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## SABINE RIVER AUTHORITY OF TEXAS

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**TO:** INTERESTED PARTIES  
**FROM:** ENVIRONMENTAL SERVICES DIVISION  
**RE:** APRIL 2000 WATER QUALITY MONITORING REPORT

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This is the Sabine River Authority Water Quality Summary for April 2000. Water quality sampling was performed April 11 through April 13. Daytime high air temperatures during the seven days prior to the sampling dates ranged from 60 to 84 degrees in the Upper Basin and in the 60's and 70's in the Lower Basin. Nighttime lows in the Upper Basin have ranged from 35 to 56 degrees. Low temperatures in the Lower Basin have ranged from 37 to 64 degrees. A significant rainfall event on April 12 strongly influenced some parameters.

### **UPPER SABINE BASIN ABOVE TOLEDO BEND INCLUDING LAKE FORK AND LAKE TAWAKONI**

For the April sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. A rain event on April 12 during the sample run resulted in some high values for turbidity and fecal coliform at river sites sampled that day. Fecal coliform to fecal streptococcal ratios at these sites indicate the high bacteria values were not due to human sources. Water Temperature and dissolved oxygen values at Lake Tawakoni and Lake Fork were very similar throughout the water column. Ammonia was elevated at SR15.

**LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF**

April WQM sampling results were indicative of high water quality at most sites. Profiles taken at deep-water stations on the reservoir exhibited thermal stratification with near-anoxic conditions at approximately 15 meters. Stations TB6N, TB6I, TB8 and BA4 had fecal counts above stream standards. Station BA4, compared to other sites analyzed during this sampling event, had higher sulfate and chloride levels and slightly higher conductivity readings. Station BA4 is sampled from a bayou that receives discharge from a paper mill.

**TIDAL SECTION OF THE SABINE BASIN BELOW MORGAN BLUFF**

Stations sampled in the tidal portion of the Sabine Basin had values that were consistent with water of high quality. Stations SR1, SRT2, SRT1 and ICW1 had fecal counts above stream standards. Recent rainfall before and during the sampling event could have contributed to the elevated fecal counts. Salinity was recorded at all four tidal stations: SRT1, SRT2, BB1 and ICW1. The greatest salinity reading observed was 18 ppt at Station SRT1. A definite salt-water wedge was detected at all tidal sites with no thermal stratification.

This Report and additional data for these monitoring stations are available on our World Wide Web site ([www.sra.dst.tx.us](http://www.sra.dst.tx.us)). If you have any questions or comments concerning this report, please contact:

- *Upper Sabine Basin*  
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- *Lower and Tidal Sabine Basin*  
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# SABINE RIVER AUTHORITY OF TEXAS

## Water Quality Monitoring Program

April 2000

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#### Appendix

2000 SRA WQMP Stations, by Reach

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# *Current WQMP Stations*

## *Upper Sabine Basin*

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
7.00	0507 10440 (LT23C)	LAKE TAWAKONI AT COWLEECH FORK
7.00	0507 10435 (LT23D)	LAKE TAWAKONI IN KITSEE INLET
7.00	0507 10434 (LT23A)	LAKE TAWAKONI IN MAIN LAKE
6.12	0512 16691 (LF7)	LAKE FORK RESERVOIR 3.7KM UPSTREAM OF FM2946 AT BOUY #63
6.12	0512 10461 (LF3)	LAKE FORK RES AT CANEY CREEK ARM
6.12	0512 10462 (LF4)	LAKE FORK RES AT LAKE FORK CREEK ARM
6.12	0512 10458 (LF2)	LAKE FORK RES NEAR DAM
6.10	0515 10469 (LF20)	LAKE FORK CREEK AT US 80
6.02	0514 10467 (BS18)	BIG SANDY CREEK AT US 80
6.00	0506 10430 (SR21)	SABINE RIVER AT US 69
6.00	0506 10429 (SR19)	SABINE RIVER AT FM 14
5.00	0505 10428 (SR17)	SABINE RIVER AT US 271
5.00	0505 10427 (SR16)	SABINE RIVER AT SH 42
5.00	0505 10426 (SR15)	SABINE RIVER AT US 259
5.00	0505 10423 (SR14)	SABINE RIVER AT SH 149
5.00	0505 13628 (SR11)	SABINE RIVER AT US 59
5.00	0505 10415 (SR10)	SABINE RIVER AT FM 2517

**SABINE RIVER AUTHORITY OF TEXAS**  
 Upper Sabine Basin Report  
 April 2000

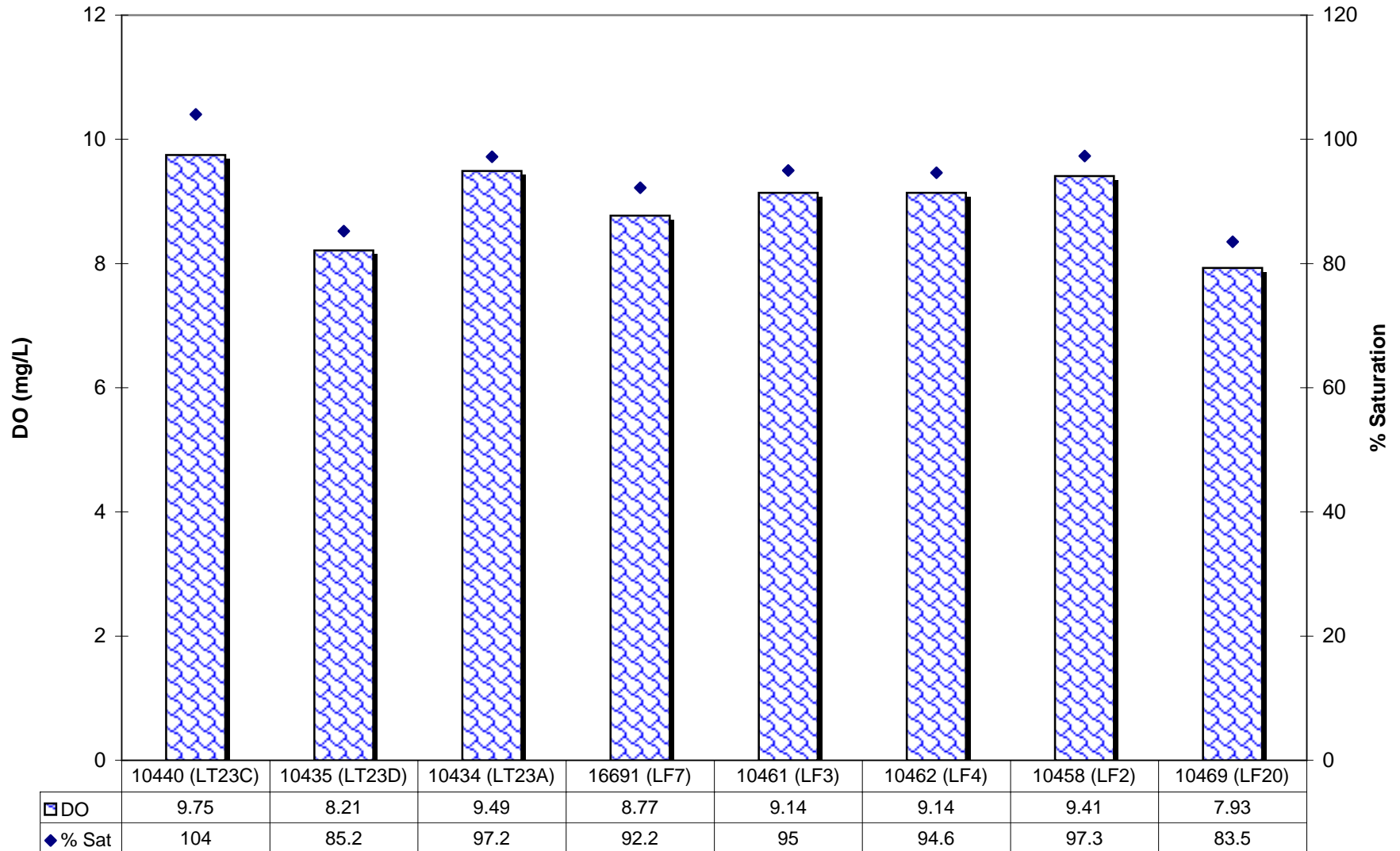
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
4/11/00 2:17 PM	7.00	10440 (LT23C)	18.3	8.58	9.75	104	194	*	0.4	18.3	< 2	*	*	0.002	< 0.02	< 0.02	5	*	*	5.4	12.8
4/11/00 1:20 PM	7.00	10435 (LT23D)	17.1	8.35	8.21	85.2	200	*	0.31	25.8	3	*	*	0.005	< 0.02	< 0.02	6	*	*	5.9	14.1
4/11/00 12:27 PM	7.00	10434 (LT23A)	16.6	8.32	9.49	97.2	192	*	0.91	7.53	< 2	*	*	0.013	< 0.02	< 0.02	5	*	*	5.1	11.9
4/11/00 11:20 AM	6.12	16691 (LF7)	17.7	7.32	8.77	92.2	158	*	0.98	6.67	3	*	*	0.002	< 0.02	< 0.02	6	*	*	13.9	28.6
4/11/00 10:16 AM	6.12	10461 (LF3)	17.2	7.31	9.14	95	163	*	1.27	4.62	3	*	*	0.006	< 0.02	< 0.02	6	*	*	15.2	22.8
4/11/00 10:43 AM	6.12	10462 (LF4)	17	7.47	9.14	94.6	157	*	1.41	3.58	< 2	*	*	0.002	< 0.02	< 0.02	6	*	*	14.2	23.5
4/11/00 9:28 AM	6.12	10458 (LF2)	17	7.03	9.41	97.3	165	*	1.5	3.43	2	*	*	0.011	< 0.02	< 0.02	6	*	*	13.9	21
4/11/00 3:56 PM	6.10	10469 (LF20)	17.9	7.31	7.93	83.5	284	*	0.31	39.9	176	*	*	0.052	0.16	< 0.02	8	*	*	40.4	43.6
4/12/00 8:34 AM	6.02	10467 (BS18)	16.4	6.48	7.81	79.8	135	*	0.37	38.5	> 1200	> 1200	*	0.085	0.18	< 0.02	10	*	*	16.7	21.8
4/11/00 3:33 PM	6.00	10430 (SR21)	18.6	7.24	7.38	78.7	437	*	0.26	55.1	124	*	*	0.084	0.26	< 0.02	10	*	*	26.4	60.9
4/11/00 4:14 PM	6.00	10429 (SR19)	18	7.3	8.38	88.5	281	*	0.29	37	124	*	*	0.04	0.15	< 0.02	9	*	*	39.1	38
4/12/00 8:57 AM	5.00	10428 (SR17)	17.1	6.91	8.07	83.5	200	*	0.3	50	4200	> 6000	*	0.03	0.15	< 0.02	8	*	*	30.2	25.9
4/12/00 9:19 AM	5.00	10427 (SR16)	16.8	6.67	7.36	75.8	197	*	0.22	111	2800	> 6000	*	0.084	0.2	< 0.02	10	*	*	32.9	20.6
4/12/00 9:36 AM	5.00	10426 (SR15)	17	6.84	7.54	78.1	297	*	0.18	153	> 6000	> 6000	*	0.202	0.37	< 0.02	8	*	*	57	26.4
4/12/00 9:56 AM	5.00	10423 (SR14)	16.8	6.9	7.69	79.1	189	*	0.18	136	> 6000	> 6000	*	0.098	0.25	< 0.02	8	*	*	27.6	20.2
4/12/00 10:37 AM	5.00	13628 (SR11)	17.5	7.26	7.76	80.8	275	*	0.22	167	2100	3200	*	0.079	0.34	< 0.02	9	*	*	40.1	33.6
4/12/00 11:04 AM	5.00	10415 (SR10)	17.4	6.86	7.87	81.9	199	*	0.21	135	2700	4500	*	< 0.001	0.36	< 0.02	11	*	*	27.3	26.1

\*: Not sampled on this run

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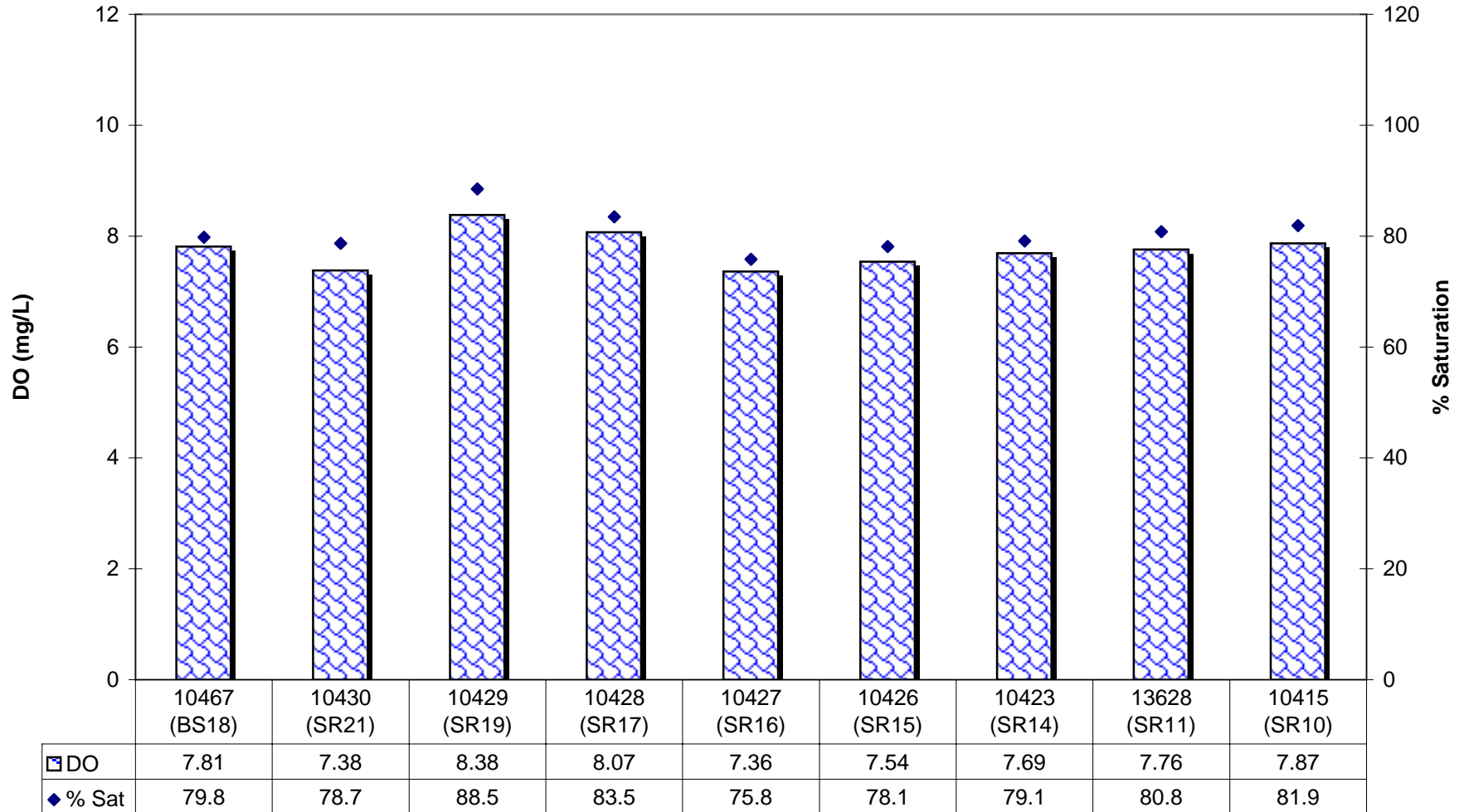
## Upper Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

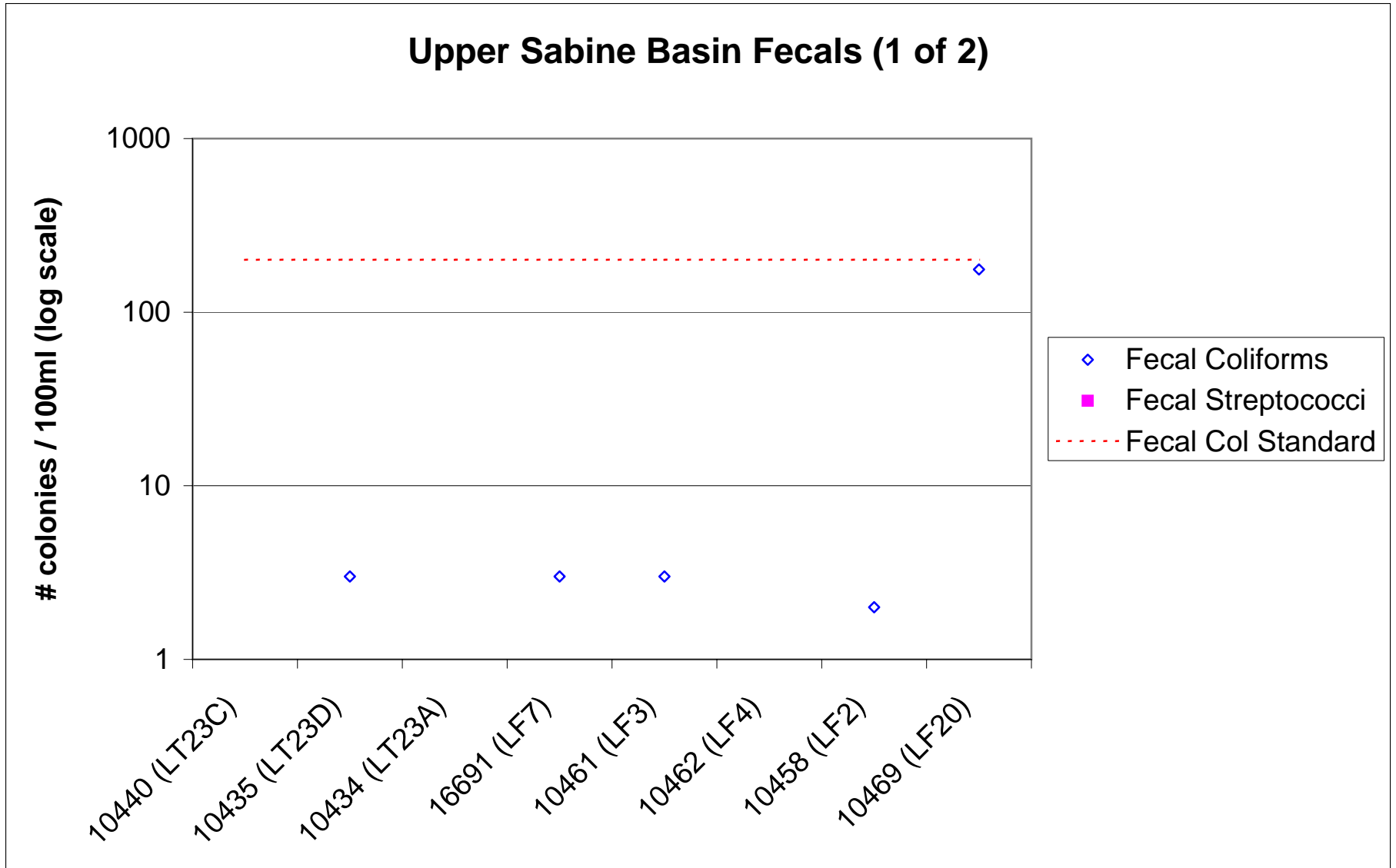
April 2000

## Upper Sabine Basin DO / % Saturation (2 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

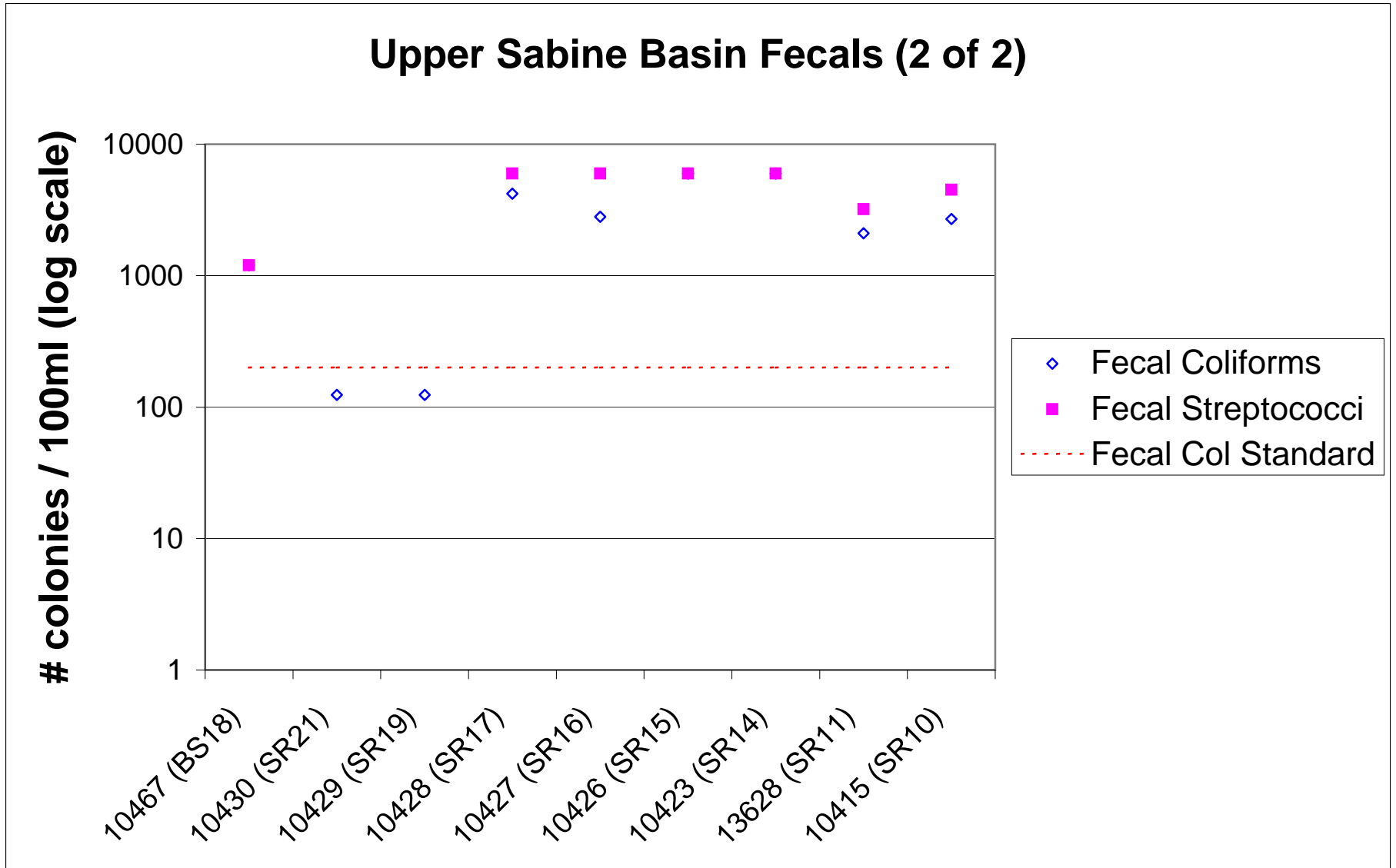
April 2000



Stations without values were below detection limit or not sampled on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

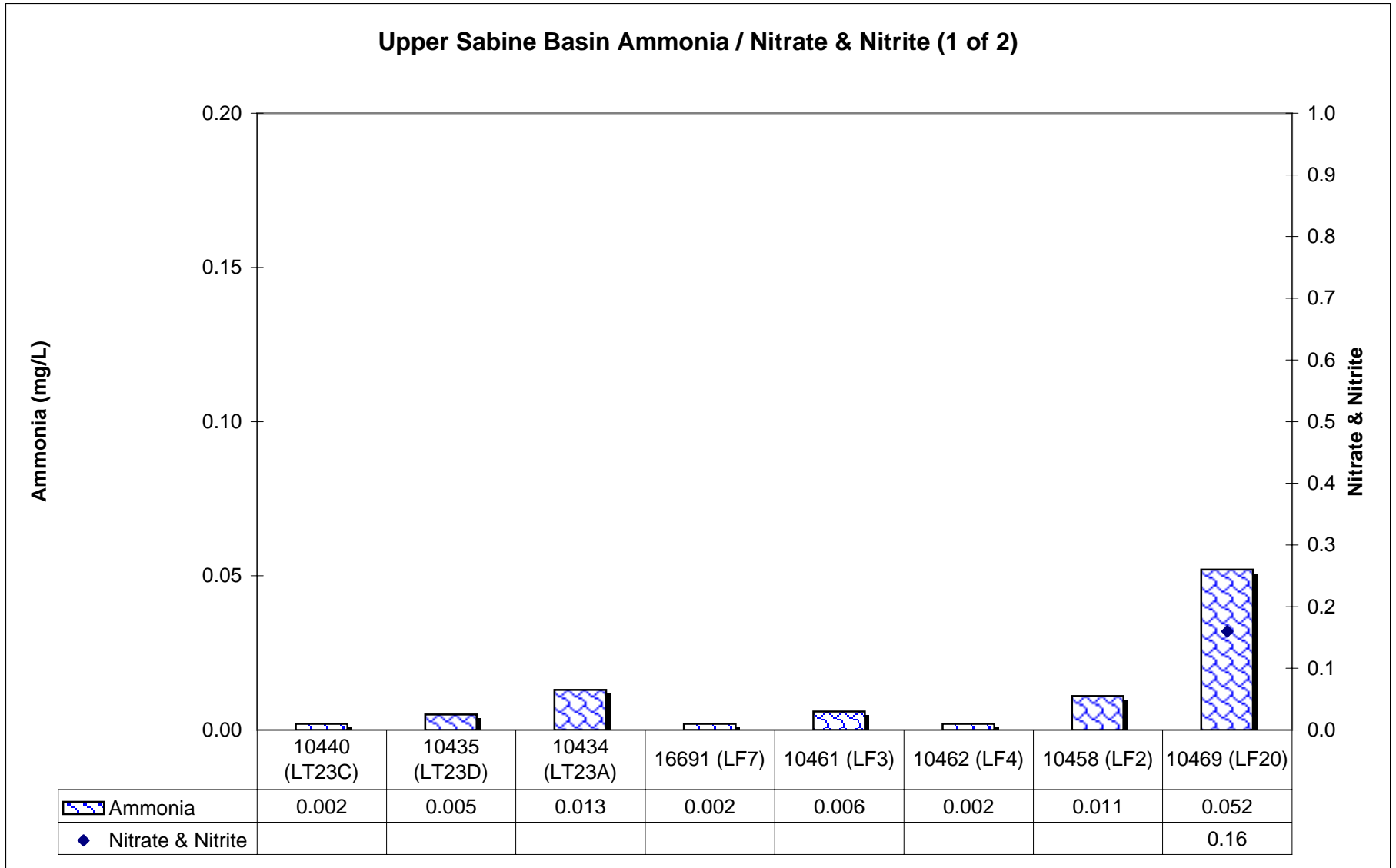
April 2000



Stations without values were below detection limit or not sampled on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

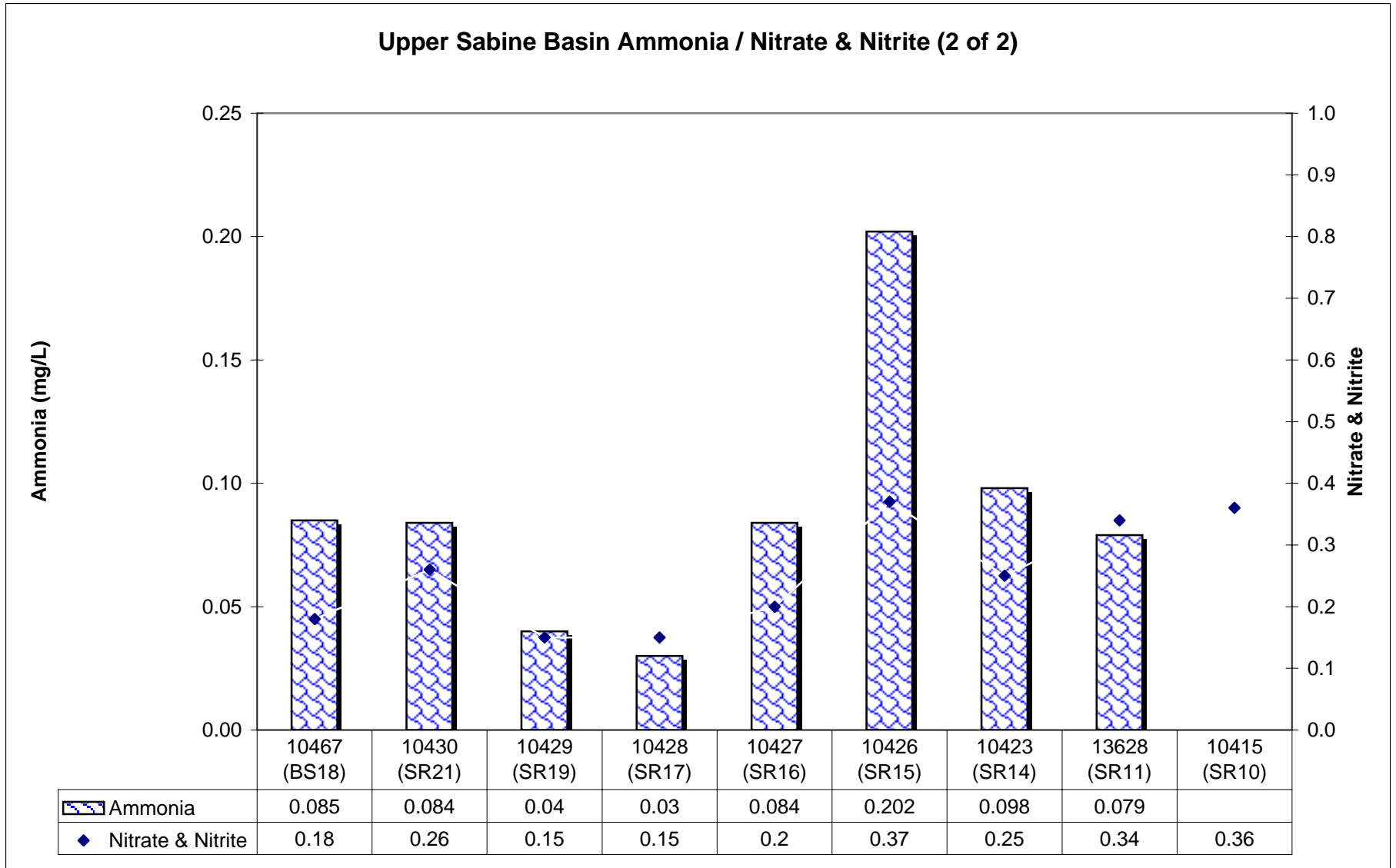
April 2000



Stations without values were below detection limit on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



Stations without values were below detection limit on this run (see page 2).

SABINE RIVER AUTHORITY OF TEXAS

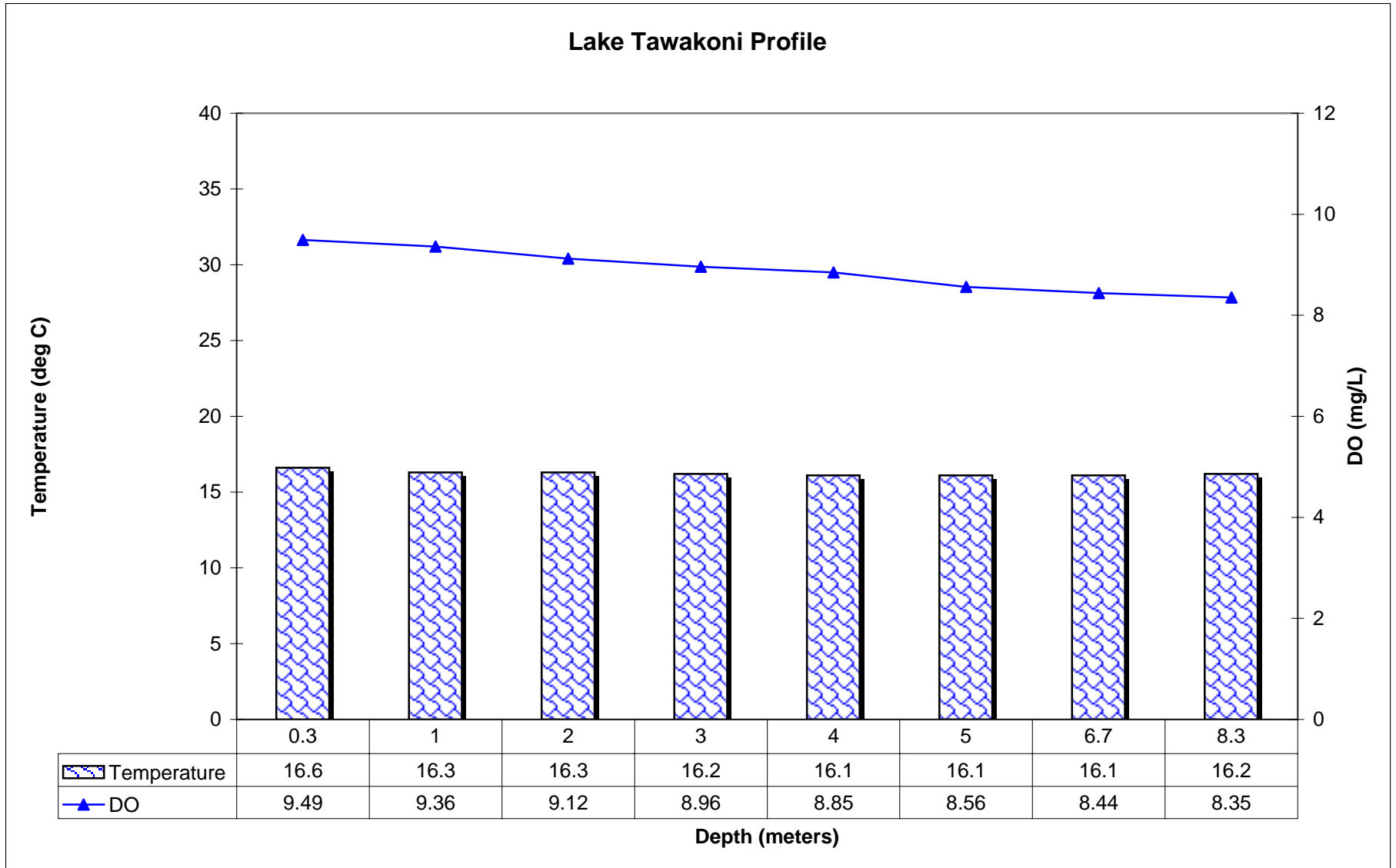
Upper Basin Profiles

April 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094			
4/11/00 2:17 PM	7.00	10440 (LT23C)	0.3	18.3	8.58	9.75	104	194			
			1	17.4	8.52	9.63	101	195			
			2	16.7	8.3	8.76	90.7	194			
			2.6	16.8	8.23	8.56	87.9	197			
4/11/00 1:20 PM	7.00	10435 (LT23D)	0.3	17.1	8.35	8.21	85.2	200			
			1	17	8.28	8.06	83.5	198			
			2.5	16.9	8.09	7.75	79.9	198			
			4.1	16.8	7.98	7.51	77.3	199			
			5.8	16.8	8	7.55	78	199			
			7.3	16.8	8.05	7.58	77.4	198			
4/11/00 12:27 PM	7.00	10434 (LT23A)	0.3	16.6	8.32	9.49	97.2	192			
			1	16.3	8.3	9.36	96.4	192			
			2	16.3	8.25	9.12	93.5	190			
			3	16.2	8.17	8.96	91.2	189			
			4	16.1	8.14	8.85	90	189			
			5	16.1	8.08	8.56	88.7	197			
			6.7	16.1	8.04	8.44	85.7	195			
			8.3	16.2	8.01	8.35	84.5	196			
			4/11/00 11:20 AM	6.12	16691 (LF7)	0.3	17.7	7.32	8.77	92.2	158
1	17.7	7.31				8.8	92.2	161			
2.2	17.4	7.27				8.6	90.3	157			
3.6	17.2	7.24				8.23	85.3	158			
5.1	17.1	7.27				7.83	81.1	164			
4/11/00 10:16 AM	6.12	10461 (LF3)	0.3	17.2	7.31	9.14	95	163			
			1	17.1	7.28	9.1	94.6	160			
			2	17	7.23	9.02	93.5	157			
			4	16.9	7.17	8.87	91.8	165			
			7.3	16.9	7.08	8.85	91.4	165			
			8.9	16.9	7.13	8.86	91.5	166			
			9.3	16.9	6.96	8.8	90.9	161			
04/11/2000 10:43	6.12	10462 (LF4)	0.3	17	7.47	9.14	94.6	157			
			1	16.9	7.46	9.1	94.4	158			
			2.1	16.8	7.44	8.98	92.6	156			
			3.7	16.7	7.42	8.85	91.2	158			
			5.2	16.7	7.41	8.81	90.8	153			
			7.2	16.7	7.39	8.62	88.6	158			
			9.1	16.6	7.39	8.52	87.9	159			
			10.5	16.6	7.45	8.34	85.5	159			
			04/11/2000 9:28	6.12	10458 (LF2)	0.3	17	7.03	9.41	97.3	165
						1.06	17	7.03	9.38	97.1	165
2.19	16.9	6.97				9.31	96.2	165			
4	16.9	6.9				9.22	95.2	165			
6.06	16.7	6.73				8.61	88.8	165			
8.58	16.6	6.64				8.07	83.1	165			
11.15	16.4	6.61				7.78	79.6	165			
13.5	16.4	6.55				7.69	78.6	165			
15.2	16.4	6.5				7.55	77.3	165			
17.1	16.4	6.45				7.37	75.3	166			

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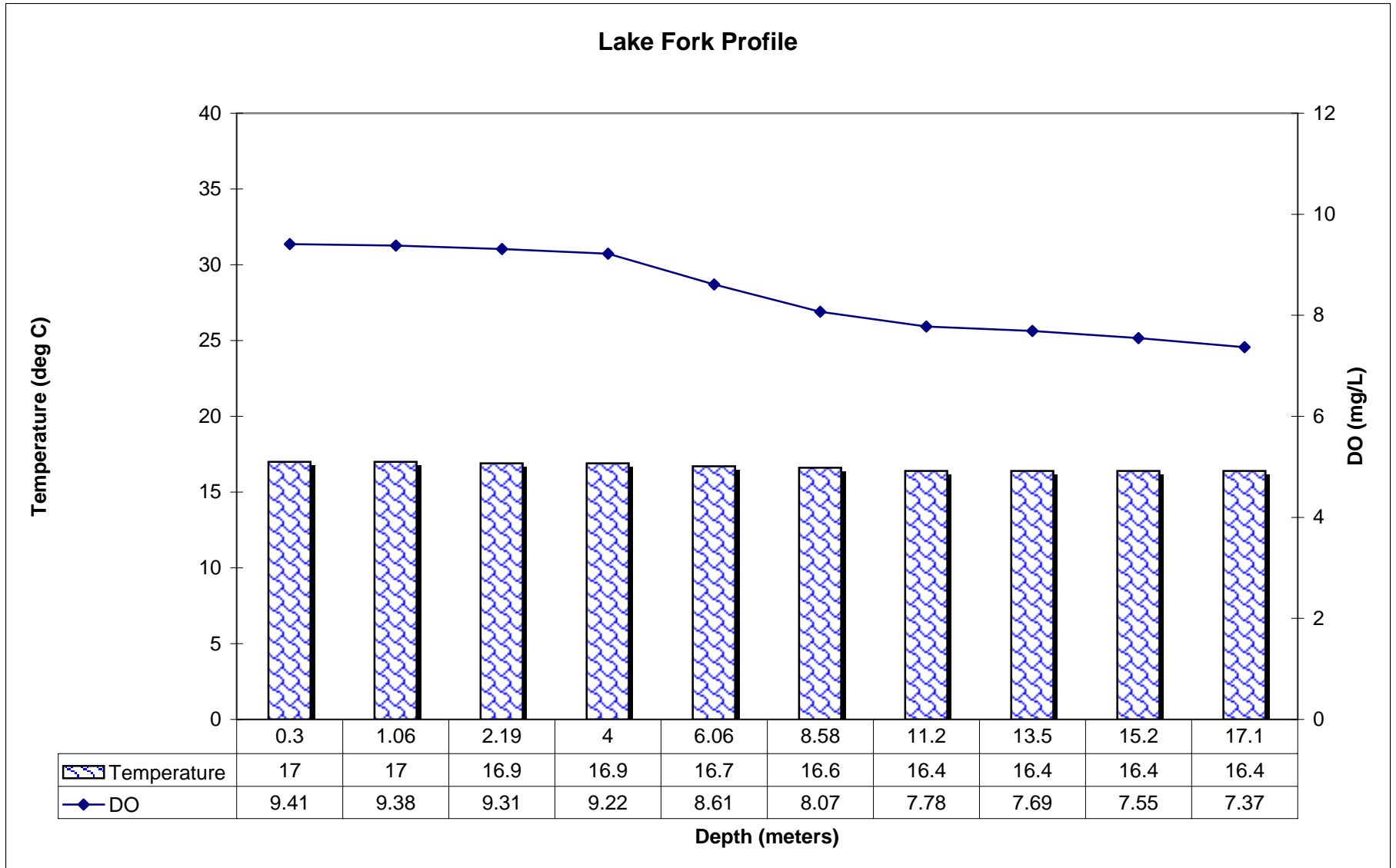
April 2000



For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



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## Lake Tawakoni Weather and Reservoir Data

April 2000

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
04/01/2000	431.95	(5.55)	0	70	51	0.00	0.14
04/02/2000	432.01	(5.49)	0	67	52	0.29	0.08
04/03/2000	432.02	(5.48)	0	58	52	0.50	0.07
04/04/2000	432.03	(5.47)	0	61	38	0.02	0.20
04/05/2000	431.96	(5.54)	0	66	39	0.00	0.29
04/06/2000	431.95	(5.55)	0	76	50	0.00	0.33
04/07/2000	431.94	(5.56)	0	80	56	0.00	0.24
04/08/2000	432.01	(5.49)	0	84	42	0.00	0.24
04/09/2000	431.92	(5.58)	0	60	33	0.00	0.18
04/10/2000	431.88	(5.62)	0	69	35	0.00	0.32
04/11/2000	431.89	(5.61)	0	70	53	0.15	0.06
04/12/2000	432.04	(5.46)	0	78	36	1.34	0.00
04/13/2000	432.09	(5.41)	0	58	47	0.04	0.16
04/14/2000	432.09	(5.41)	0	59	47	0.00	0.06
04/15/2000	432.10	(5.40)	0	68	52	0.00	0.16
04/16/2000	432.09	(5.41)	0	78	54	0.07	0.08
04/17/2000	432.09	(5.41)	0	78	52	0.00	0.20
04/18/2000	432.19	(5.31)	0	76	53	0.00	0.27
04/19/2000	432.19	(5.31)	0	85	61	0.00	0.12
04/20/2000	432.19	(5.31)	5	85	59	0.00	0.20
04/21/2000	432.21	(5.29)	5	76	48	0.00	0.22
04/22/2000	432.18	(5.32)	5	74	49	0.00	0.29
04/23/2000	432.18	(5.32)	5	80	52	0.09	0.29
04/24/2000	432.20	(5.30)	5	88	56	0.00	0.24
04/25/2000	432.14	(5.36)	5	78	52	0.00	0.25
04/26/2000	432.14	(5.36)	5	80	54	0.00	0.13
04/27/2000	432.13	(5.37)	5	83	58	0.00	0.30
04/28/2000	432.14	(5.36)	5	71	50	0.28	0.15
04/29/2000	432.11	(5.39)	5	76	53	0.00	0.18
04/30/2000	432.10	(5.40)	5	82	54	0.00	0.19
<b>Avg or Tot</b>	432.07	(5.43)	2	74	50	2.78	5.64

	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	Deg F	Deg F	Inches	Inches
		Instantaneous appx. 8 a.m.					

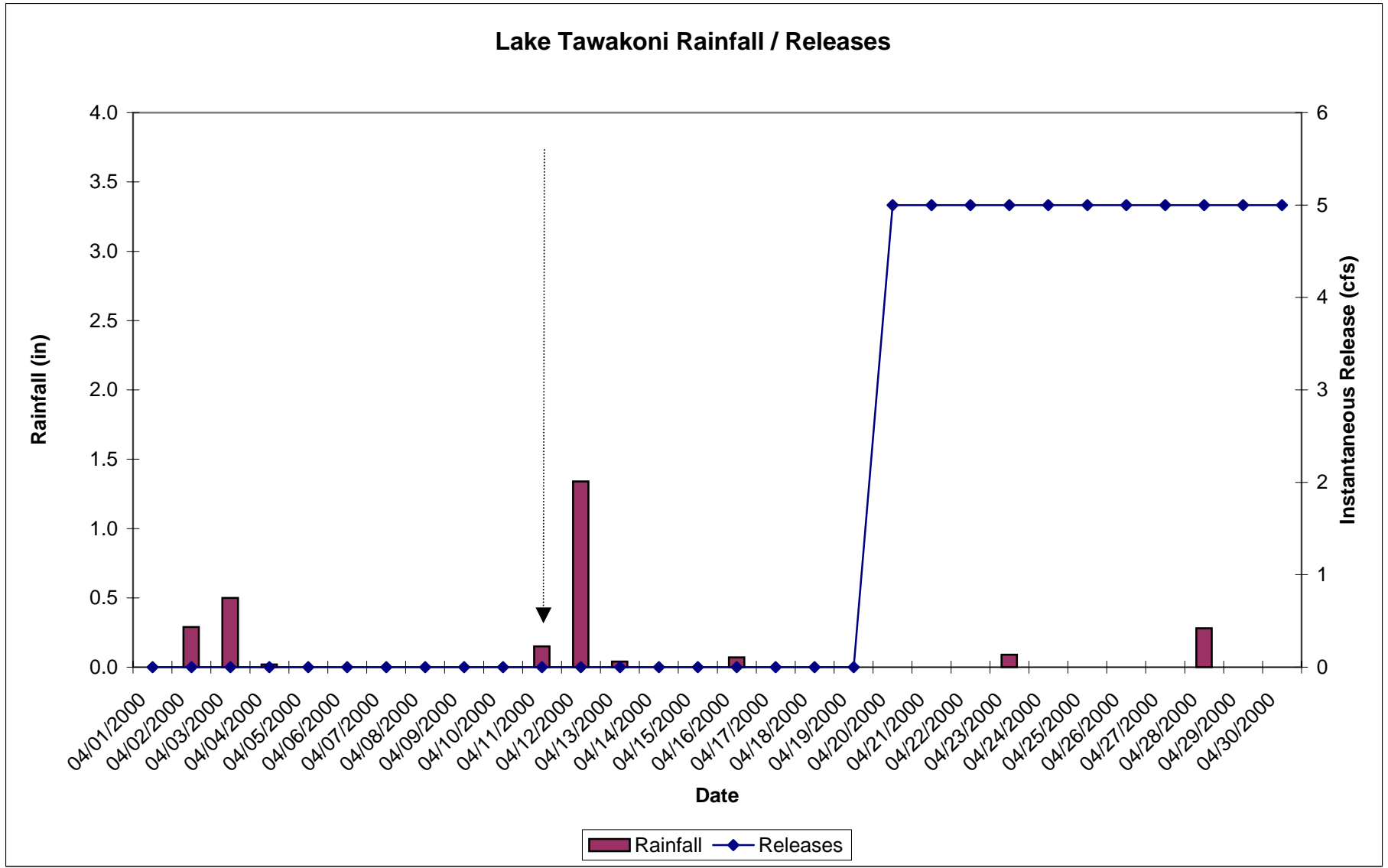
NR: No Reading

TOP: Top of Pool = 437.5 Feet M.S.L.

Lake Tawakoni Sampled on 4/11/2000

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



Please Note : Lake Tawakoni has an uncontrolled spillway.

# SABINE RIVER AUTHORITY OF TEXAS

## Lake Fork Weather and Reservoir Data

April 2000

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
04/01/2000	400.24	(2.76)	48	48	70	51	0.00	0.18
04/02/2000	400.30	(2.70)	48	48	66	53	0.72	0.00
04/03/2000	400.34	(2.66)	48	48	58	54	0.48	0.00
04/04/2000	400.34	(2.66)	48	48	62	42	0.02	0.12
04/05/2000	400.34	(2.66)	48	48	65	40	0.00	0.22
04/06/2000	400.29	(2.71)	48	48	68	51	0.00	0.34
04/07/2000	400.28	(2.72)	48	48	79	51	0.00	0.31
04/08/2000	400.36	(2.64)	48	48	81	45	0.82	0.00
04/09/2000	400.40	(2.60)	48	48	61	36	0.00	0.25
04/10/2000	400.29	(2.71)	48	48	68	35	0.00	0.26
04/11/2000	400.34	(2.66)	48	48	70	55	0.10	0.00
04/12/2000	400.64	(2.36)	48	48	76	55	1.92	0.00
04/13/2000	400.74	(2.26)	48	48	56	47	0.02	0.07
04/14/2000	400.79	(2.21)	48	48	61	47	0.02	0.08
04/15/2000	400.87	(2.13)	48	48	63	53	0.00	0.12
04/16/2000	400.54	(2.46)	48	48	74	54	0.02	0.19
04/17/2000	400.84	(2.16)	48	48	78	49	0.00	0.18
04/18/2000	400.84	(2.16)	48	48	75	54	0.00	0.20
04/19/2000	400.79	(2.21)	48	48	84	62	0.00	0.28
04/20/2000	400.84	(2.16)	48	48	83	62	0.00	0.30
04/21/2000	400.87	(2.13)	48	48	76	54	0.00	0.30
04/22/2000	400.84	(2.16)	48	48	75	49	0.00	0.25
04/23/2000	400.81	(2.19)	48	48	79	52	0.08	0.24
04/24/2000	400.79	(2.21)	48	48	84	58	0.00	0.28
04/25/2000	400.74	(2.26)	48	48	78	52	0.00	0.21
04/26/2000	400.74	(2.26)	48	48	77	55	0.00	0.24
04/27/2000	400.74	(2.26)	48	48	83	60	0.00	0.25
04/28/2000	400.74	(2.26)	48	48	83	51	0.49	0.00
04/29/2000	400.78	(2.22)	48	48	76	53	0.00	0.28
04/30/2000	400.76	(2.24)	48	48	79	57	0.11	0.24
<b>Avg or Tot</b>	400.61	(2.39)	48	48	73	51	4.80	5.39

Avg	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches Inches
			Previous 24 hrs				

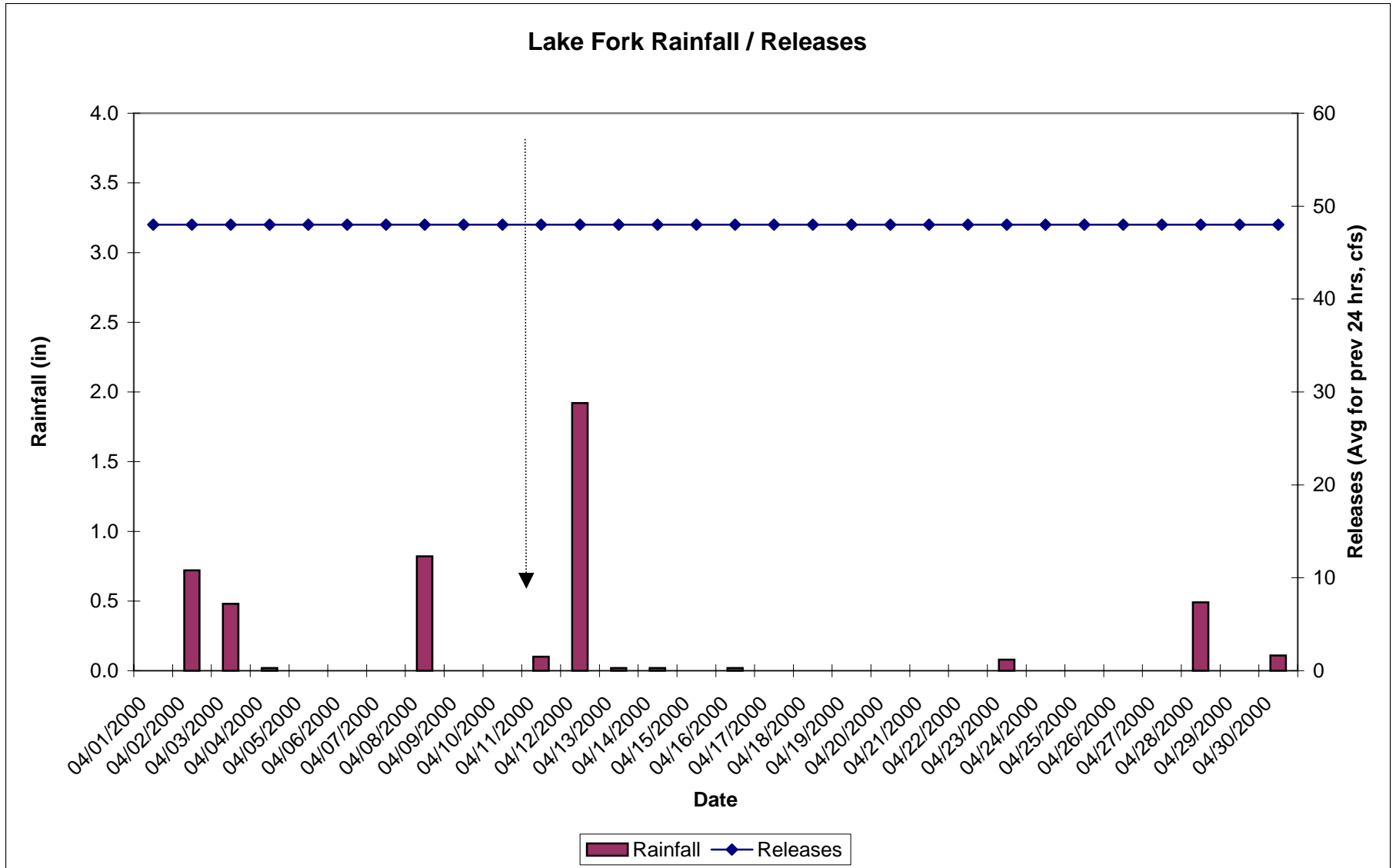
TOP: Top of Pool = 403 Feet M.S.L.

FRZN: Gauge Frozen

Lake Fork Sampled on 4/11/2000

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



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# *Current WQMP Stations*

## *Lower Sabine Basin*

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
4.10	0504 15658 (TB6N)	BAYOU SCIE AT LA SH 91
4.00	0504 10403 (TB8)	TOLEDO BEND RESERVOIR AT US 84
4.00	0504 10412 (TB6I)	TOLEDO BEND RESERVOIR AT TENAHA CREEK
4.00	0504 15657 (TB6M)	TOLEDO BEND RESERVOIR IN SAN PATRICIA ARM
4.00	0504 15656 (TB6L)	TOLEDO BEND RESERVOIR IN SAN MIGUEL ARM
4.00	0504 15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH
4.00	0504 15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU
4.00	0504 10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21
4.00	0504 10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY
4.00	0504 10407 (TB6CN)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE
4.00	0504 10404 (TB6A)	TOLEDO BEND RESERVOIR ABOVE THE DAM
3.03	0503 10340 (BA4)	ANACOCO BAYOU AT LA HWY 111
3.00	0503 10401 (TB6S)	SABINE RIVER AT TOLEDO BEND SPILLWAY
3.00	0503 10400 (TB6)	SABINE RIVER BELOW POWERHOUSE
3.00	0503 10399 (SR5)	SABINE RIVER AT SH 63
3.00	0503 10398 (SR3)	SABINE RIVER AT US 190
2.05	0513 10465 (BCC1)	BIG COW CREEK AT FM 1416
2.00	0503 10397 (SR2)	SABINE RIVER AT SH 12

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Report

April 2000

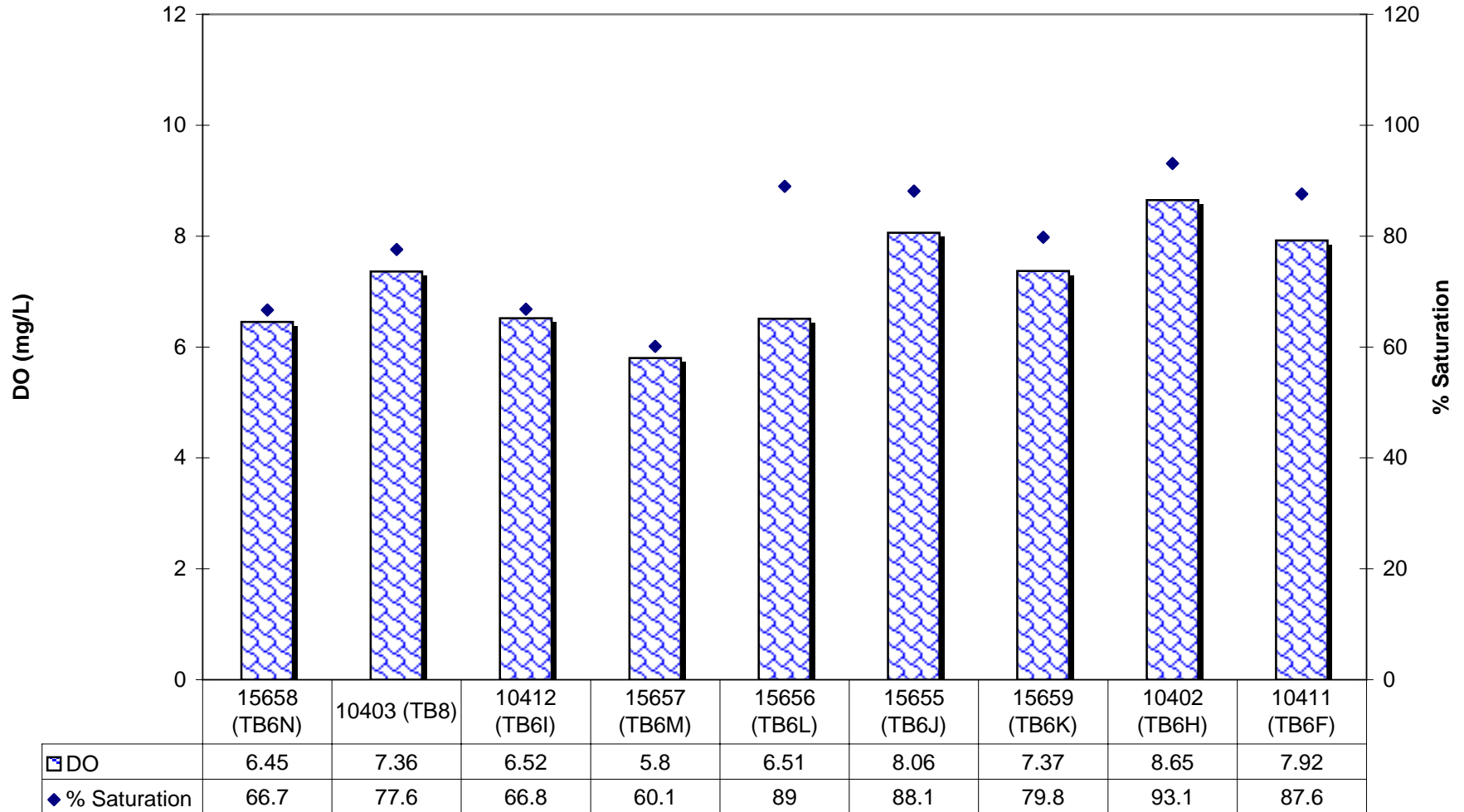
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
4/12/00 1:19 PM	4.10	15658 (TB6N)	17.1	7.02	6.45	66.7	245	*	0.17	63.7	> 1200	> 1200	*	0.095	0.35	0.35	13	*	*	20.5	28.7
4/12/00 11:41 AM	4.00	10403 (TB8)	18.1	6.82	7.36	77.6	228	*	0.42	35.4	> 1200	> 1200	*	0.048	0.24	< 0.02	10	*	*	32.2	28.9
4/12/00 12:04 PM	4.00	10412 (TB6I)	16.6	6.77	6.52	66.8	136	*	0.37	41.2	> 1200	> 1200	*	0.125	0.37	0.14	12	*	*	12.8	20.7
4/12/00 1:45 PM	4.00	15657 (TB6M)	17.2	6.31	5.8	60.1	157	*	0.38	30.1	96	*	0.111	0.17	< 0.02	12	*	*	19.2	18.2	
4/12/00 1:30 PM	4.00	15656 (TB6L)	18	6.65	6.51	89	138	*	0.38	28.7	88	*	0.08	0.16	0.06	14	*	*	12.4	19.2	
4/12/00 10:51 AM	4.00	15655 (TB6J)	19.6	7.07	8.06	88.1	137	*	0.46	21.9	4	*	0.007	0.09	< 0.02	11	*	*	12.1	23.2	
4/12/00 1:00 PM	4.00	15659 (TB6K)	19.2	6.96	7.37	79.8	160	*	0.55	19.9	2	*	0.012	0.09	< 0.02	7	*	*	17.6	21.3	
4/12/00 11:48 AM	4.00	10402 (TB6H)	18.9	7.43	8.65	93.1	175	*	1.5	3.09	2	*	0.014	< 0.02	< 0.02	6	*	*	16.7	15.7	
4/12/00 11:15 AM	4.00	10411 (TB6F)	20.5	6.78	7.92	87.6	101	*	0.52	23.5	2	*	0.029	0.14	< 0.02	8	*	*	7.8	13.1	
4/12/00 10:04 AM	4.00	10407 (TB6CN)	21.4	6.58	8.17	92.1	124	*	0.92	8.26	2	*	0.008	0.04	< 0.02	9	*	*	11.7	16.7	
4/12/00 10:45 AM	4.00	10404 (TB6A)	18.1	7.05	8.52	90.1	133	*	1.39	2.85	2	*	2.36	0.04	< 0.02	5	*	*	12.9	14.9	
4/12/00 12:50 PM	3.03	10340 (BA4)	19.8	6.77	7.46	80.9	482	*	0.33	42.3	280	67	*	0.51	0.38	0.09	15	*	*	41.2	102
4/12/00 10:05 AM	3.00	10401 (TB6S)	15.6	6.66	8.84	88.5	137	*	> 2.5	3.3	13	*	0.05	0.12	< 0.02	5	*	*	12.9	15.4	
4/12/00 10:25 AM	3.00	10400 (TB6)	17.6	6.9	8.13	85.2	129	*	> 1	2.39	< 2	*	0.074	0.05	< 0.02	5	*	*	12.5	15	
4/12/00 12:20 PM	3.00	10399 (SR5)	18.9	6.65	8.26	88.7	123	*	> 1.2	14.6	52	*	< 0.001	0.13	< 0.02	7	*	*	13.4	14.6	
4/12/00 1:15 PM	3.00	10398 (SR3)	20.4	6.51	7.86	87.1	172	*	0.64	23.6	70	*	1.61	0.2	0.02	8	*	*	15.5	28.5	
4/12/00 1:50 PM	2.05	10465 (BCC1)	18.1	5.84	8.26	87.5	50	*	0.6	32.5	84	*	0.032	0.12	< 0.02	6	*	*	6.3	2.8	
4/12/00 2:15 PM	2.00	10397 (SR2)	20.5	6.37	7.45	82.9	200	*	0.42	29.2	58	*	< 0.001	0.2	0.02	11	*	*	17.4	35.3	

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

April 2000

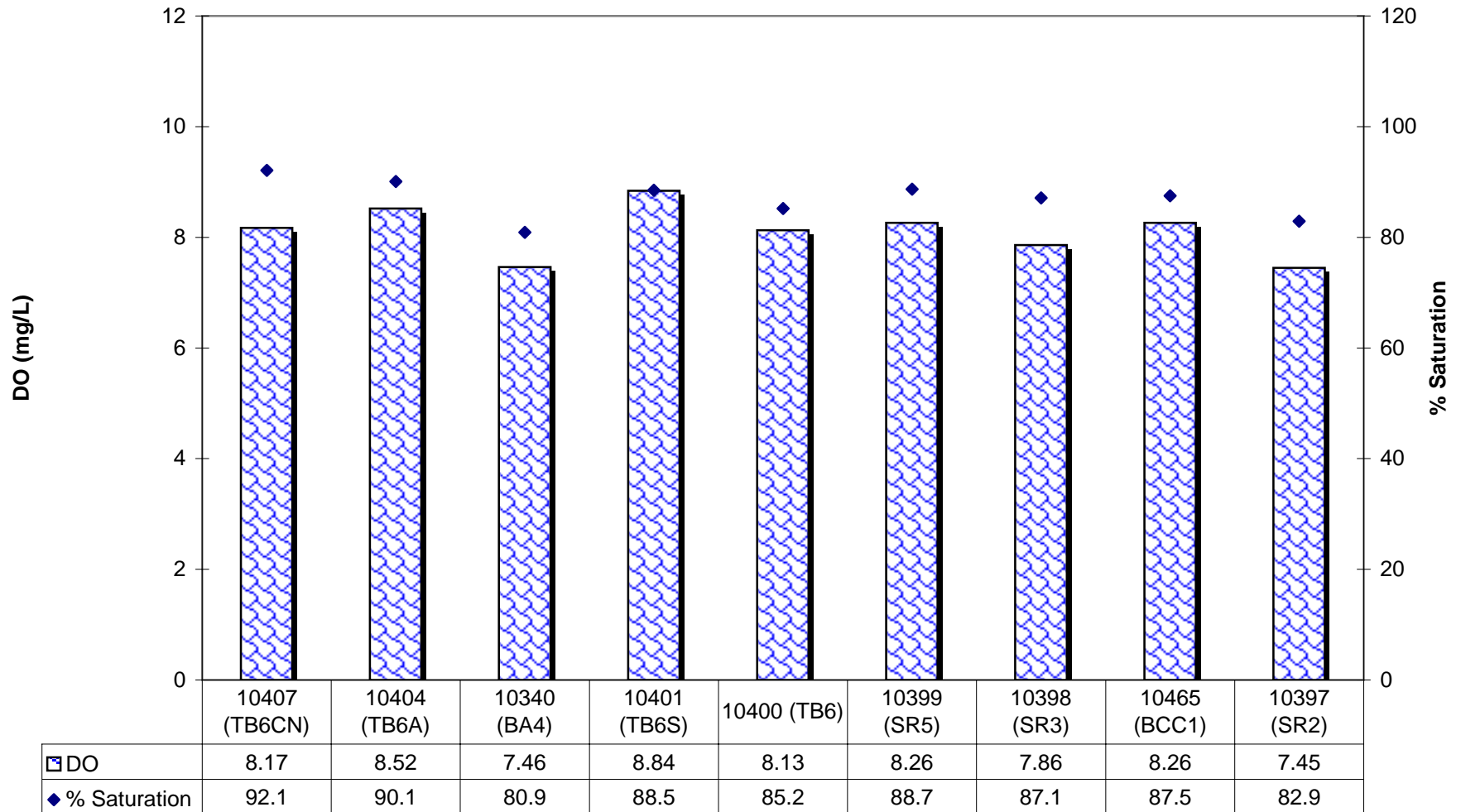
## Lower Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

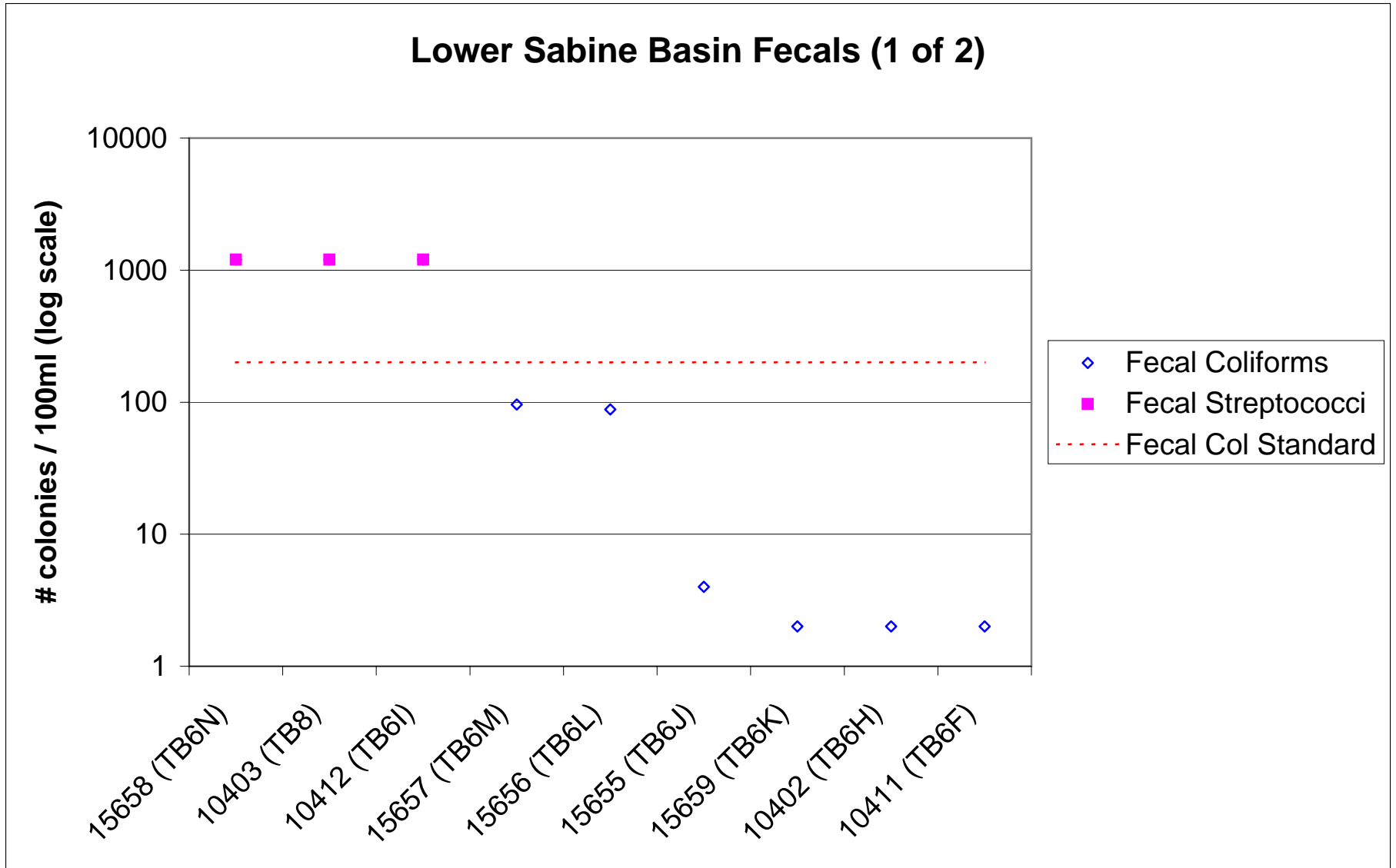
April 2000

Lower Sabine Basin DO / % Saturation (2 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

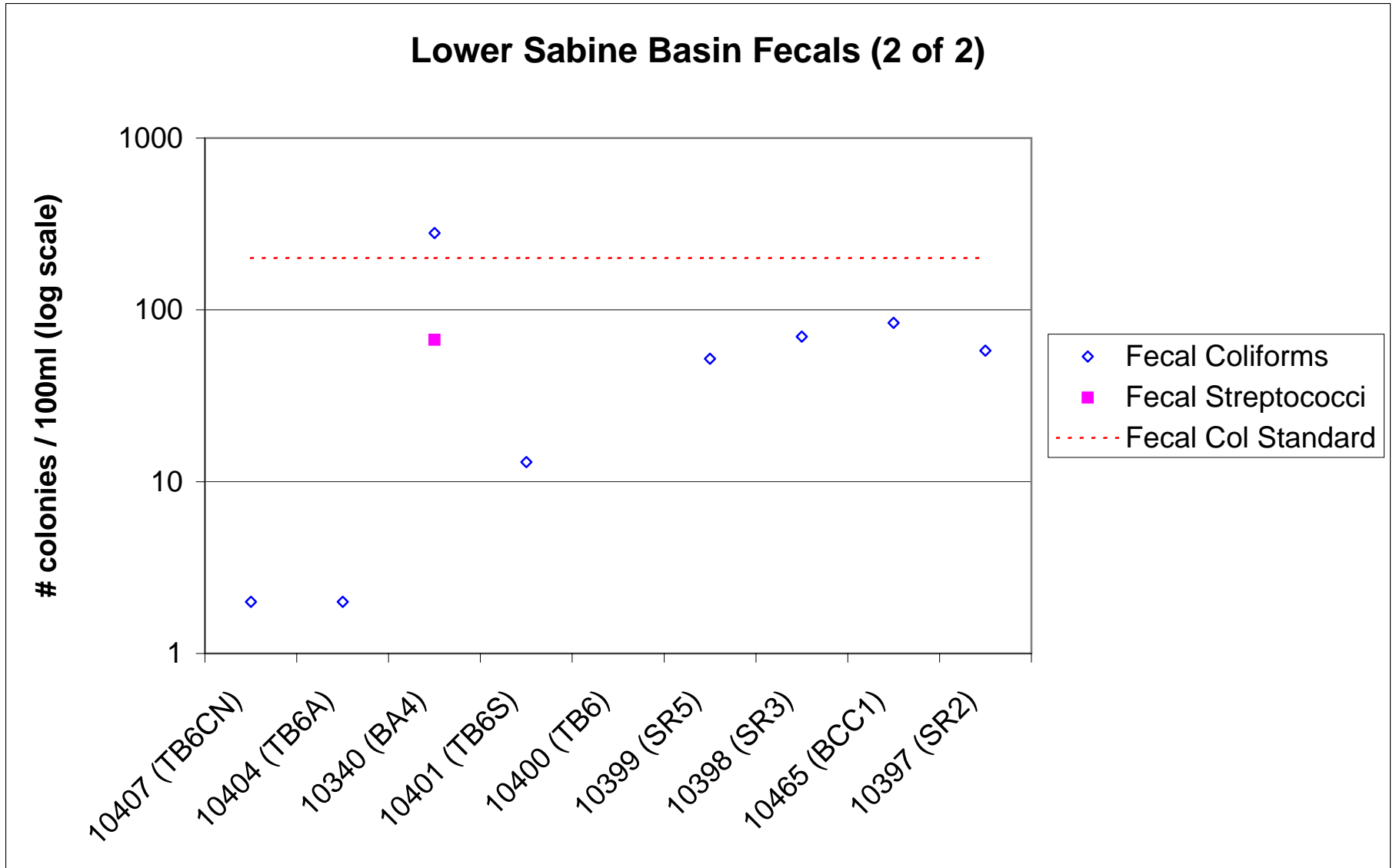
April 2000



Stations without values were below detection limit or not sampled on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

April 2000

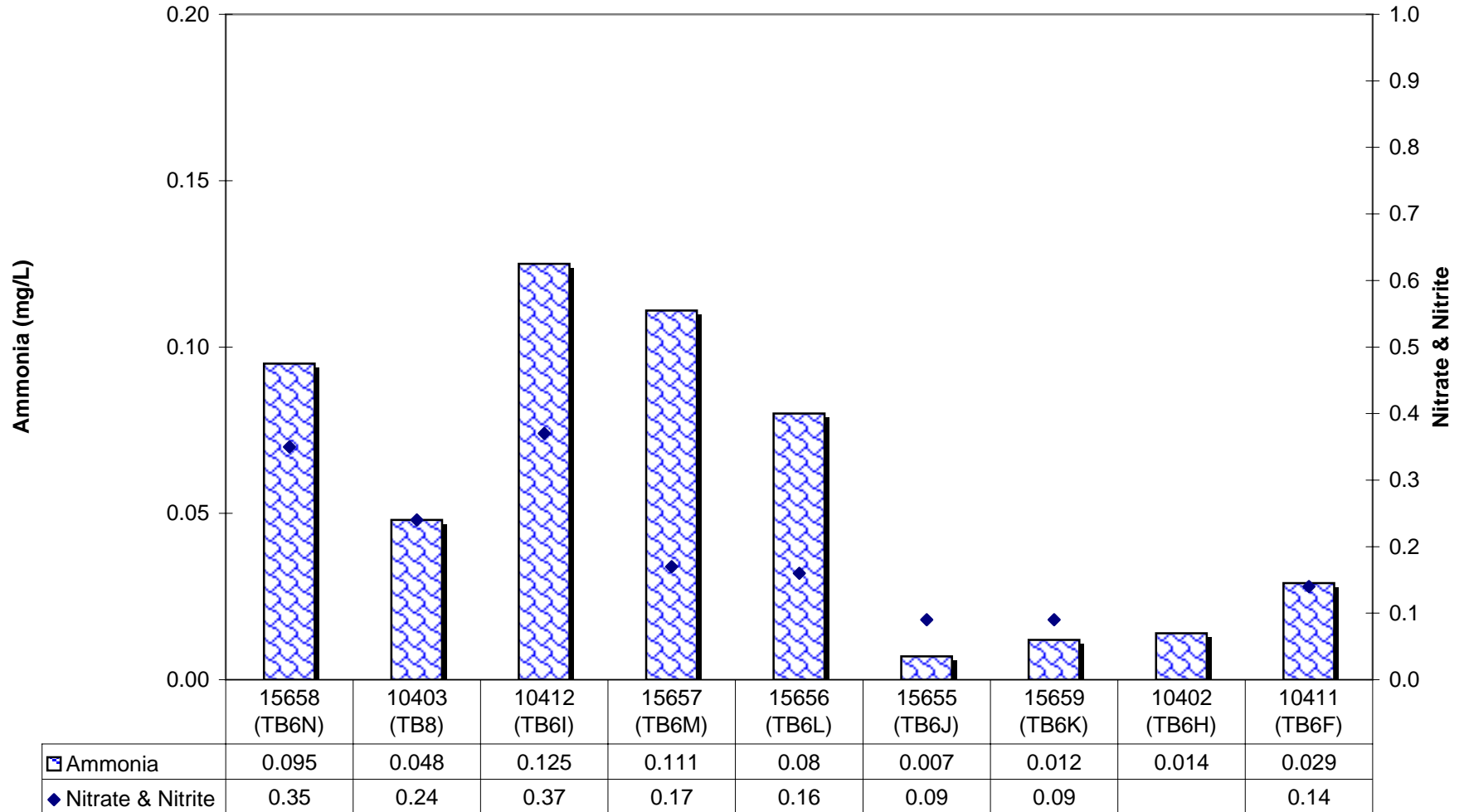


Stations without values were below detection limit or not sampled on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

April 2000

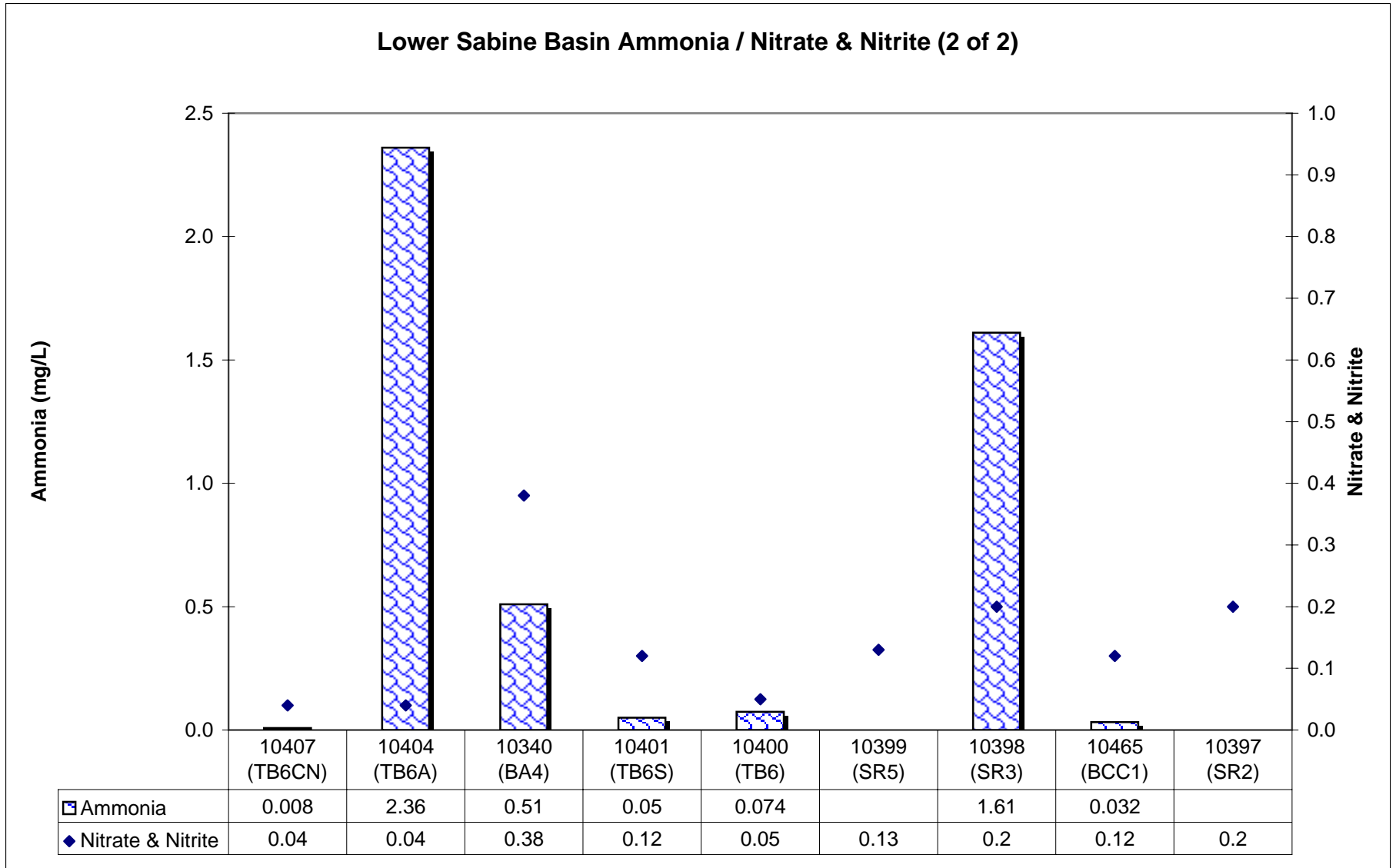
## Lower Sabine Basin Ammonia / Nitrate & Nitrite (1 of 2)



Stations without values were not obtained on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



Stations without values were not obtained on this run (see page 18).

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Profiles

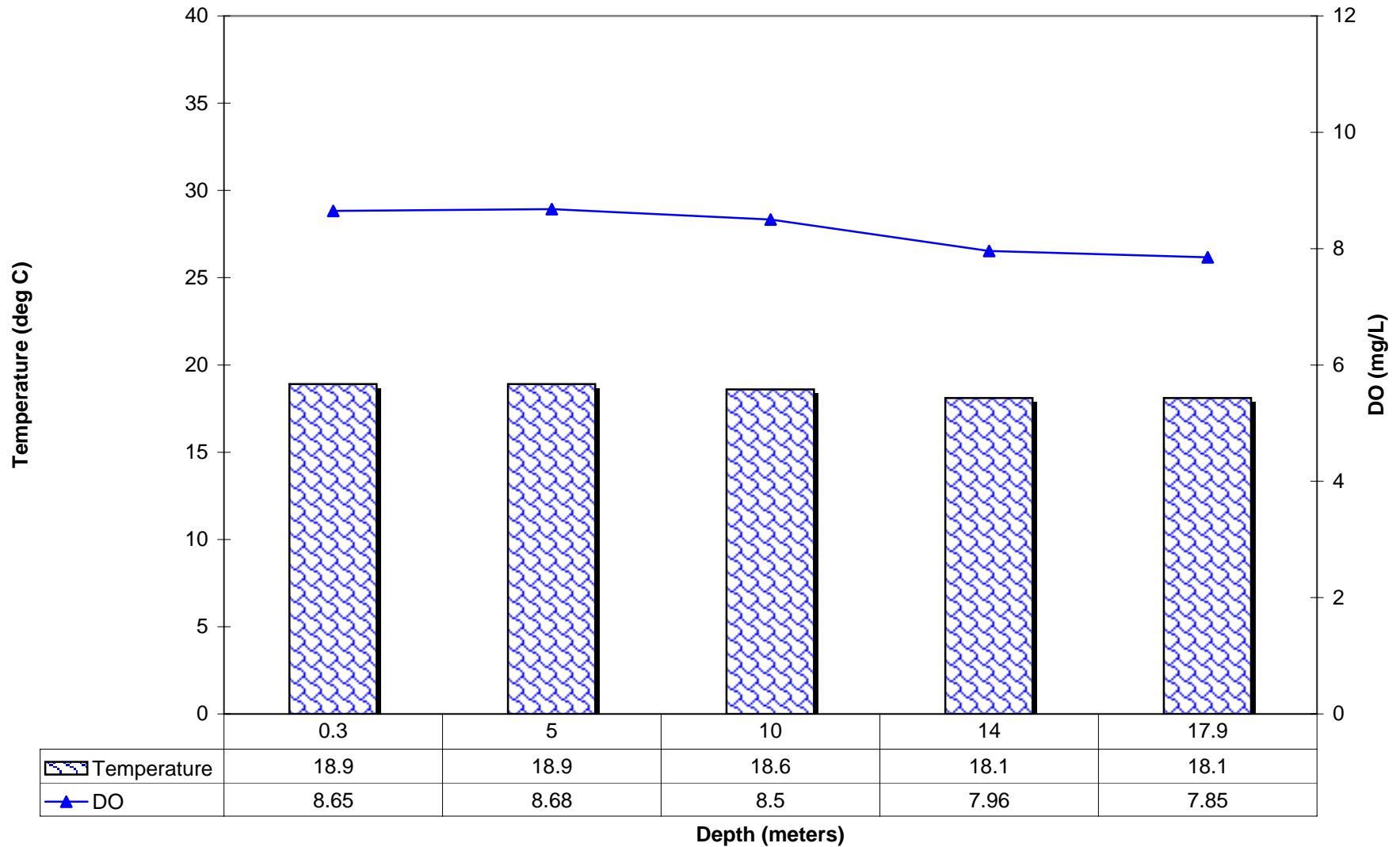
April 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
4/12/00 12:04 PM	4.00	10412 (TB6I)	0.3	16.6	6.77	6.52	66.8	136
			1.8	16.5	6.66	6.47	66.2	138
4/12/00 1:45 PM	4.00	15657 (TB6M)	0.3	17.2	6.31	5.8	60.1	157
			3.4	17.2	6.75	5.86	60.9	158
4/12/00 10:51 AM	4.00	15655 (TB6J)	0.3	19.6	7.07	8.06	88.1	137
			4.2	19.6	7.18	8.21	90.3	142
4/12/00 1:00 PM	4.00	15659 (TB6K)	0.3	19.2	6.96	7.37	79.8	160
			2.5	19.2	6.99	7.3	79.1	161
			5	19.1	7.05	7.3	78.5	165
			9.5	19.1	7.21	7.35	79.7	165
4/12/00 11:48 AM	4.00	10402 (TB6H)	0.3	18.9	7.43	8.65	93.1	175
			5	18.9	7.4	8.68	93.2	176
			10	18.6	7.37	8.5	91.8	174
			14	18.1	7.28	7.96	84.7	178
			17.9	18.1	7.34	7.85	83	177
4/12/00 11:15 AM	4.00	10411 (TB6F)	0.3	20.5	6.78	7.92	87.6	101
			2.5	20.4	6.71	7.89	87.8	101
			4.9	19.3	6.91	5.67	61.7	87
4/12/00 10:04 AM	4.00	10407 (TB6CN)	0.3	21.4	6.58	8.17	92.1	124
			3	19.4	6.36	6.23	64	109
			6.5	18.2	6.6	4.6	47.9	106
4/12/00 10:45 AM	4.00	10404 (TB6A)	0.3	18.1	7.05	8.52	90.1	133
			2.5	18.1	6.93	8.38	88.7	134
			5	18.1	6.94	8.2	86.6	126
			10.5	17.5	6.59	7.49	78.6	144
			15	15.1	6.21	3.85	38.4	136
			20	14.3	6.27	2.95	28.9	145
4/12/00 12:20 PM	3.00	10399 (SR5)	0.3	18.9	6.65	8.26	88.7	123
			1.2	18.9	6.75	8.3	89.3	128
4/12/00 1:15 PM	3.00	10398 (SR3)	0.3	20.4	6.51	7.86	87.1	172
			1.7	20.4	6.55	7.93	87.7	172
4/12/00 2:15 PM	2.00	10397 (SR2)	0.3	20.5	6.37	7.45	82.9	200
			3.1	20.5	6.51	7.4	82.3	196

# SABINE RIVER AUTHORITY OF TEXAS

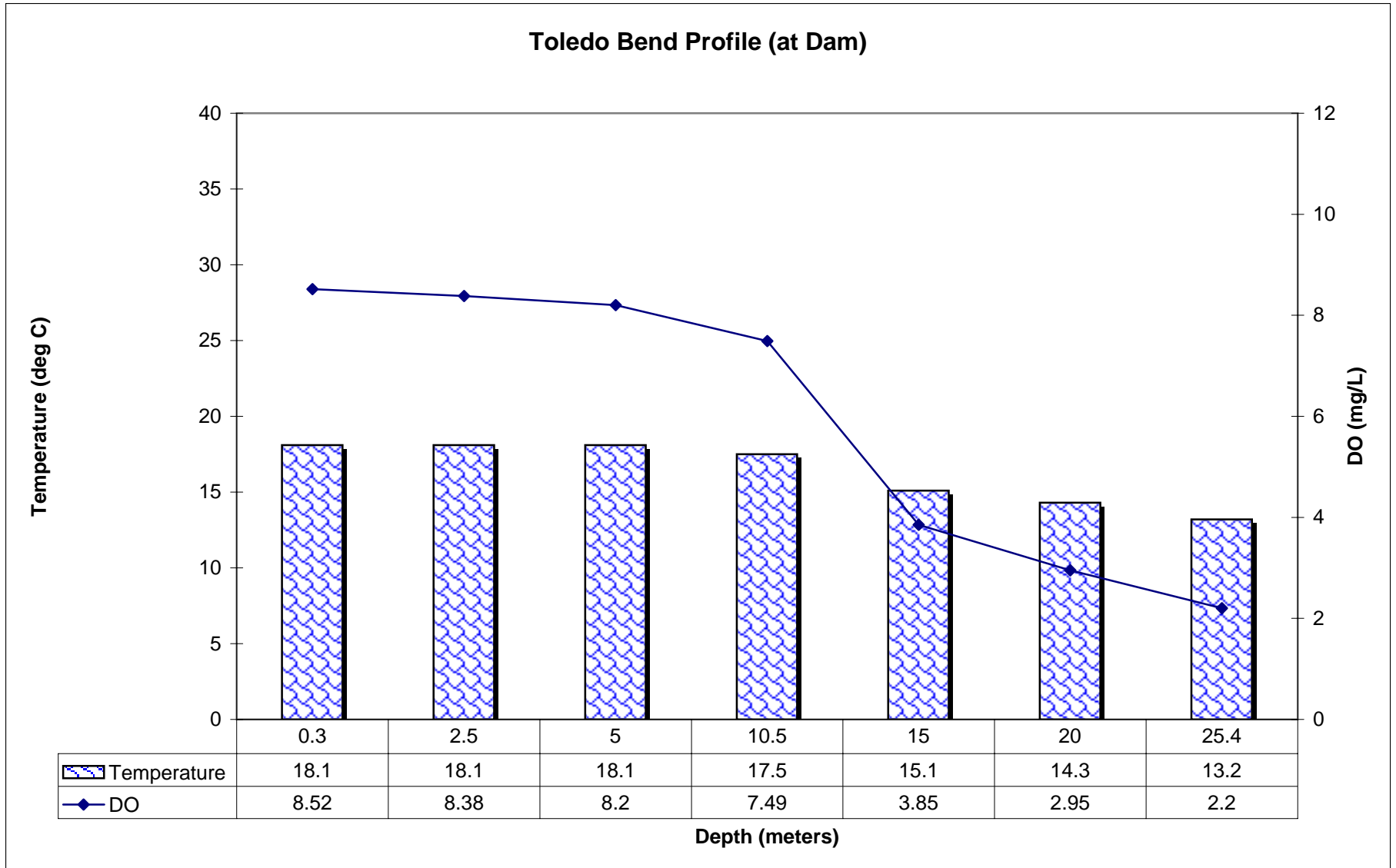
April 2000

## Toledo Bend Profile (at Pendleton Bridge)



# SABINE RIVER AUTHORITY OF TEXAS

April 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Toledo Bend Weather and Reservoir Data

April 2000

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
04/01/2000	167.16	(4.84)	76	53	0.00	0.22	204	405	204
04/02/2000	167.30	(4.70)	73	57	0.97	0.00	204	405	204
04/03/2000	167.85	(4.15)	68	58	1.90	NR	204	405	204
04/04/2000	168.15	(3.85)	65	50	0.36	NR	204	405	204
04/05/2000	168.31	(3.69)	64	38	0.00	0.20	204	405	204
04/06/2000	168.41	(3.59)	75	38	0.00	0.31	204	405	204
04/07/2000	168.48	(3.52)	79	48	0.00	0.30	204	405	204
04/08/2000	168.98	(3.02)	82	55	0.08	0.00	204	405	204
04/09/2000	168.63	(3.37)	82	34	0.00	0.39	204	405	204
04/10/2000	168.66	(3.34)	72	34	0.00	0.23	872	1730	204
04/11/2000	168.74	(3.26)	75	51	0.00	NR	204	405	204
04/12/2000	168.84	(3.16)	82	62	0.00	NR	1153	2287	204
04/13/2000	169.04	(2.96)	64	62	0.75	0.09	204	405	204
04/14/2000	169.20	(2.80)	56	50	0.02	0.01	1559	3092	204
04/15/2000	169.34	(2.66)	59	40	0.00	0.08	204	405	204
04/16/2000	169.40	(2.60)	78	49	0.00	0.14	204	405	204
04/17/2000	169.70	(2.30)	82	61	0.00	0.16	1147	2275	204
04/18/2000	169.72	(2.28)	72	56	0.00	0.24	204	405	204
04/19/2000	169.72	(2.28)	86	61	0.00	0.28	5050	10017	204
04/20/2000	169.65	(2.35)	85	60	0.00	0.16	204	405	204
04/21/2000	169.85	(2.15)	80	54	0.00	0.18	1418	2813	204
04/22/2000	169.75	(2.25)	74	45	0.00	0.33	204	405	204
04/23/2000	169.73	(2.27)	81	45	0.00	0.26	204	405	204
04/24/2000	169.90	(2.10)	76	59	0.85	0.44	1075	2132	204
04/25/2000	169.80	(2.20)	74	53	0.00	0.27	204	405	204
04/26/2000	169.82	(2.18)	74	51	0.00	0.29	976	1936	204
04/27/2000	169.74	(2.26)	81	51	0.00	0.25	1683	3338	204
04/28/2000	169.83	(2.17)	76	54	0.10	0.16	1459	2894	204
04/29/2000	169.76	(2.24)	77	43	0.00	0.35	204	405	204
04/30/2000	169.75	(2.25)	83	51	0.00	0.25	204	405	204
<b>Avg or Tot</b>	169.11	(2.89)	75	51	5.03	5.59	682	40614	

Units	Avg Feet M.S.L.	Avg Feet	Avg Deg. F	Avg Deg. F	Tot Inches	Tot Inches	Avg cfs	Tot Ac. Ft.	cfs
									approx. 8:00 a.m.

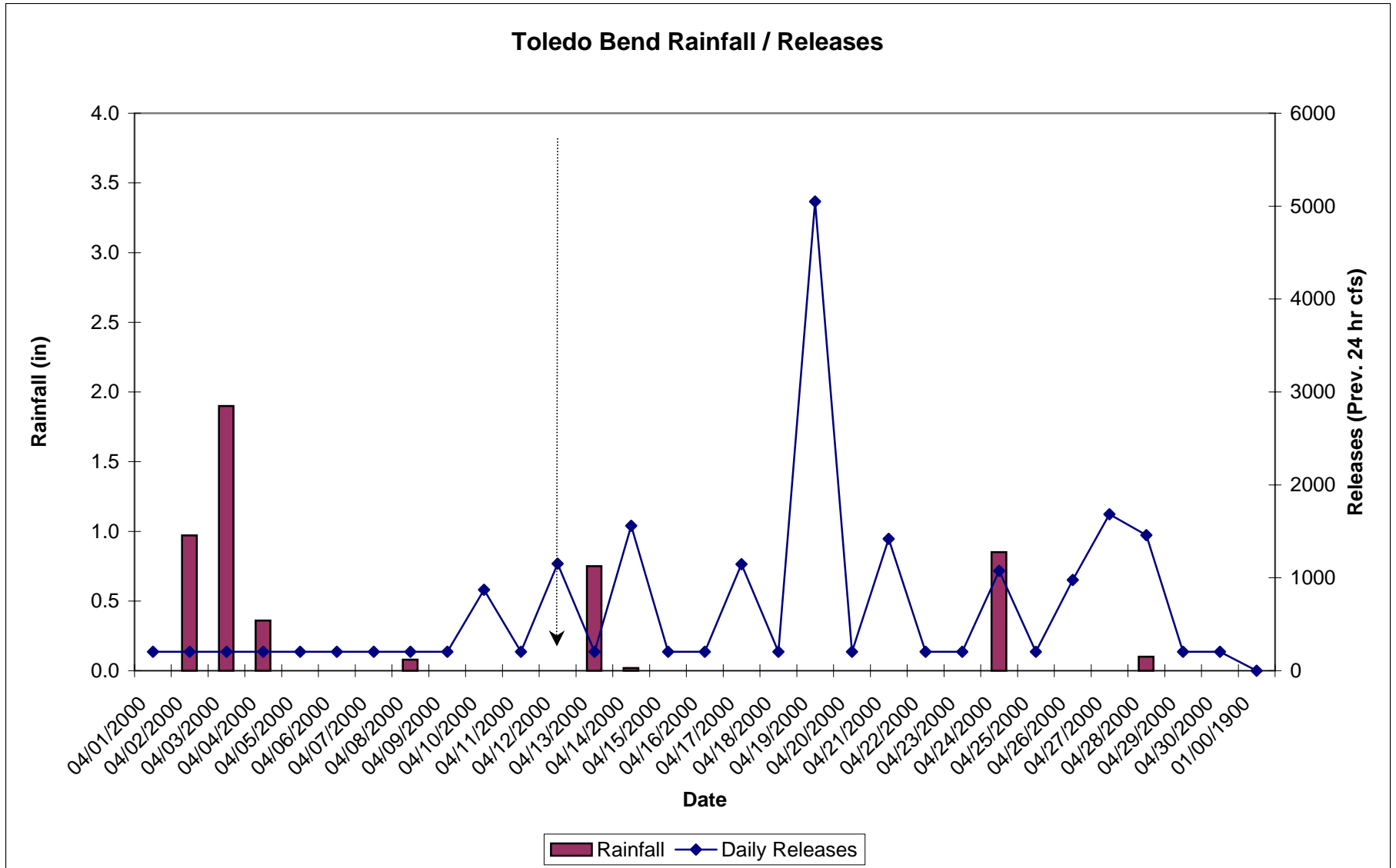
NR: No Reading

TOP: Top of Pool = 172 Feet M.S.L.

Toledo Bend Sampled on 4/12/2000

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Burkeville Weather and River Data

April 2000

Date	Rainfall	Gauge Height	GH - FS	Flow
04/01/2000	*	15.17	(25.83)	1088
04/02/2000	*	12.86	(28.14)	253
04/03/2000	*	OUT	OUT	OUT
04/04/2000	*	17.70	(23.30)	3102
04/05/2000	*	16.04	(24.96)	1828
04/06/2000	*	14.96	(26.04)	1154
04/07/2000	*	13.42	(27.58)	451
04/08/2000	*	13.05	(27.95)	328
04/09/2000	*	12.48	(28.52)	176
04/10/2000	*	12.76	(28.24)	245
04/11/2000	*	14.97	(26.03)	1160
04/12/2000	*	12.77	(28.23)	248
04/13/2000	*	15.02	(25.98)	1188
04/14/2000	*	12.97	(28.03)	304
04/15/2000	*	15.30	(25.70)	1351
04/16/2000	*	12.93	(28.07)	292
04/17/2000	*	12.80	(28.20)	256
04/18/2000	*	14.76	(26.24)	1046
04/19/2000	*	12.75	(28.25)	242
04/20/2000	*	18.45	(22.55)	3745
04/21/2000	*	12.97	(28.03)	304
04/22/2000	*	15.04	(25.96)	1200
04/23/2000	*	12.70	(28.30)	229
04/24/2000	*	12.85	(28.15)	270
04/25/2000	*	14.65	(26.35)	988
04/26/2000	*	12.72	(27.28)	234
04/27/2000	*	13.87	(27.13)	624
04/28/2000	*	14.99	(26.01)	1171
04/29/2000	*	15.09	(25.91)	1228
04/30/2000	*	12.67	(28.33)	221
<b>Avg or Tot</b>		14.09	(26.87)	860

	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 41 feet

TH: Gage height too high to calculate flow

NR: No Reading

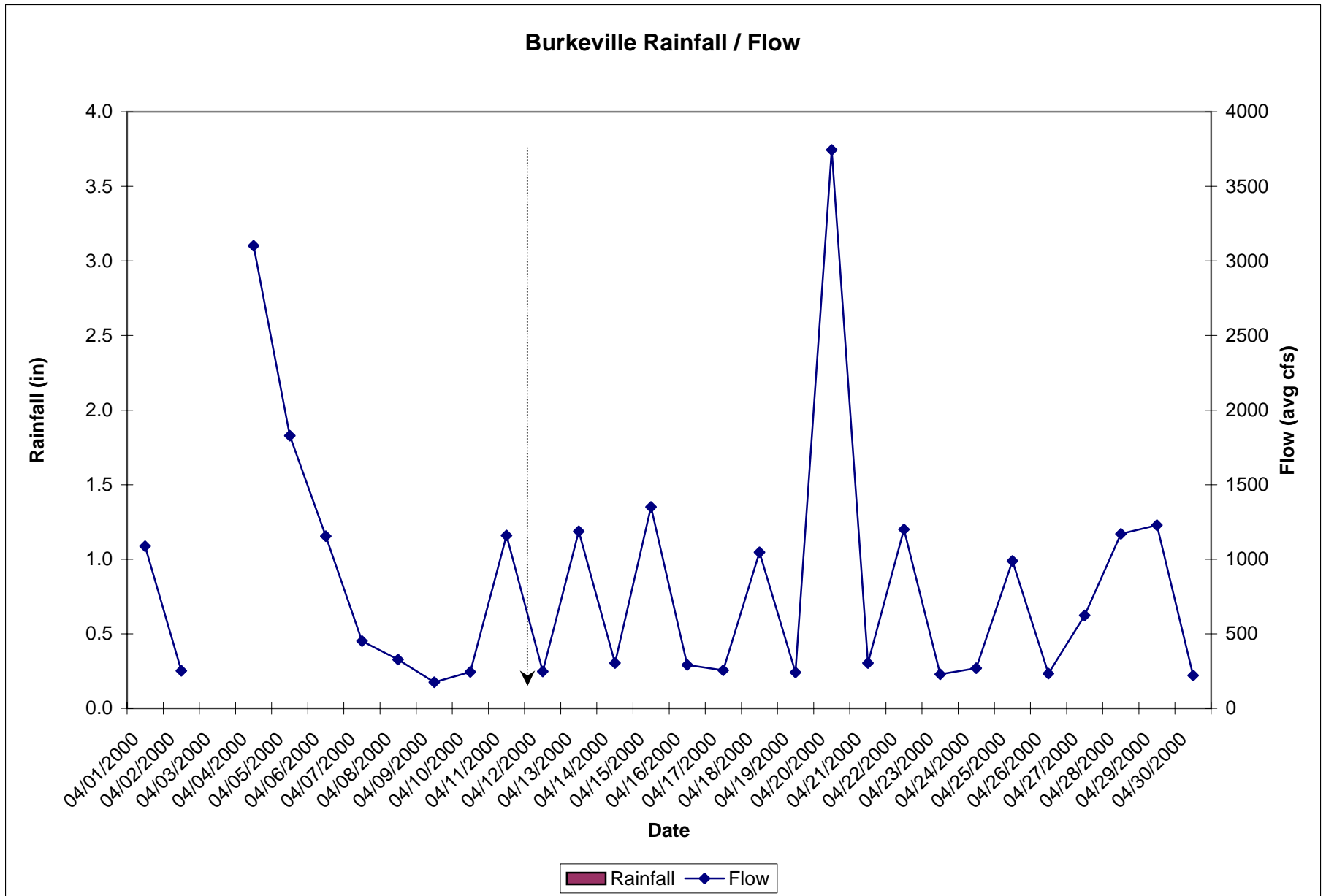
OUT: Gage Out

Lower Sabine Basin Sampled on 4/12/2000

\* Rainfall values not presented due to errors caused by vibrations on the bridge on which the gauge is mounted.

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



Lower Sabine Basin Sampled on 4/12/2000.

Rainfall readings not presented due to vibrations on the bridge on which the gauge is mounted.

# SABINE RIVER AUTHORITY OF TEXAS

## Bon Wier Weather and River Data

April 2000

<b>Date</b>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
04/01/2000	13.33	(16.67)	800	0.00
04/02/2000	14.83	(15.17)	1582	0.06
04/03/2000	13.99	(16.01)	1245	2.29
04/04/2000	18.73	(11.27)	5187	0.40
04/05/2000	19.51	(10.49)	6062	0.00
04/06/2000	18.07	(11.93)	4495	0.00
04/07/2000	16.84	(13.16)	3325	0.00
04/08/2000	15.46	(14.54)	2205	0.00
04/09/2000	14.70	(15.30)	1678	0.00
04/10/2000	14.23	(15.77)	1385	0.00
04/11/2000	13.85	(16.15)	1167	0.00
04/12/2000	14.97	(15.03)	1858	0.00
04/13/2000	13.84	(16.16)	1161	0.67
04/14/2000	15.15	(14.85)	1983	0.00
04/15/2000	14.07	(15.93)	1291	0.00
04/16/2000	15.27	(14.73)	2067	0.00
04/17/2000	13.77	(16.23)	1123	0.00
04/18/2000	13.44	(16.56)	950	0.00
04/19/2000	14.63	(15.37)	1633	0.00
04/20/2000	13.43	(16.57)	945	0.00
04/21/2000	17.04	(12.96)	3505	0.00
04/22/2000	13.86	(16.14)	1172	0.00
04/23/2000	14.79	(15.21)	1737	0.00
04/24/2000	13.34	(16.66)	900	0.08
04/25/2000	13.30	(16.70)	881	0.00
04/26/2000	14.63	(15.37)	1633	0.00
04/27/2000	13.36	(16.64)	910	0.00
04/28/2000	14.13	(15.87)	1325	0.00
04/29/2000	14.86	(15.14)	1784	0.00
04/30/2000	14.83	(15.17)	1764	0.00
<b>Avg or Tot</b>	14.88	(15.13)	1925	3.50

Units	Avg Feet	Avg Feet	Avg	Tot Inches
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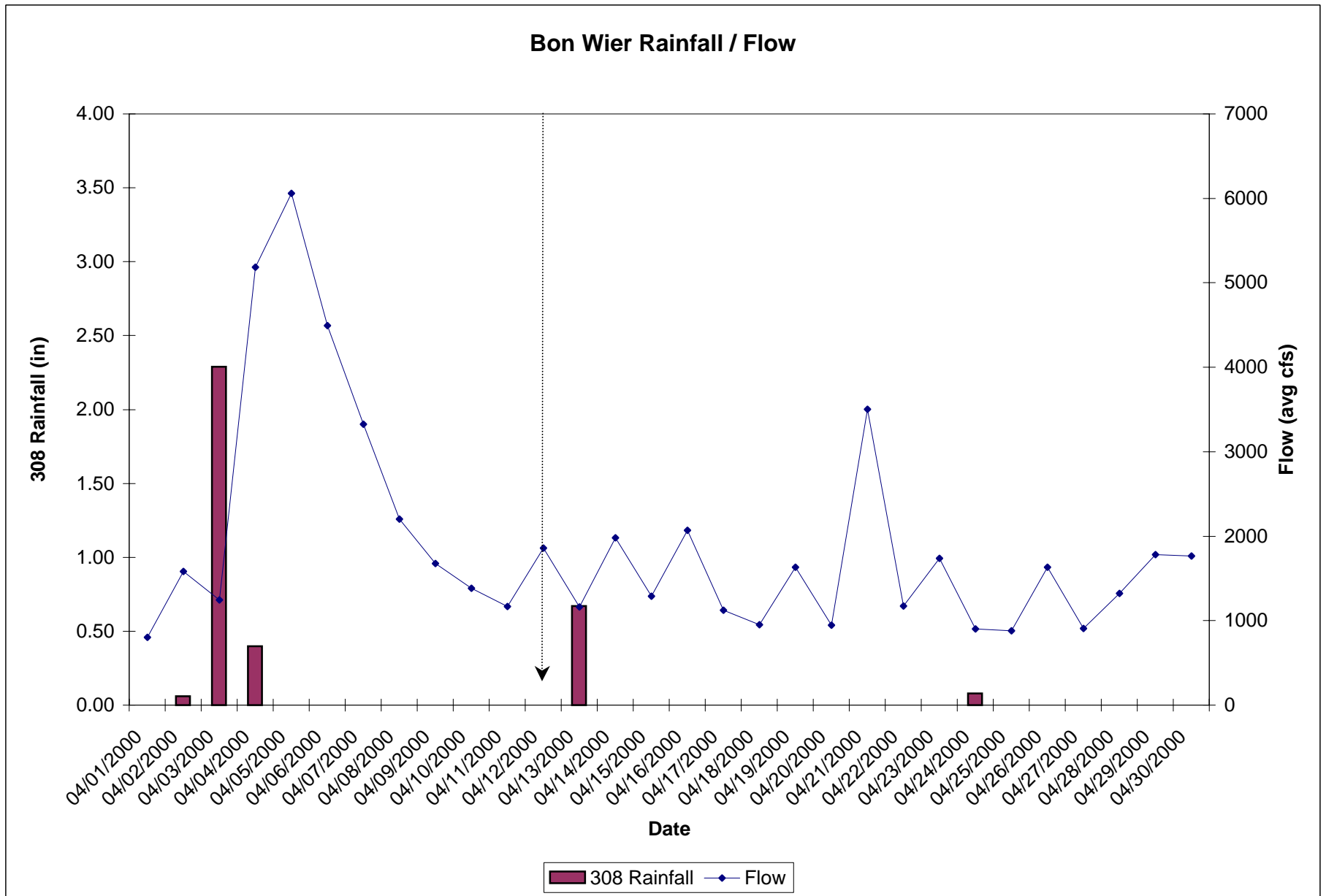
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 4/12/2000

# Sabine River Authority of Texas

April 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

April 2000

<b>Date</b>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow cfs</i>	<i>Flow acft</i>	<i>Flow avg</i>	<i>309 Rainfall</i>
04/01/2000	15.61	(8.39)	1660	3293	1660	0.00
04/02/2000	15.49	(8.51)	1613	3199	1637	0.03
04/03/2000	15.91	(8.09)	1775	3521	1683	2.39
04/04/2000	17.00	(7.00)	2320	4602	1842	0.58
04/05/2000	19.17	(4.83)	3760	7458	2226	0.00
04/06/2000	21.10	(2.90)	6087	12073	2869	0.00
04/07/2000	21.76	(2.24)	7159	14200	3482	0.00
04/08/2000	21.60	(2.40)	6874	13634	3906	0.00
04/09/2000	20.40	(3.60)	5155	10225	4045	0.00
04/10/2000	18.59	(5.41)	3314	6573	3972	0.00
04/11/2000	17.19	(6.81)	2429	4818	3831	0.00
<b>04/12/2000</b>	<b>16.30</b>	<b>(7.70)</b>	<b>1958</b>	<b>3884</b>	<b>3675</b>	<b>0.00</b>
04/13/2000	16.52	(7.48)	2069	4104	3552	1.74
04/14/2000	16.38	(7.62)	1998	3963	3441	0.00
04/15/2000	16.46	(7.54)	2039	4044	3347	0.00
04/16/2000	16.52	(7.48)	2069	4104	3267	0.00
04/17/2000	16.86	(7.14)	2246	4455	3207	0.00
04/18/2000	16.45	(7.55)	2033	4032	3142	0.00
04/19/2000	15.43	(8.57)	1591	3156	3060	0.00
04/20/2000	15.52	(8.48)	1625	3223	2989	0.00
04/21/2000	15.60	(8.40)	1656	3285	2925	0.00
04/22/2000	18.44	(5.56)	3212	6371	2938	0.00
04/23/2000	17.75	(6.25)	2764	5482	2931	0.00
04/24/2000	16.40	(7.60)	2008	3983	2892	0.13
04/25/2000	15.70	(8.30)	1694	3360	2844	0.00
04/26/2000	14.78	(9.22)	1354	2686	2787	0.00
04/27/2000	15.31	(8.69)	1546	3067	2741	0.00
04/28/2000	15.44	(8.56)	1595	3164	2700	0.00
04/29/2000	15.33	(8.67)	1553	3080	2661	0.00
04/30/2000	16.13	(7.87)	1873	3715	2634	0.00
<b>Avg or Tot</b>	<b>17.04</b>	<b>(6.96)</b>	<b>2634</b>	<b>156754</b>		<b>4.87</b>

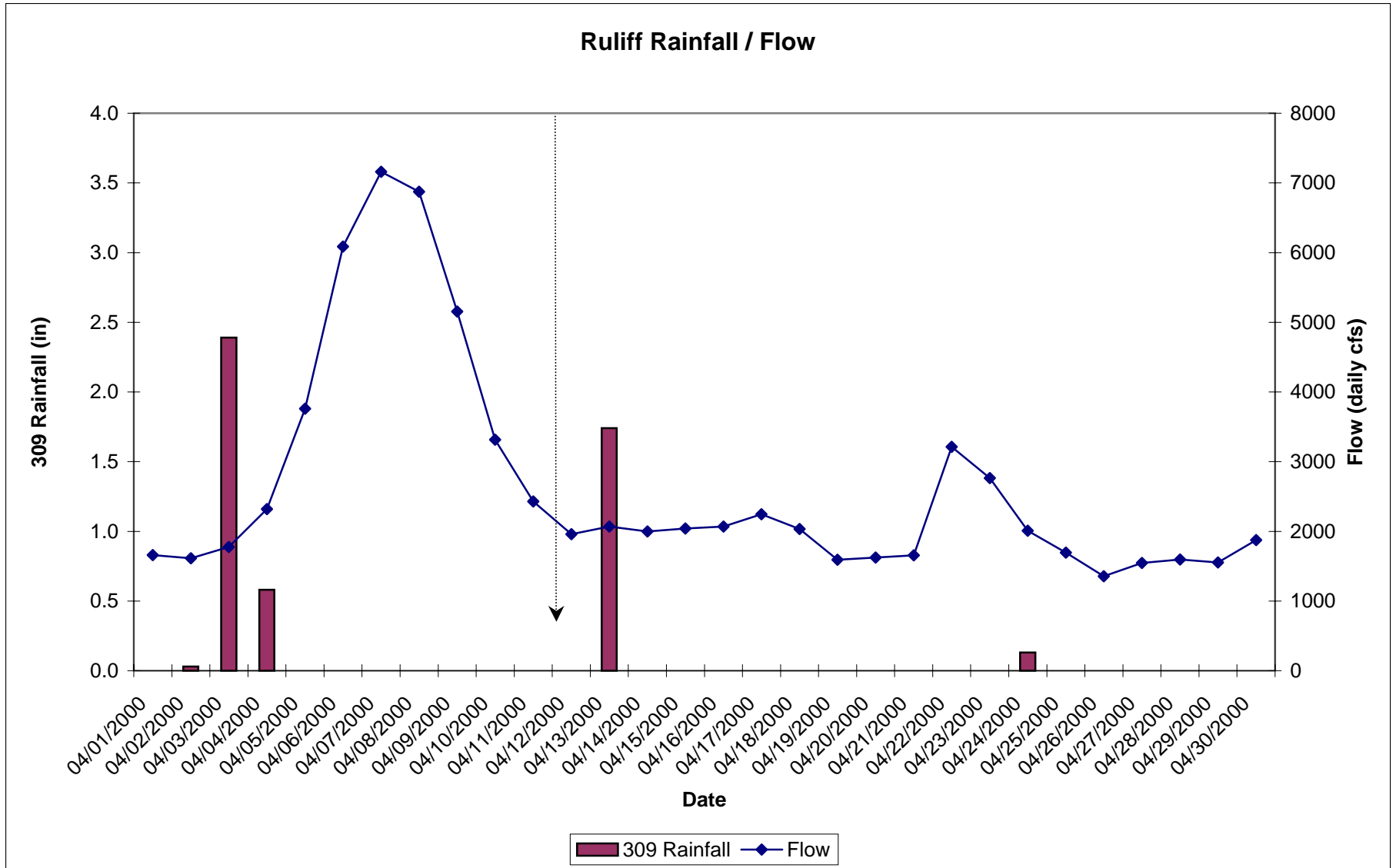
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 4/12/2000

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



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# *Current WQMP Stations*

## *Tidal Sabine Basin*

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
1.05	0501 15653 (ICW1)	INTERCOASTAL WATERWAY
1.01	0501 15654 (BB1)	BLACK BAYOU
1.00	0501 10395 (SR1)	SABINE RIVER 12 KM N OF IH10
1.00	0501 10394 (SRT2)	SABINE RIVER AT IH 10
1.00	0501 10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Report

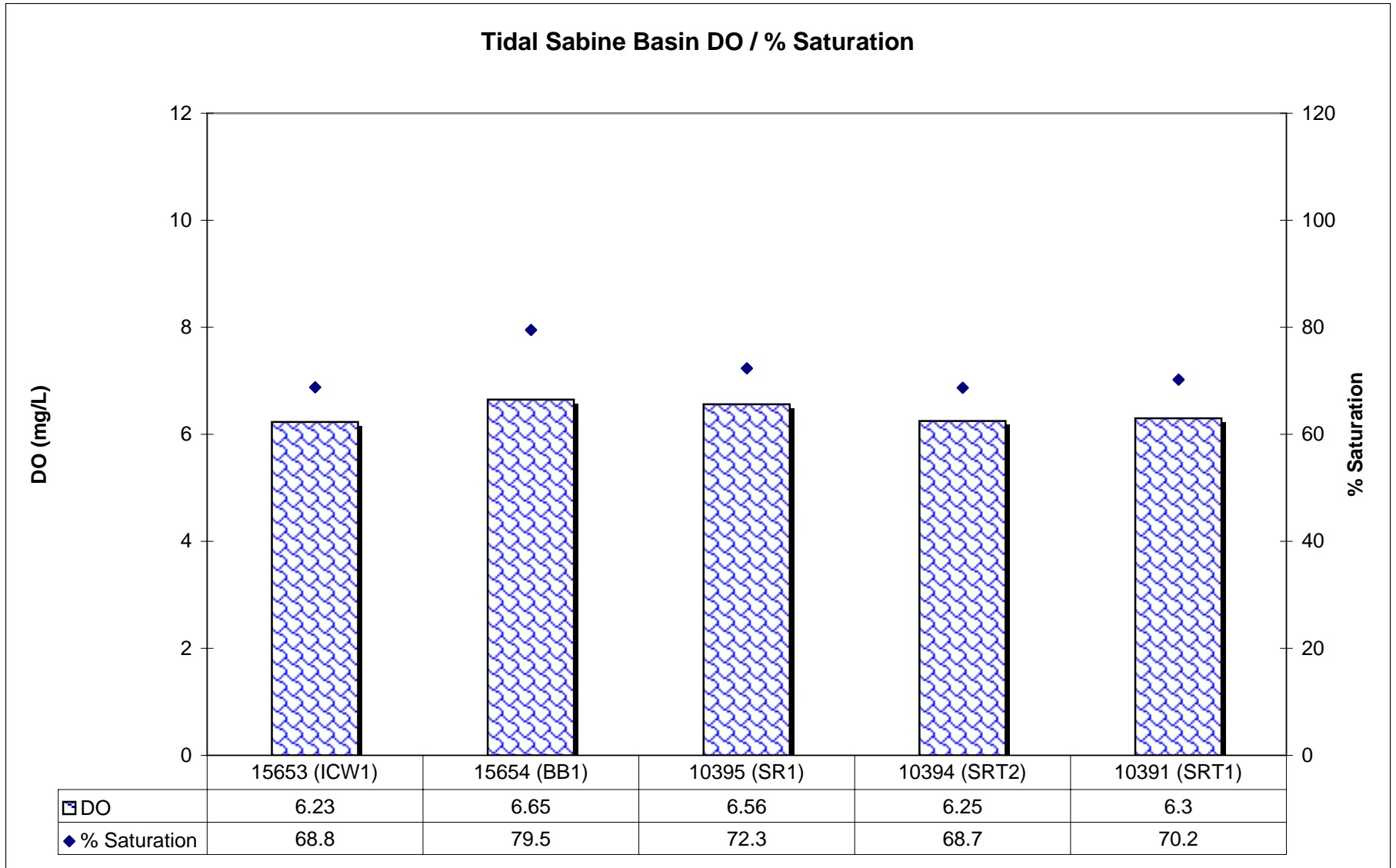
April 2000

Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
4/13/00 10:30 AM	1.05	15653 (ICW1)	19.6	6.73	6.23	68.8	3670	2	0.33	63.1	> 1200	*	*	< 0.001	0.86	< 0.02	< 1	*	*	1070	152
4/13/00 10:55 AM	1.01	15654 (BB1)	19.5	6.92	6.65	79.5	10960	6	0.59	16.3	120	*	*	3.6	1.35	1.66	< 1	*	*	3260	432
4/13/00 9:19 AM	1.00	10395 (SR1)	20.1	6.41	6.56	72.3	208	*	0.42	45.7	> 1200	*	*	0.102	0.16	< 0.02	12	*	*	14.5	38.7
4/13/00 9:40 AM	1.00	10394 (SRT2)	19.9	6.27	6.25	68.7	465	*	0.39	35.6	960	*	*	0.11	*	< 0.02	10	*	*	42	36.6
4/13/00 11:06 AM	1.00	10391 (SRT1)	20.1	6.87	6.3	70.2	4248	2	0.42	38.4	> 1200	*	*	< 0.001	0.82	< 0.02	< 1	*	*	1210	178

\*: Not sampled on this run

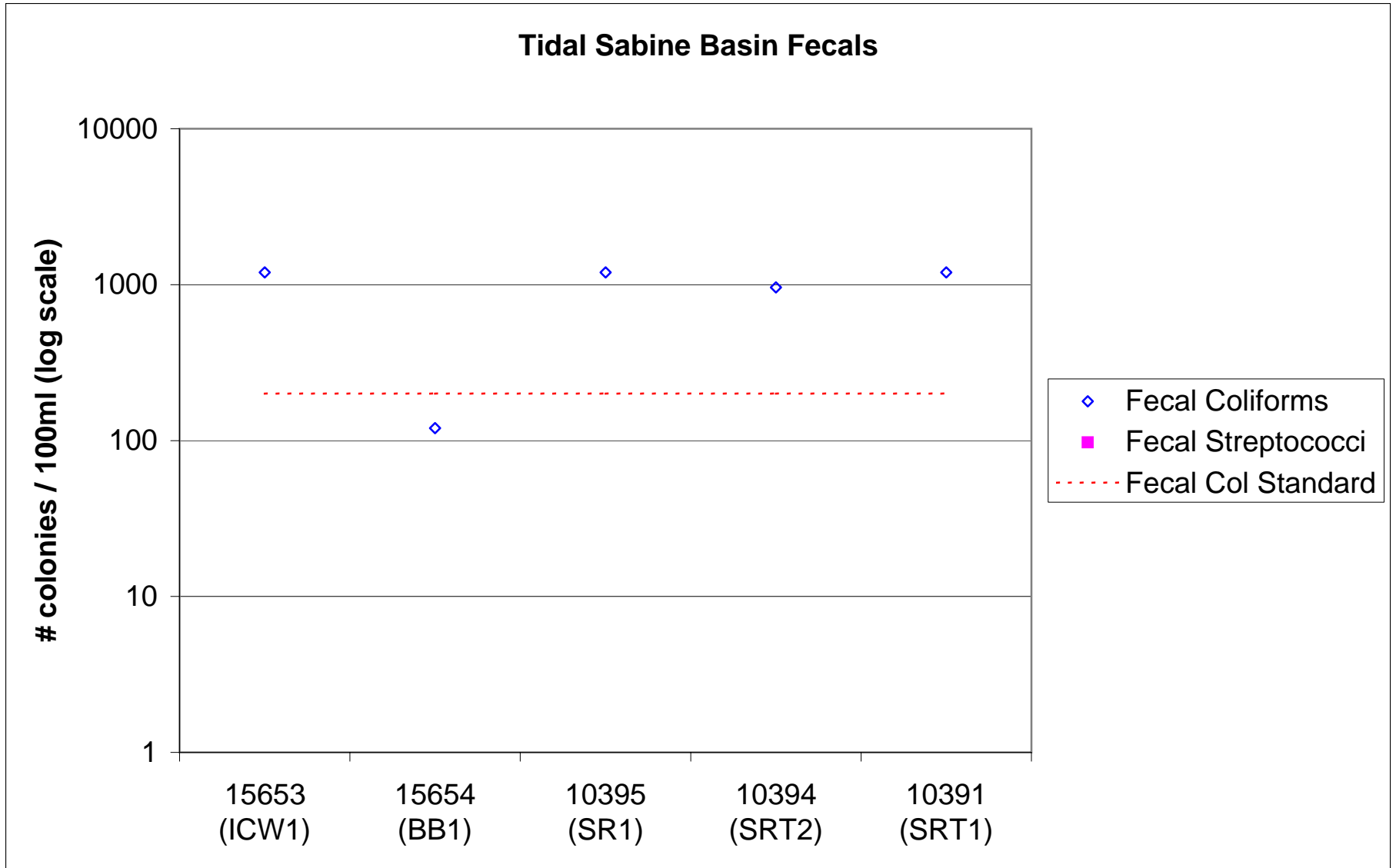
# SABINE RIVER AUTHORITY OF TEXAS

April 2000



# SABINE RIVER AUTHORITY OF TEXAS

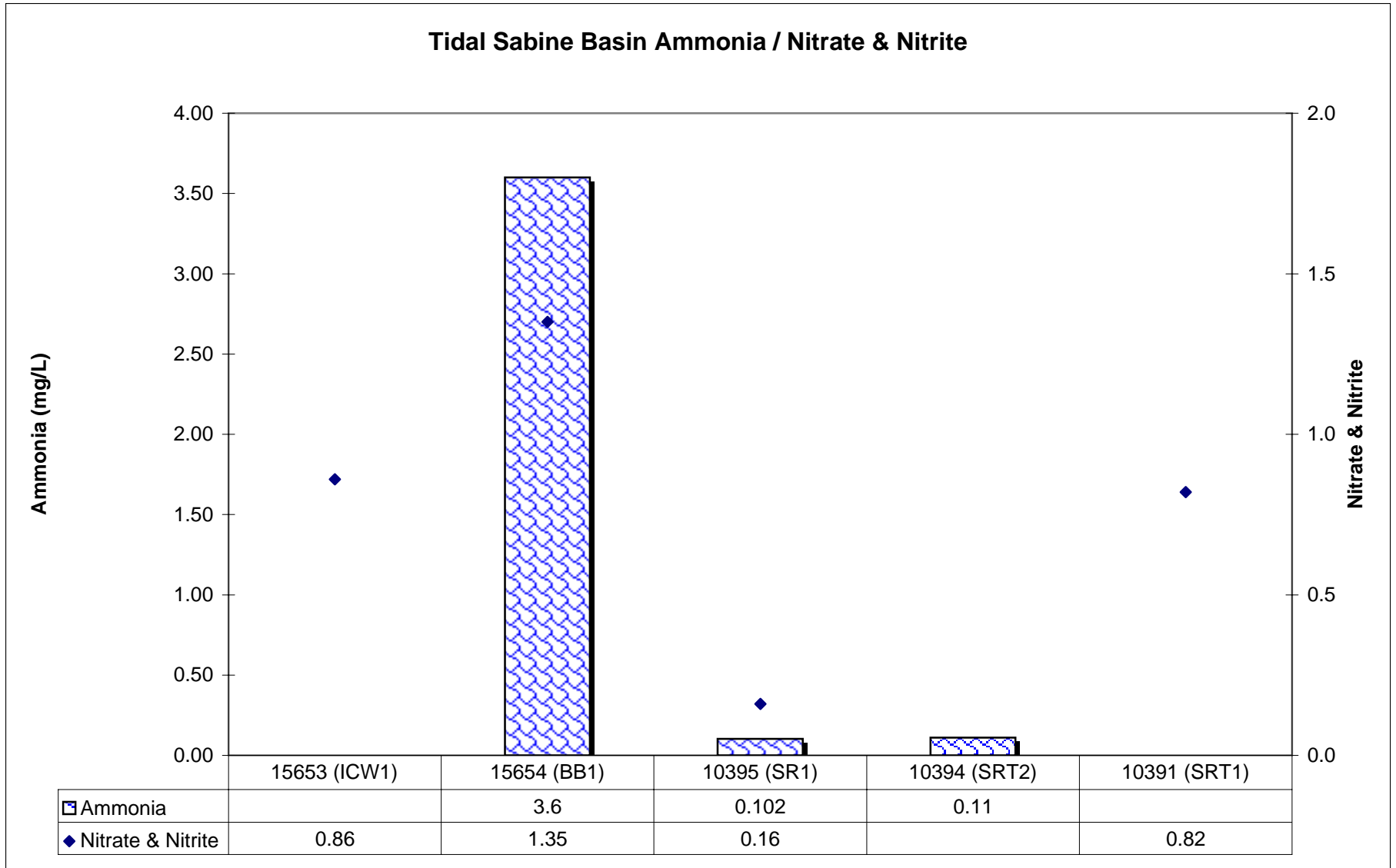
April 2000



Stations without values were below detection limit or not sampled on this run (see page 38).

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



Stations without values were below detection limit on this run (see page 40).

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Profiles

April 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094	Salinity ppt 00480
4/13/00 10:30 AM	1.05	15653 (ICW1)	0.3	19.6	6.73	6.23	68.8	3670	2
			4.9	19.6	7.01	6.35	69.8	3849	2
4/13/00 10:55 AM	1.01	15654 (BB1)	0.3	19.5	6.92	6.65	79.5	10960	6
			5.2	19.7	6.96	6.7	76	10840	6
4/13/00 9:19 AM	1.00	10395 (SR1)	0.3	20.1	6.41	6.56	72.3	208	*
			3.8	20.1	6.62	6.51	71.9	208	*
4/13/00 9:40 AM	1.00	10394 (SRT2)	0.3	19.9	6.27	6.25	68.7	465	<1
			3	19.8	6.35	6.11	67.8	492	<1
			7.4	19.7	6.69	5.81	64.1	635	<1
			8.4	20.3	6.59	3.39	39.9	16980	10
4/13/00 11:06 AM	1.00	10391 (SRT1)	0.3	20.1	6.87	6.3	70.2	4248	2
			5	20.3	7.41	6.3	71.9	8688	5
			9.6	20.4	7.58	5.59	69.5	29720	18

\*: Not Sampled on this Run

# SABINE RIVER AUTHORITY OF TEXAS

## Orange Weather and River Data

April 2000

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
04/01/2000	0.00	2.10	(1.90)	78	54	61	0.00
04/02/2000	0.00	2.22	(1.78)	77	61	73	0.02
04/03/2000	1.69	1.78	(2.22)	79	60	60	2.87
04/04/2000	0.36	0.45	(3.55)	66	44	44	0.69
04/05/2000	0.00	0.54	(3.46)	66	41	41	0.00
04/06/2000	0.00	1.29	(2.71)	72	41	51	0.00
04/07/2000	0.00	1.09	(2.91)	77	51	67	0.00
04/08/2000	0.00	0.53	(3.47)	79	59	60	0.00
04/09/2000	0.00	0.04	(3.96)	69	37	37	0.00
04/10/2000	0.00	1.37	(2.63)	66	37	55	0.00
04/11/2000	0.00	1.65	(2.35)	72	55	64	0.00
04/12/2000	0.00	1.21	(2.73)	79	64	65	0.00
04/13/2000	3.13	1.30	(2.70)	71	54	55	4.00
04/14/2000	0.00	1.26	(2.80)	63	53	54	0.00
04/15/2000	0.00	1.61	(2.39)	62	49	53	0.00
04/16/2000	0.00	1.99	(2.01)	77	53	64	0.00
04/17/2000	0.00	1.66	(2.34)	80	64	64	0.00
04/18/2000	0.00	1.33	(2.67)	87	60	61	0.00
04/19/2000	0.00	1.29	(2.71)	84	60	72	0.00
04/20/2000	0.00	1.50	(2.50)	82	71	72	0.00
04/21/2000	0.00	0.58	(3.42)	85	53	53	0.00
04/22/2000	0.00	0.24	(3.76)	81	49	50	0.00
04/23/2000	0.00	1.51	(2.49)	77	49	63	0.00
04/24/2000	0.16	1.88	(2.12)	74	64	64	0.43
04/25/2000	0.01	0.52	(3.48)	80	56	56	0.00
04/26/2000	0.00	1.15	(2.85)	80	54	54	0.00
04/27/2000	0.00	1.24	(2.76)	84	54	59	0.00
04/28/2000	0.00	1.36	(2.64)	83	59	65	0.00
04/29/2000	0.00	1.06	(2.94)	85	56	56	0.00
04/30/2000	0.00	1.94	(2.06)	83	56	67	0.00
<b>Avg or Tot</b>	5.35	1.26	(2.74)	77	54	59	8.01

Units	Tot Inches	Avg Feet	Avg Feet	Avg Deg F	Avg Deg F	Avg Deg F	Tot Inches
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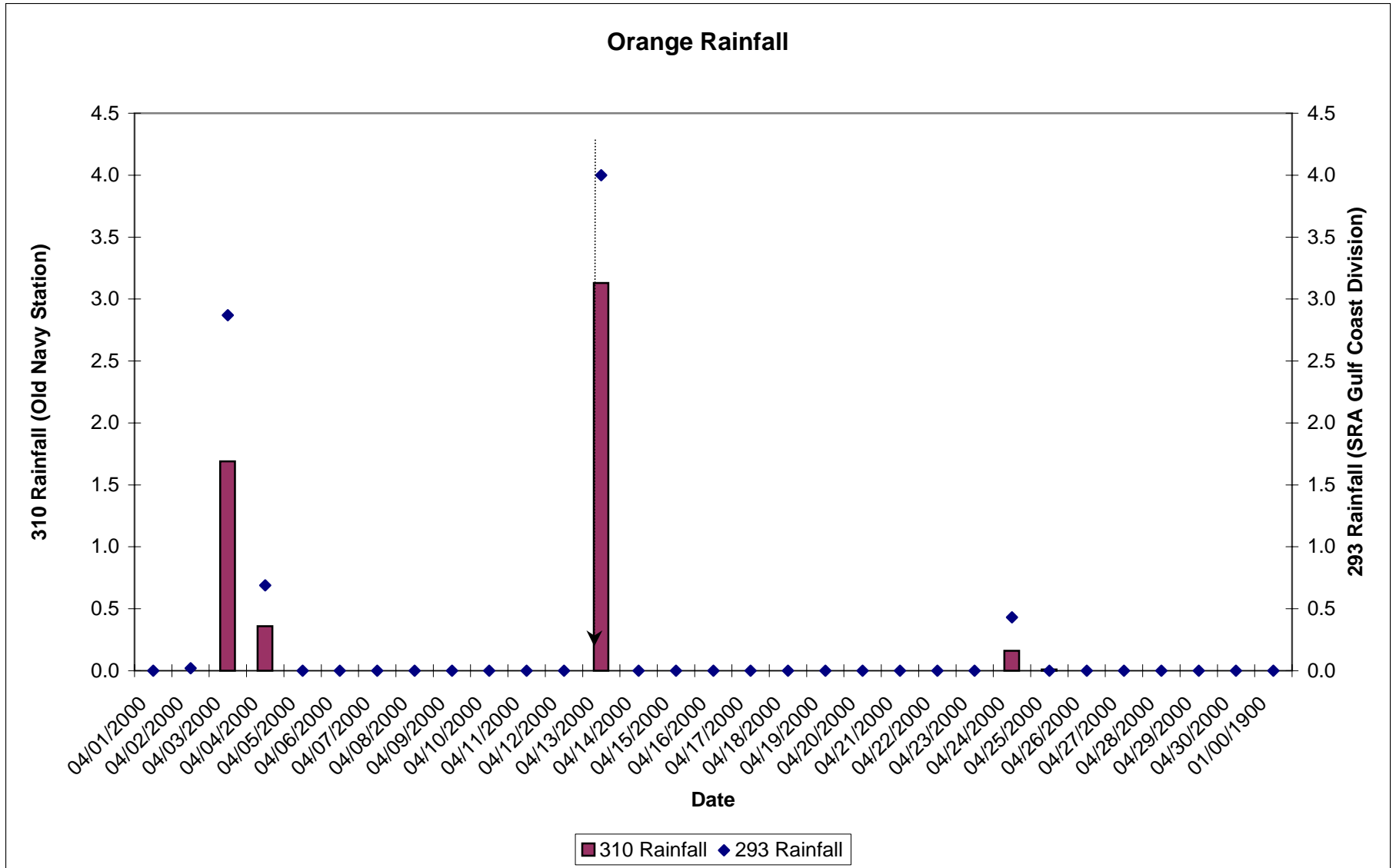
Appx. 8 am

310 Rainfall: Old Navy Base, City of Orange  
 293: SRA Gulf Coast Division Office, Northern Orange County  
 FS: Flood Stage = 4 Feet  
 OUT: Gauge Out

Tidal Sabine Basin Sampled on 4/13/2000

# SABINE RIVER AUTHORITY OF TEXAS

April 2000



Tidal Sabine Basin Sampled on 4/13/2000