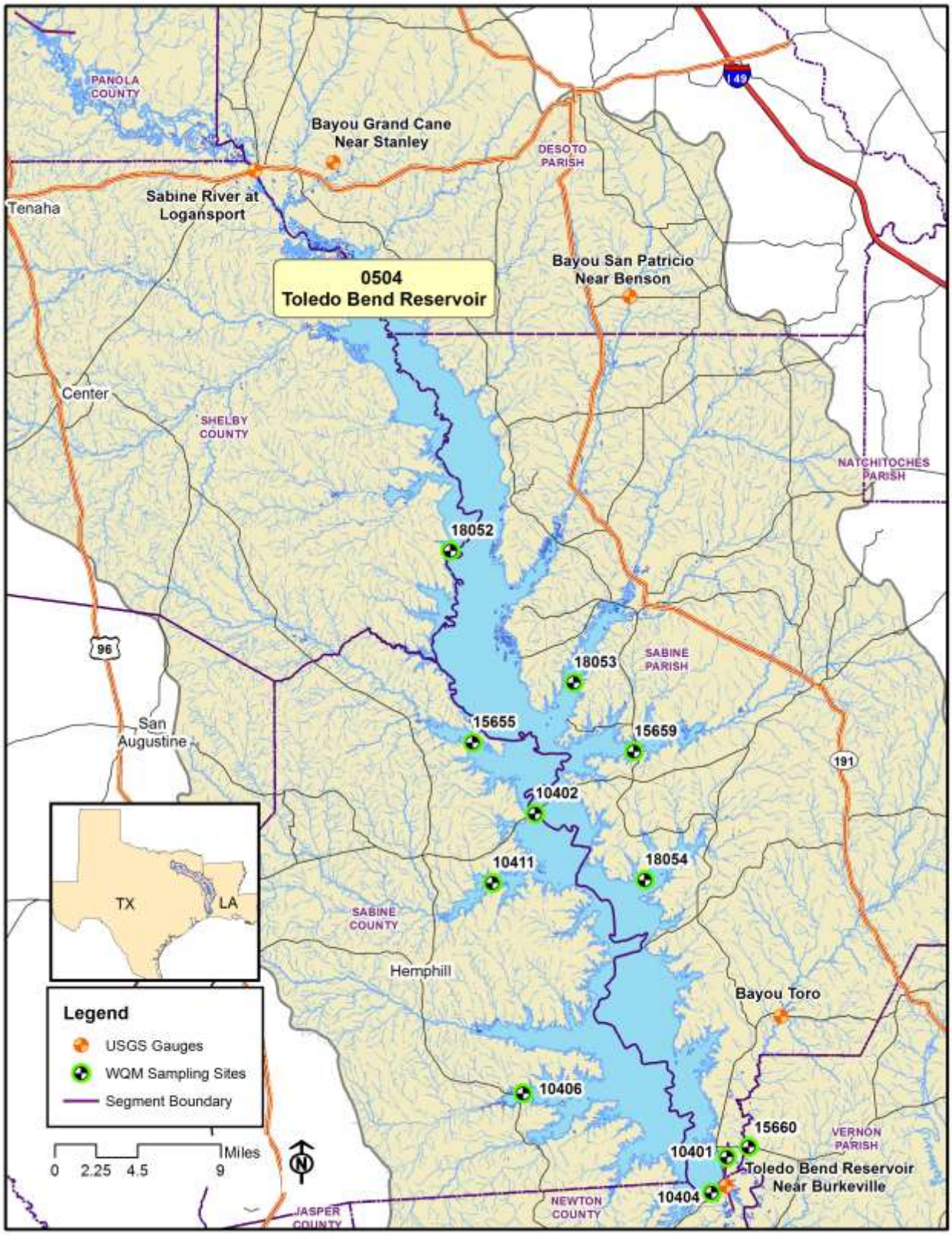
TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
Temp °C	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5
DO mg/L	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

TOLEDO BEND RESERVOIR AT RAGTOWN

Segment 0504



Segment 0505 - Sabine River Above Toledo Bend Reservoir

Description: The designated segment includes the Sabine River from a point immediately upstream of the confluence of Murvaul Creek in Panola County to a point 100 meters (110 yards) downstream of US 271 in Gregg County. Segment 0505 is used extensively for water supply and contains the highest concentration of population in the Sabine Basin with eight cities having populations greater than 5,000. Segment 0505 includes a large section of the East Texas Oilfield as well as numerous industries.

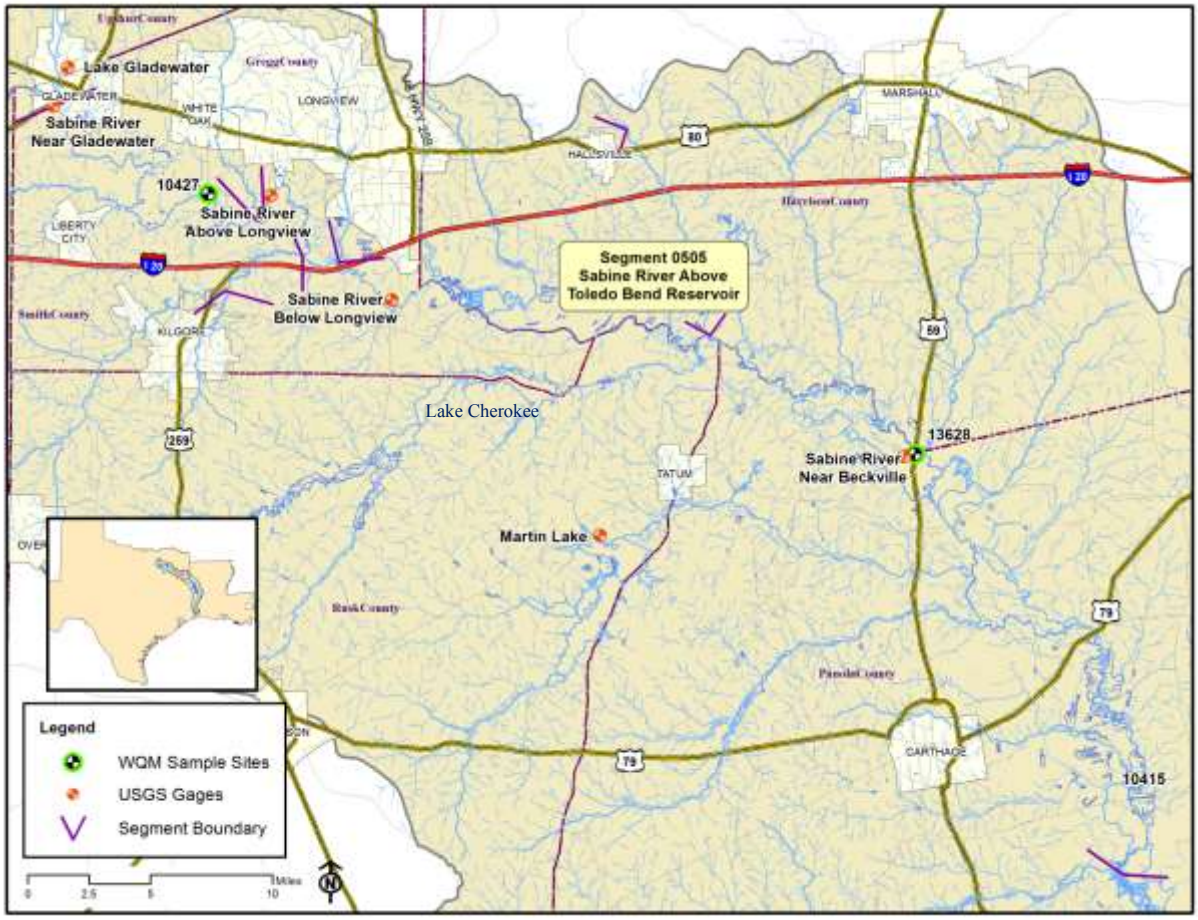
Sampling Conditions: The USGS-recorded flow at Sabine River Station SR11 (USGS #08022040 Sabine River near Beckville, TX) was 2,000 cfs when samples were collected.

Segment 0505 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/14/18 09:50	10415(SR10)	0.3	7.5	7.3	10.6	90	254	162	0.10	120	NR
2/14/18 09:15	13628(SR11)	0.3	7.6	7.3	10.6	90	242	155	0.11	98.9	144
2/14/18 08:03	10427(SR16)	0.3	6.9	7.3	10.8	90	257	165	0.12	83.4	488

NR = No Result

Segment 0505



Segment 0506 - Sabine River Below Lake Tawakoni

Description: The designated segment includes the Sabine River from a point 100 meters (110 yards) downstream of US 271 in Gregg County to Iron Bridge Dam in Rains County. This is largely a rural area with no cities having a population greater than 5,000. Oilfield activities, rural housing developments, and agriculture are in the watershed. The major tributaries include:

> **Segment 0514 - Big Sandy Creek** from the confluence with the Sabine River in Upshur County to a point 2.6 kilometers (1.6 miles) upstream of SH 11 in Hopkins County.
>
> **Segment 0515 - Lake Fork Creek** from the confluence with the Sabine River in Wood County to Lake Fork Dam in Wood County.
>
> **Segment 0512 - Lake Fork Reservoir** from Lake Fork Dam in Wood County up to the normal pool elevation of 403 feet.

Sampling Conditions: Lake Fork received 1.50 inches of rainfall during the seven days prior to sampling. The level of Lake Fork Reservoir was 401.98 feet msl with a release of 10 cfs at the time of sampling. Reservoir profiles indicated a mixed water column.

The USGS-recorded flows were 961 cfs at Sabine River Station SR17 (USGS #08020000 Sabine River near Gladewater, TX), 434 cfs at Sabine River Station SR19 (USGS #08019200 Sabine River near Hawkins, TX), and 212 cfs at Sabine River Station SR21 (USGS #08018500 Sabine River near Mineola, TX) when samples were collected. The USGS-recorded flow at Big Sandy Creek (USGS #08019500 Big Sandy Creek near Big Sandy) was 134 cfs when samples were collected.

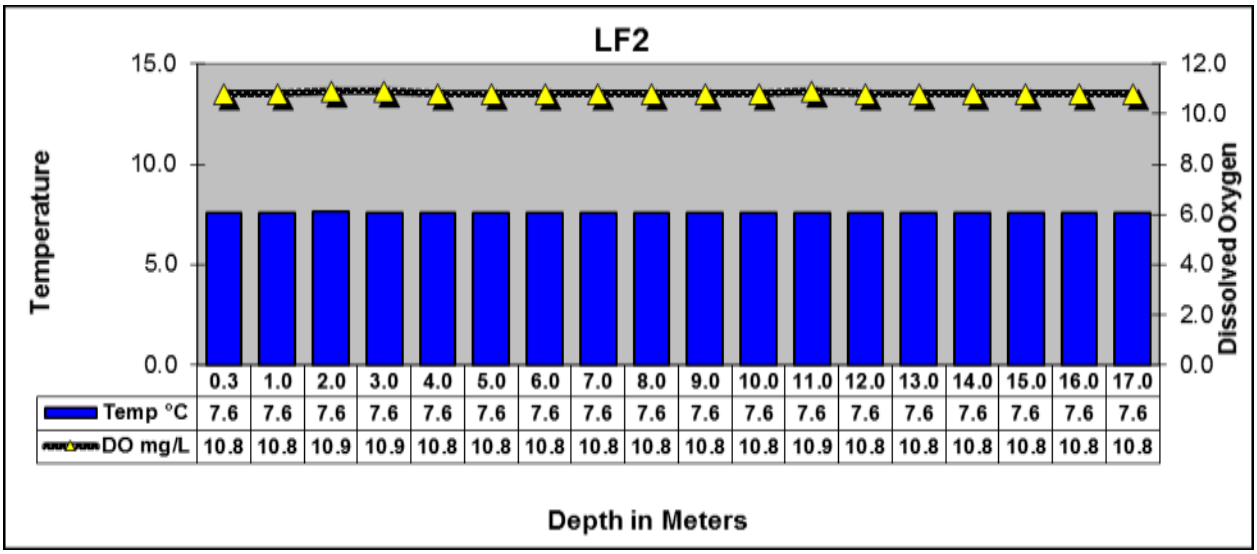
Segment 0506 Water Quality

Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/14/18 07:33	10428(SR17)	0.3	6.9	7.2	11.0	91	219	141	0.12	72.6	309
2/14/18 06:48	10429(SR19)	0.3	6.5	7.3	11.0	91	293	188	0.14	65.8	206
2/13/18 13:30	10430(SR21)	0.3	6.1	7.4	10.9	90	459	254	0.16	64.5	281
Segment 0514											
2/14/18 07:08	10468(BS1)	0.3	6.6	7.1	10.9	90	157	100	0.68	17.2	120
Segment 0515											
2/13/18 13:53	10469(LF20)	0.3	6.2	7.1	11.1	91	256	164	0.37	26.7	161
Segment 0512											
2/13/18 12:08	10458(LF2)	0.3	7.6	7.5	10.8	92	130	83	1.3	4.89	8
		1.0	7.6	7.6	10.8	92	130	83			
		2.0	7.6	7.6	10.9	92	130	83			
		3.0	7.6	7.6	10.9	92	130	83			
		4.0	7.6	7.6	10.8	92	130	83			
		5.0	7.6	7.6	10.8	92	130	83			
		6.0	7.6	7.6	10.8	92	130	83			
		7.0	7.6	7.6	10.8	92	130	83			
		8.0	7.6	7.6	10.8	92	130	83			
		9.0	7.6	7.6	10.8	92	130	83			
		10.0	7.6	7.6	10.8	92	130	83			
		11.0	7.6	7.6	10.9	92	130	83			
		12.0	7.6	7.6	10.8	92	130	83			
		13.0	7.6	7.6	10.8	92	130	83			
		14.0	7.6	7.6	10.8	92	130	83			
		15.0	7.6	7.6	10.8	92	130	83			
		16.0	7.6	7.6	10.8	91	130	83			
		17.0	7.6	7.6	10.8	91	130	83			

Segment 0506 Water Quality Continued

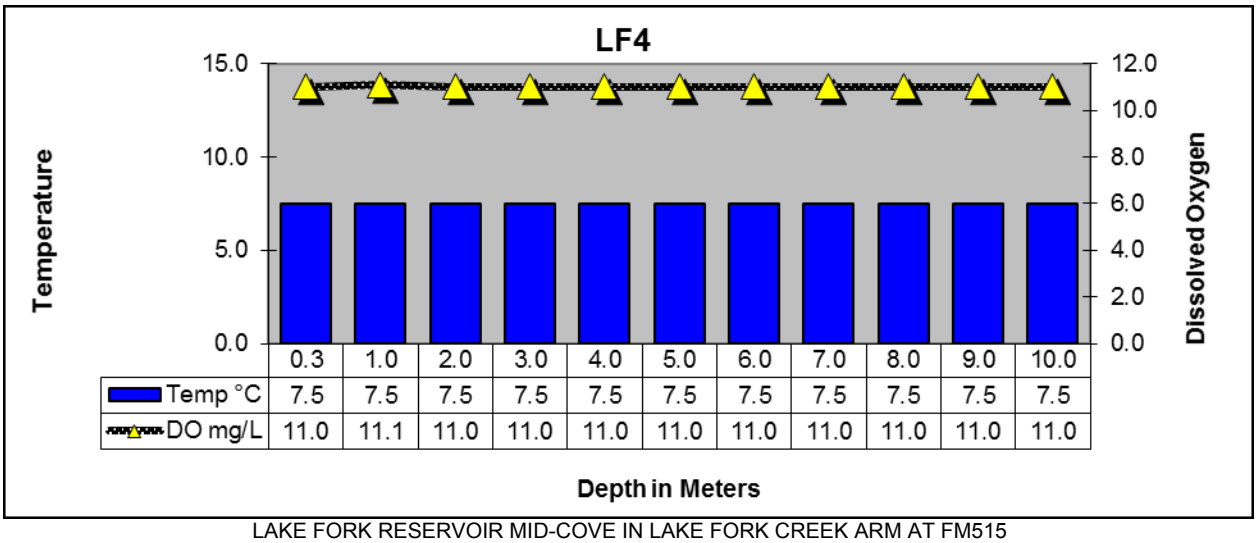
Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E. coli* mpn/100mL
2/13/18 11:12	10462(LF4)	0.3	7.5	7.2	11.0	93	130	83	0.72	8.49	< 1
		1.0	7.5	7.3	11.1	94	130	83			
		2.0	7.5	7.4	11.0	94	130	83			
		3.0	7.5	7.4	11.0	93	130	83			
		4.0	7.5	7.4	11.0	93	130	83			
		5.0	7.5	7.5	11.0	93	130	83			
		6.0	7.5	7.5	11.0	93	130	83			
		7.0	7.5	7.5	11.0	93	130	83			
		8.0	7.5	7.5	11.0	93	130	83			
		9.0	7.5	7.5	11.0	93	130	83			
		10.0	7.5	7.6	11.0	93	130	83			
2/13/18 11:32	10461(LF3)	0.3	7.3	7.3	11.0	92	130	83	0.68	10.4	1
		1.0	7.5	7.4	11.0	93	130	83			
		2.0	7.5	7.4	10.9	92	130	83			
		3.0	7.5	7.4	10.9	92	130	83			
		4.0	7.5	7.5	10.9	92	130	83			
		5.0	7.5	7.5	10.9	92	130	83			
		6.0	7.4	7.5	10.9	92	130	83			
		7.0	7.4	7.5	10.9	92	130	83			
		8.0	7.4	7.5	10.9	92	130	83			
		9.0	7.4	7.6	10.9	92	130	83			

Lake Fork Reservoir Profiles



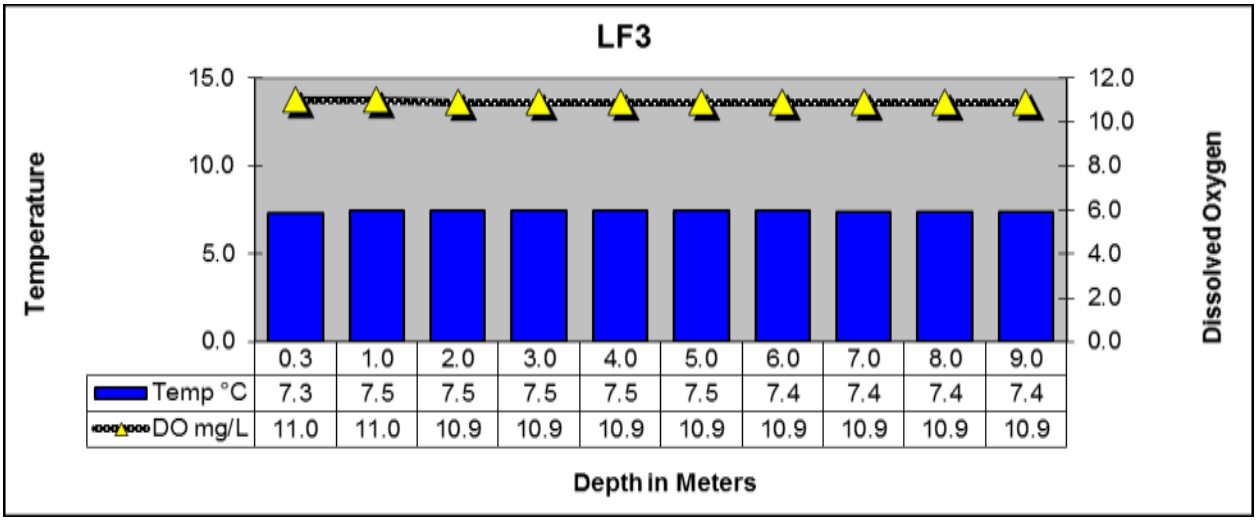
	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
Temp °C	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
DO mg/L	10.8	10.8	10.9	10.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.9	10.8	10.8	10.8	10.8	10.8	10.8

LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Temp °C	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
DO mg/L	11.0	11.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

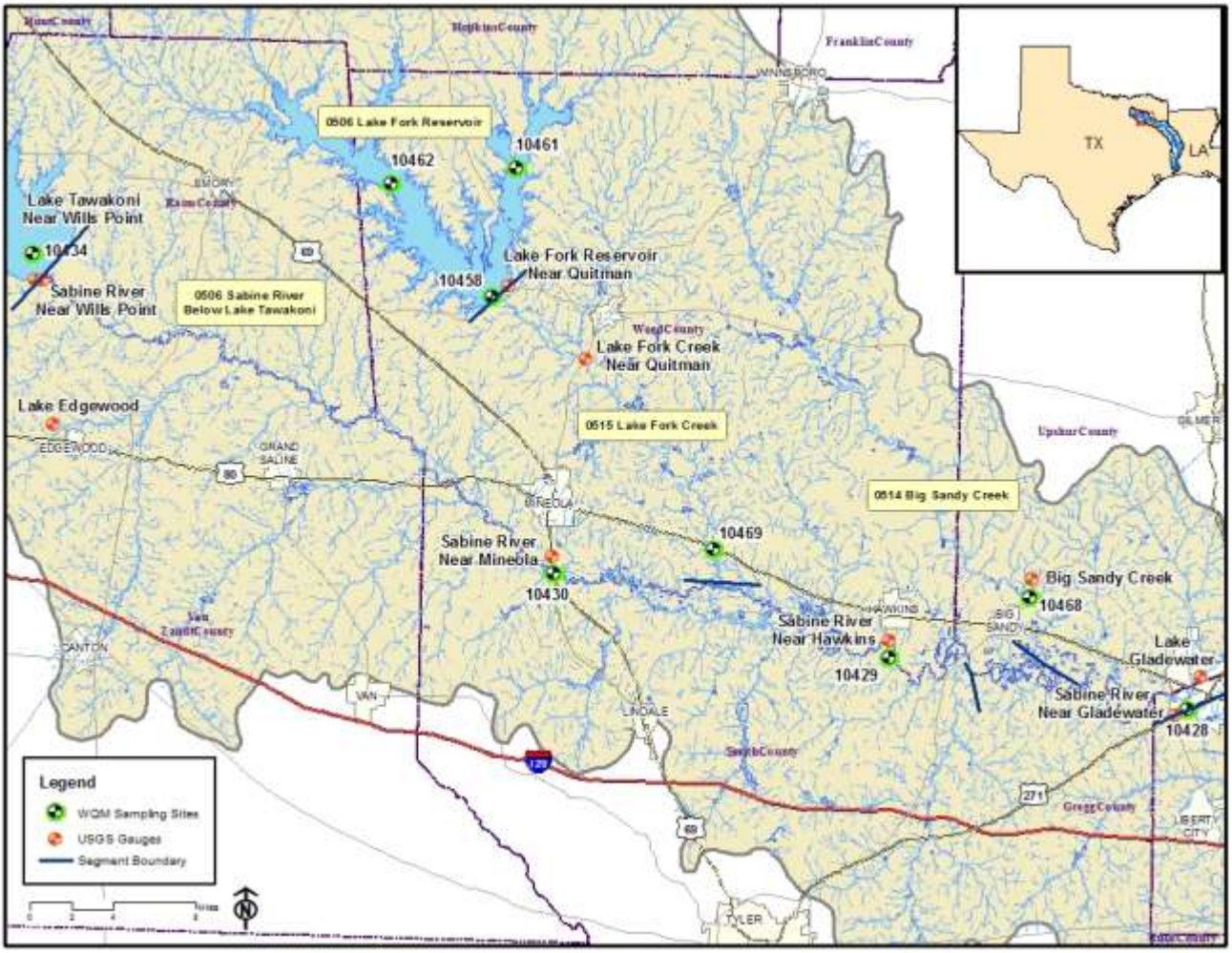
LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM515



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
Temp °C	7.3	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4
DO mg/L	11.0	11.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9

LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM515

Segments 0506, 0512, 0514 & 0515



Segment 0507 - Lake Tawakoni

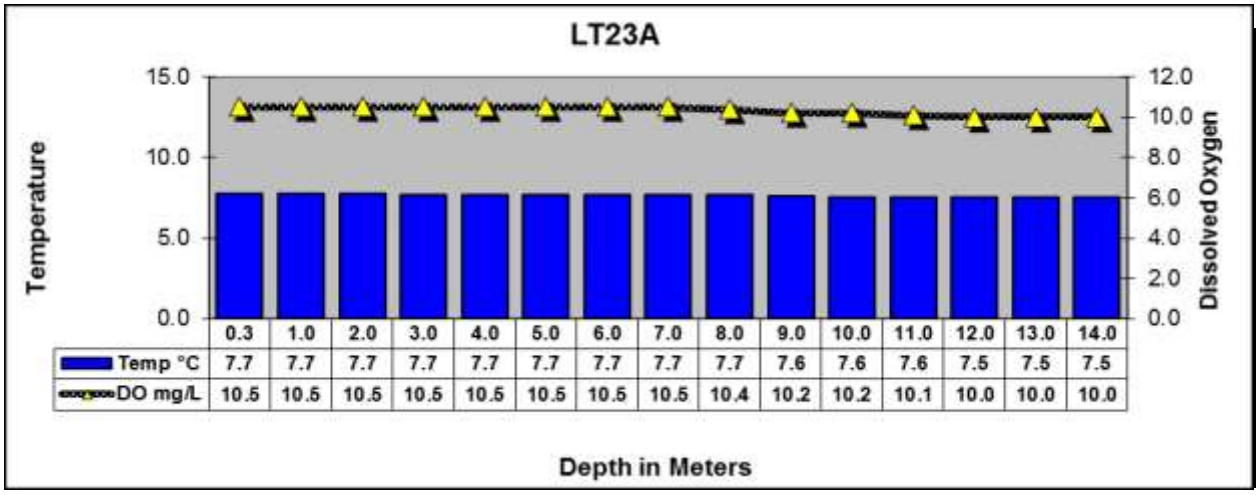
Description: The designated segment includes the impounded Sabine River from Iron Bridge Dam in Rains County up to the normal pool elevation of 437.5 feet. Although much of this segment is rural, it contains two cities with populations greater than 5,000, and one of the four largest cities in the Sabine Basin.

Sampling Conditions: Lake Tawakoni received 1.01 inches of rainfall during the seven days prior to sampling. The level of Lake Tawakoni was 436.75 feet msl with a release of 6 cfs at the time of sampling. Reservoir profiles indicated a mixed water column.

Segment 0507 Water Quality

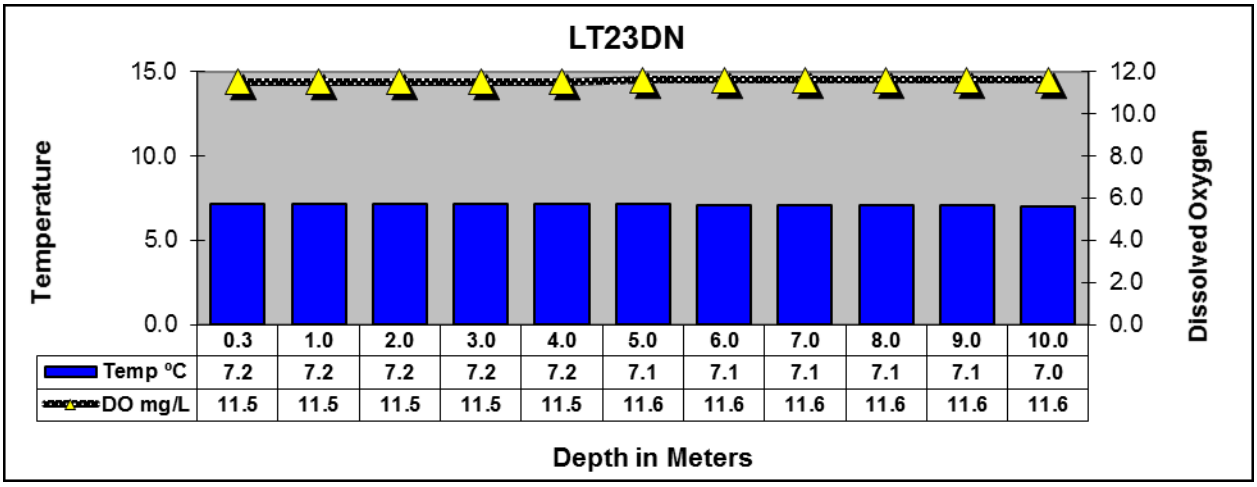
Date and Time	Station	Depth meters	Temp °C	pH SU	DO mg/L	% Sat	Cond µS/cm	TDS mg/L	Secchi meters	Turbidity NTU	*E.coli* mpn/100mL
2/13/18 09:58	10434(LT23A)	0.3	7.2	8.1	11.3	95	196	125	0.98	12.5	< 1
		1.0	7.2	8.1	11.3	95	196	125			
		2.0	7.2	8.1	11.3	95	196	125			
		3.0	7.2	8.1	11.3	95	196	125			
		4.0	7.2	8.1	11.3	95	196	125			
		5.0	7.2	8.1	11.3	95	196	125			
		6.0	7.2	8.1	11.3	95	196	125			
		7.0	7.2	8.1	11.3	95	196	125			
		8.0	7.2	8.1	11.3	95	196	125			
		9.0	7.2	8.1	11.3	95	196	125			
		10.0	7.2	8.1	11.3	95	196	125			
		11.0	7.2	8.1	11.3	95	196	125			
		12.0	7.2	8.1	11.3	95	196	125			
		13.0	7.2	8.1	11.3	94	196	125			
		14.0	7.2	8.1	11.3	95	196	125			
2/13/18 09:30	21173(LT23DN)	0.3	7.2	8.2	11.5	96	197	126	0.86	9.38	< 1
		1.0	7.2	8.2	11.5	96	197	126			
		2.0	7.2	8.2	11.5	96	197	126			
		3.0	7.2	8.2	11.5	96	197	126			
		4.0	7.2	8.2	11.5	96	197	126			
		5.0	7.1	8.2	11.6	97	197	126			
		6.0	7.1	8.2	11.6	97	197	126			
		7.0	7.1	8.2	11.6	97	197	126			
		8.0	7.1	8.2	11.6	97	197	126			
		9.0	7.1	8.2	11.6	97	197	126			
		10.0	7.0	8.2	11.6	97	197	126			
2/13/18 09:09	10437(LT23B)	0.3	6.9	8.1	11.4	95	196	125	0.66	16.0	< 1
		1.0	6.9	8.1	11.4	95	196	125			
		2.0	6.9	8.1	11.4	95	196	125			
		3.0	6.9	8.1	11.5	96	196	125			
		4.0	6.9	8.1	11.5	96	196	125			
		5.0	6.9	8.1	11.6	97	196	125			
		6.0	6.9	8.1	11.6	97	196	125			
		7.0	6.9	8.1	11.5	96	196	125			
		8.0	7.0	8.1	11.5	96	196	125			

Lake Tawakoni Reservoir Profiles



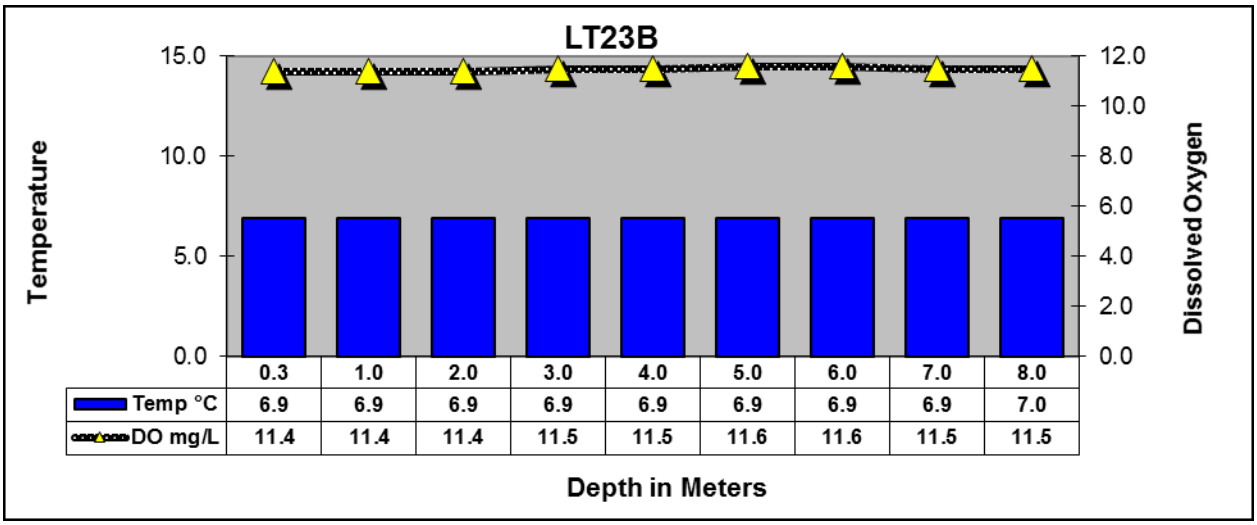
	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
Temp °C	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.5	7.5	7.5
DO mg/L	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.4	10.2	10.2	10.1	10.0	10.0	10.0

LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Temp °C	7.2	7.2	7.2	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.0
DO mg/L	11.5	11.5	11.5	11.5	11.5	11.6	11.6	11.6	11.6	11.6	11.6

LAKE TAWAKONI IN WACO BAY EQUIDISTANT FROM FINGER AND SPRING POINTS



	0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Temp °C	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.0
DO mg/L	11.4	11.4	11.4	11.5	11.5	11.6	11.6	11.5	11.5

LAKE TAWAKONI AT SH276

Segment 0507