
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Summary for March 2000. Water quality sampling was performed March 28 through March 30. Daytime high air temperatures during the seven days prior to the sampling dates were mostly in the 70's and 80's in the Upper Basin and in the 60's and 70's in the Lower Basin. Nighttime lows in the Upper Basin were mostly in the 50's and 60's. Low temperatures in the Lower Basin were mostly in the 50's with a few nights in the 30's just prior to the sample run. A number of small rainfall events were recorded throughout the watershed during March.

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

For the March sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. The most recent precipitation was about a quarter inch of rain three days prior to sampling. Water temperature and dissolved oxygen profiles gradually increased from bottom to surface at Lake Tawakoni and Lake Fork, indicating weak thermal stratification. Most of the reservoir sites and one river site (SR19) had dissolved oxygen values in excess of 100%. Fecal coliform levels were slightly elevated at three river sites.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

March WQM sampling results were indicative of high water quality at most sites. Profiles taken at deep-water stations on the reservoir did not exhibit thermal stratification. Stations TB6N, TB6M, TB6L, TB6I, TB8 and BA4 had fecal counts above stream standards. Corresponding high streptococcus counts were detected at sites BA4 and TB6N. A significant rainfall a few days prior to the sampling event likely contributed to the elevated fecal counts. Compared to other sites analyzed during this sampling event, higher sulfate, chloride, TOC, and nitrate/nitrite levels were observed at Station BA4. 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. All values measured were within stream standards criteria. Salinity was detected 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). If you have any questions or comments concerning this report, please contact:

- *Upper Sabine Basin*
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Water Quality Monitoring Program

March 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

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 Upper Sabine Basin Report
 March 2000

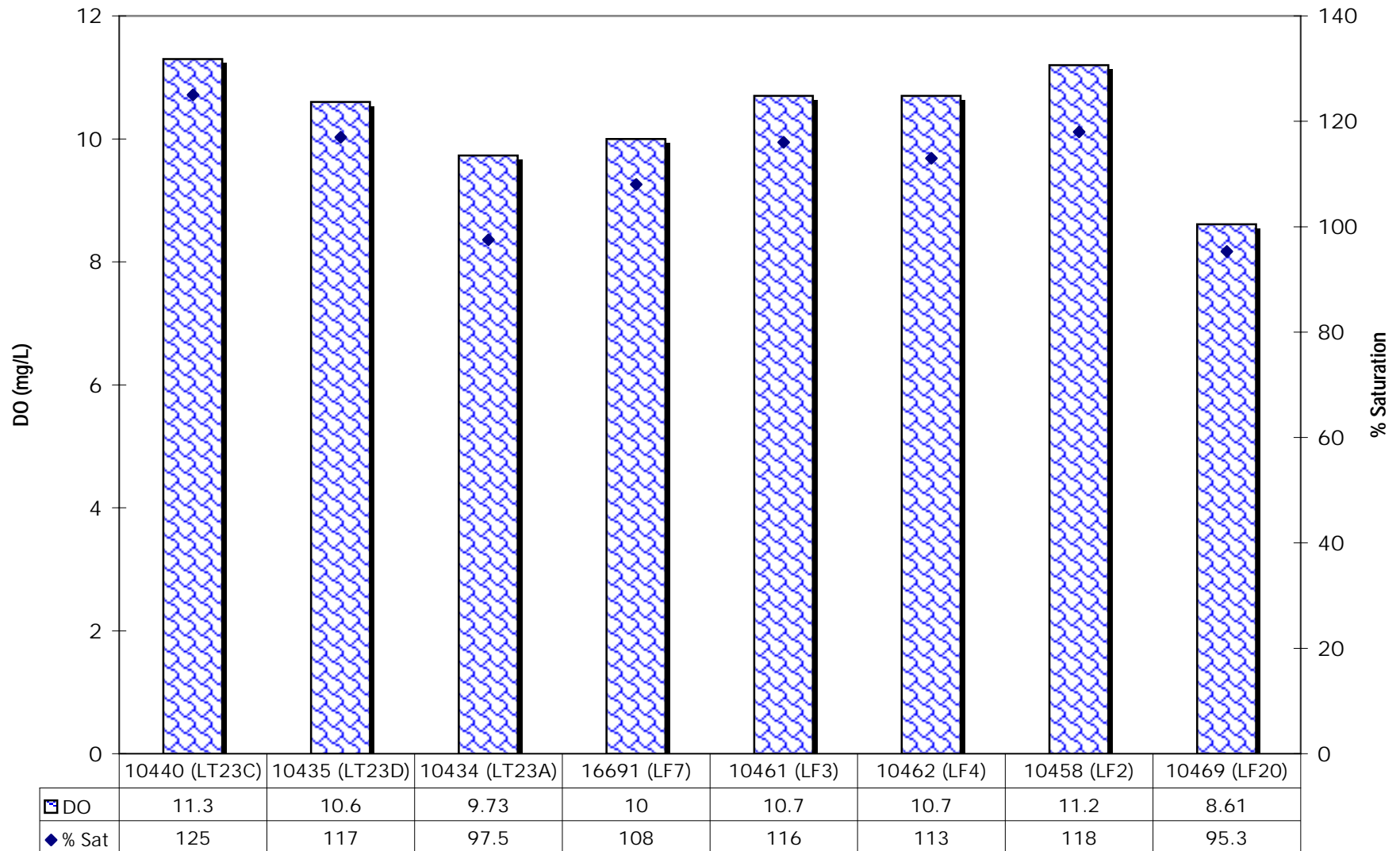
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
3/28/00 12:30 PM	7.00	10440 (LT23C)	20.5	8.71	11.3	125	196	*	0.39	22.4	< 2	*	*	*	< 0.02	*	6	*	*	5.5	12.8
3/28/00 11:46 AM	7.00	10435 (LT23D)	19.9	8.58	10.6	117	200	*	0.45	21.2	68	*	*	*	< 0.02	*	6	*	*	6	14.6
3/28/00 11:05 AM	7.00	10434 (LT23A)	15.5	8.01	9.73	97.5	190	*	0.94	5.92	< 2	9.73	*	*	0.06	*	5	*	*	5	11.7
3/28/00 9:53 AM	6.12	16691 (LF7)	18.9	7.74	10	108	160	*	1	10.2	5	*	*	*	< 0.02	*	6	*	*	13.9	27.6
3/28/00 8:50 AM	6.12	10461 (LF3)	18.8	8.17	10.7	116	158	*	1.5	2.83	< 2	*	*	*	< 0.02	*	6	*	*	14.4	22.3
3/28/00 9:24 AM	6.12	10462 (LF4)	17.8	8.2	10.7	113	157	*	1.06	3.01	< 2	*	*	*	< 0.02	*	6	*	*	13.9	22.6
3/28/00 8:02 AM	6.12	10458 (LF2)	17.8	7.64	11.2	118	163	*	1.5	2.36	< 2	*	*	*	< 0.02	*	6	*	*	13.4	20.7
3/28/00 2:29 PM	6.10	10469 (LF20)	20.4	7.25	8.61	95.3	235	*	0.33	43.2	33	*	*	*	0.08	*	7	*	*	29.7	33.3
3/29/00 8:20 AM	6.02	10467 (BS18)	19.7	6.38	9.1	99.7	175	*	0.66	10.2	47	*	*	*	0.16	*	8	*	*	23.7	22.2
3/28/00 2:00 PM	6.00	10430 (SR21)	20.4	7.13	8	88.8	682	*	0.33	42.3	208	*	*	*	< 0.02	*	10	*	*	57.7	71.8
3/28/00 2:55 PM	6.00	10429 (SR19)	21.5	7.29	8.9	101	345	*	0.33	43.9	104	*	*	*	0.06	*	8	*	*	57.4	37.6
3/29/00 9:00 AM	5.00	10428 (SR17)	21	7.04	8.33	92.4	236	*	0.49	32.2	62	8.33	*	*	0.1	*	6	*	*	33.6	27
3/29/00 9:23 AM	5.00	10427 (SR16)	20.8	7.01	7.87	88.3	264	*	0.48	30.5	88	*	*	*	0.12	*	6	*	*	42.7	27.4
3/29/00 9:45 AM	5.00	10426 (SR15)	21.6	7.04	8.45	95.5	298	*	0.71	34.9	120	*	*	*	0.11	*	6	*	*	52.9	27.6
3/29/00 10:10 AM	5.00	10423 (SR14)	21	6.9	7.79	87.3	263	*	0.34	52.5	500	*	*	*	0.46	*	7	*	*	41.8	27.4
3/29/00 10:52 AM	5.00	13628 (SR11)	21	7.1	7.71	84.3	241	*	0.42	52.1	220	*	*	*	0.21	*	8	*	*	34.9	30.1
3/29/00 11:35 AM	5.00	10415 (SR10)	20.5	6.74	6.7	74.2	214	*	0.31	61.3	144	*	*	*	0.2	*	12	*	*	23.1	28.6

*: Not sampled on this run

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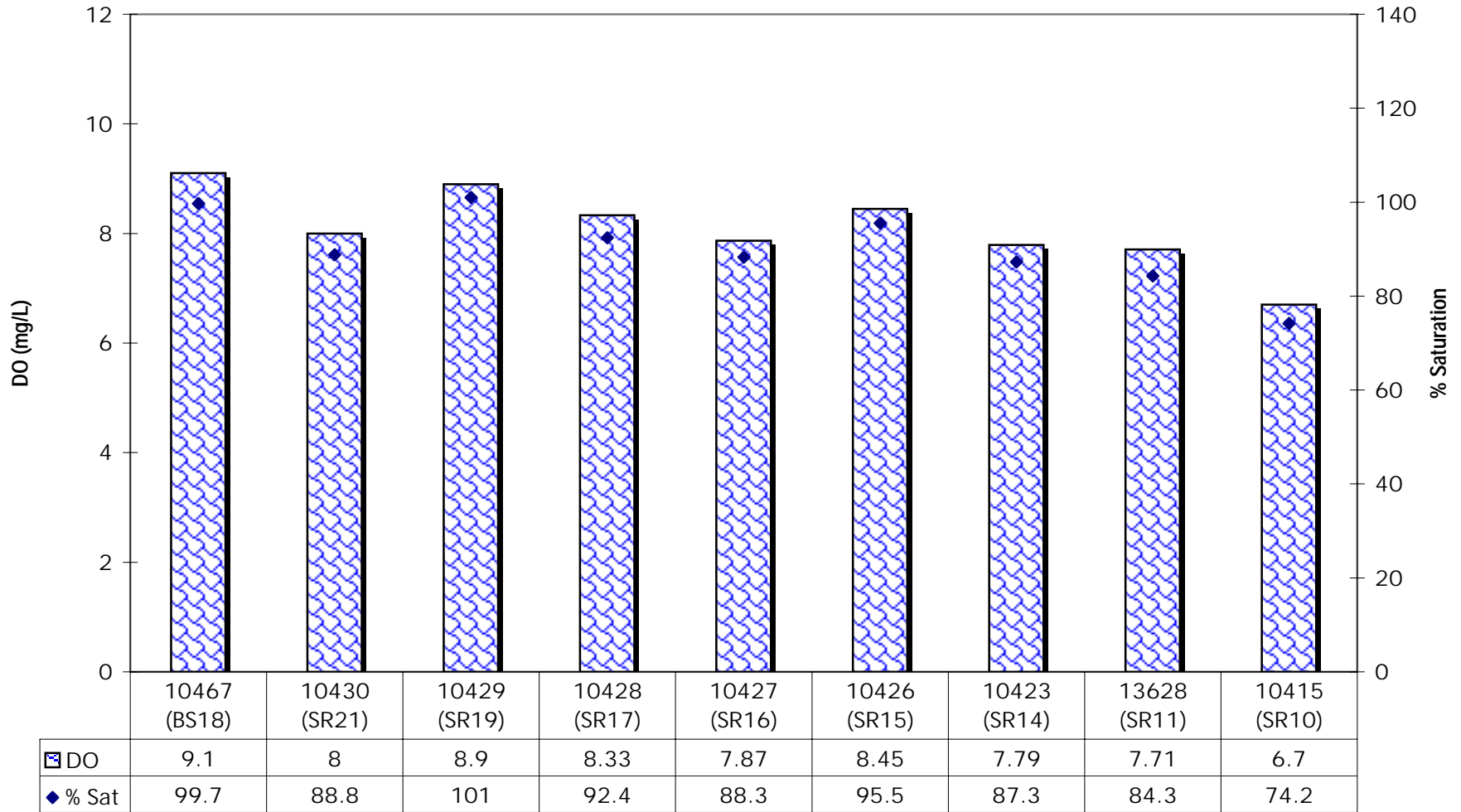
Upper Sabine Basin DO / % Saturation (1 of 2)



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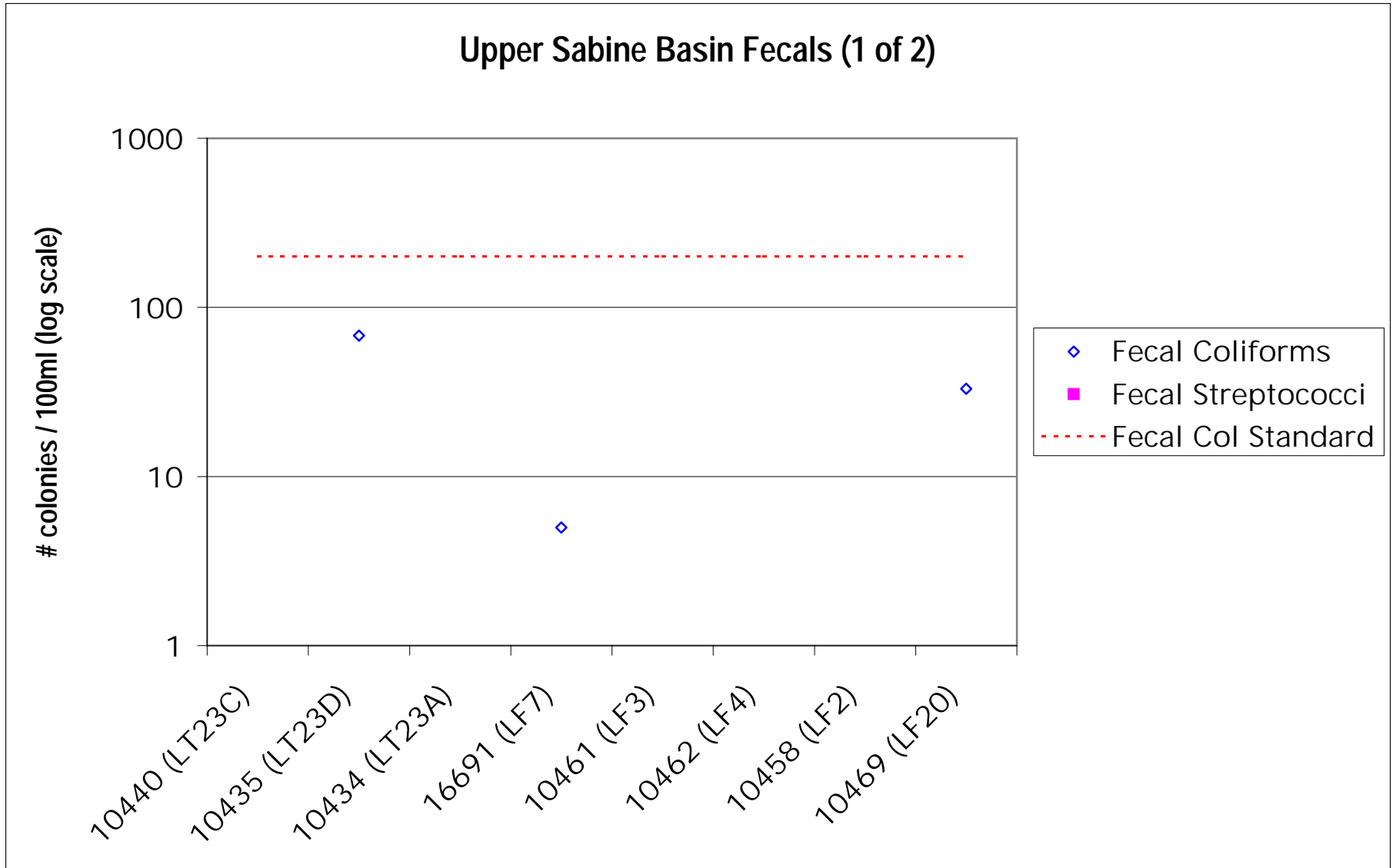
March 2000

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



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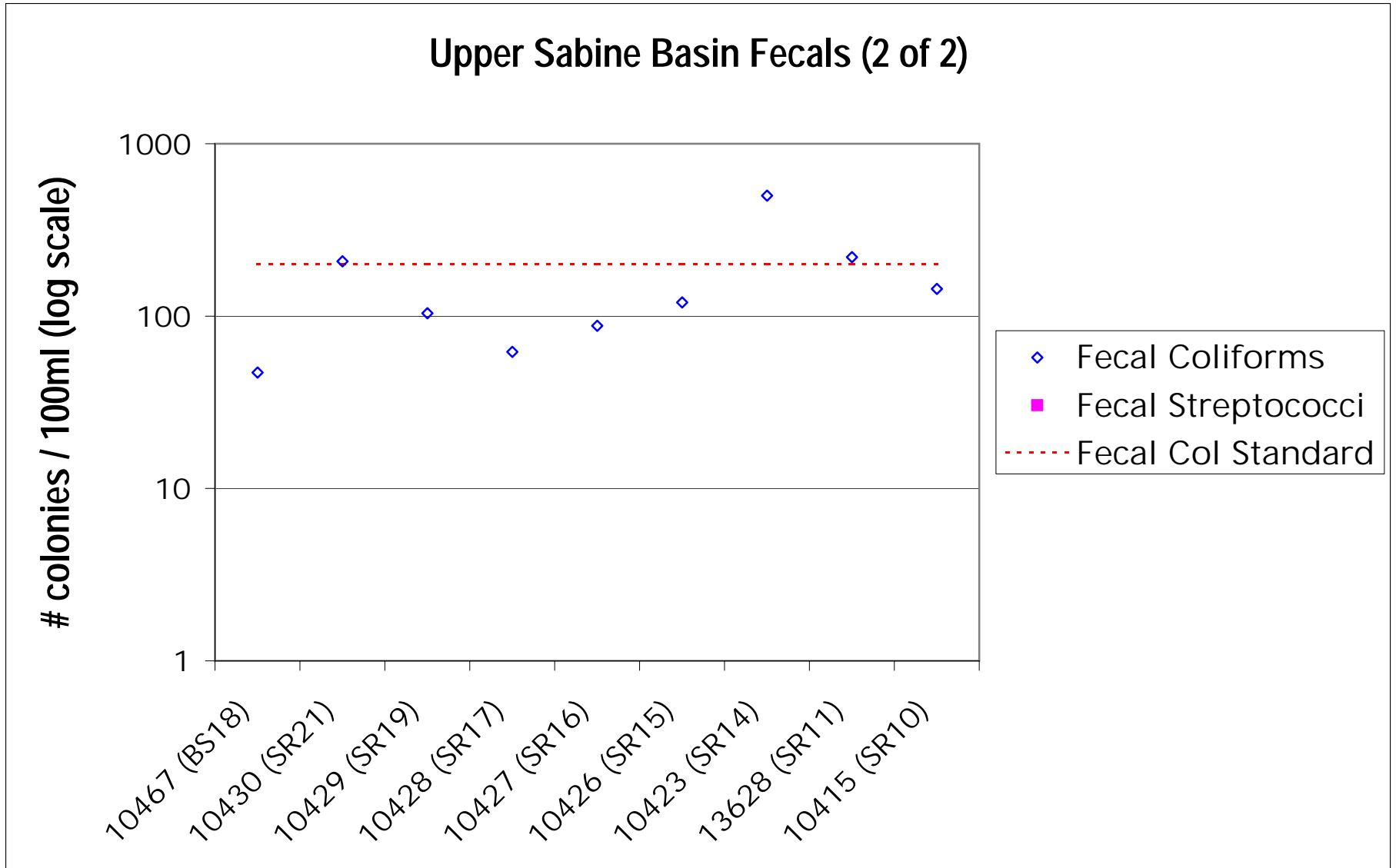
March 2000



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

SABINE RIVER AUTHORITY OF TEXAS

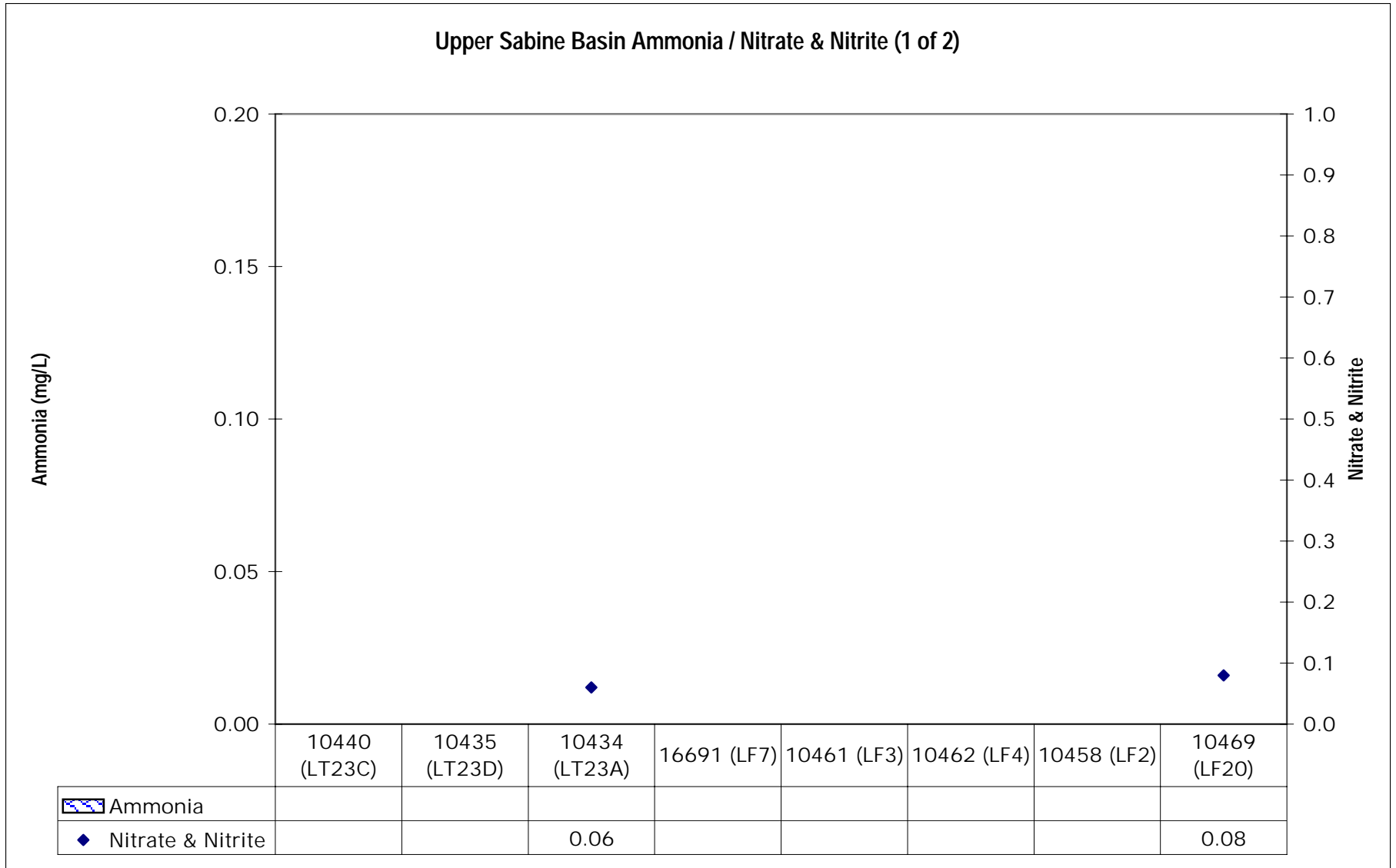
March 2000



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

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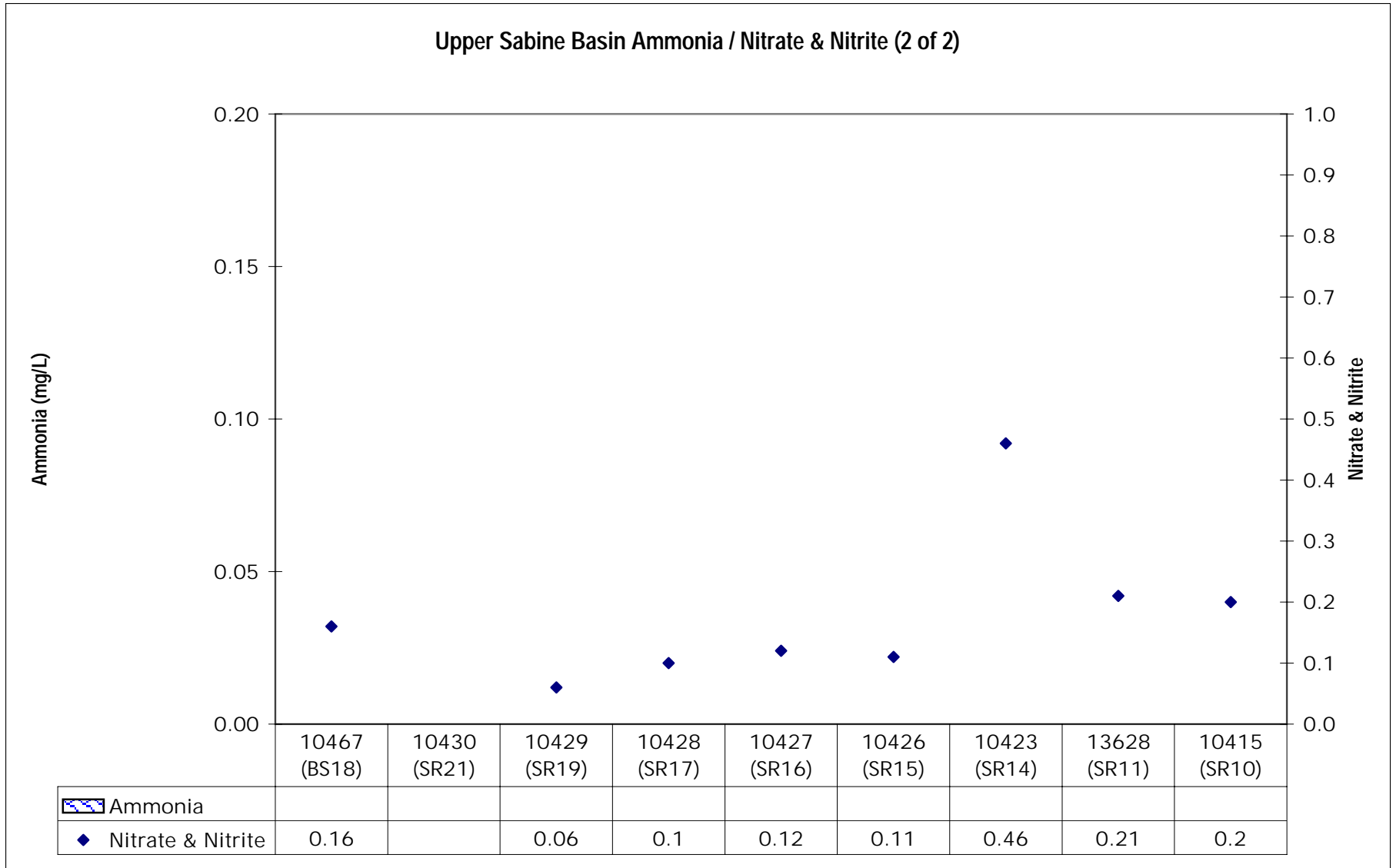
March 2000



Stations without Nitrate Nitrite values were below detection limit on this run (see page 2).
 Values for ammonia were not obtained due to equipment failure.

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March 2000



Stations without Nitrate Nitrite values were below detection limit on this run (see page 2).
 Values for ammonia were not obtained due to equipment failure.

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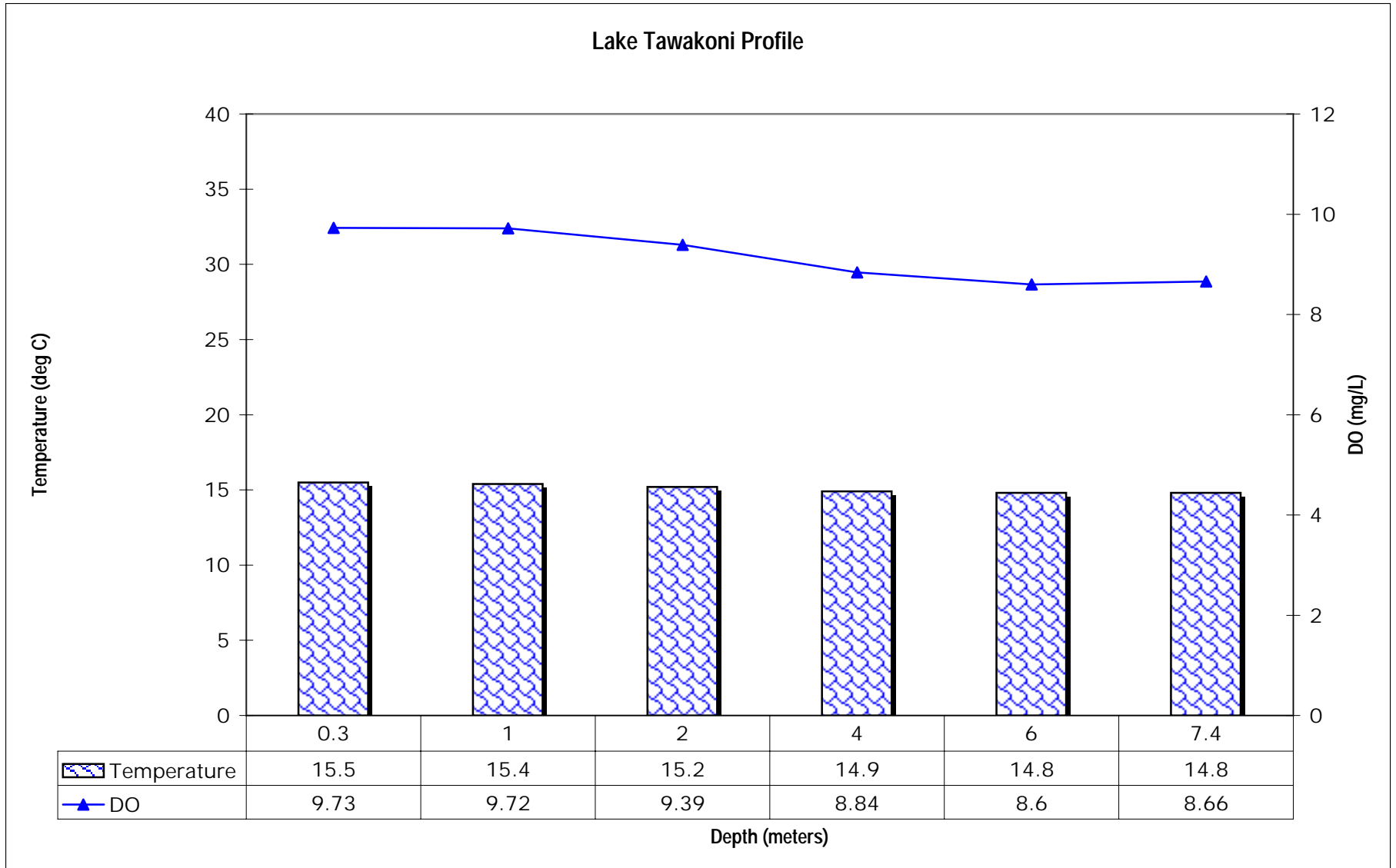
Upper Basin Profiles

March 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
3/28/00 12:30 PM	7.00	10440 (LT23C)	0.3	20.5	8.71	11.3	125	196
			1	20.1	8.67	11.1	123	196
			2.5	19.6	8.48	10.3	113	197
3/28/00 11:46 AM	7.00	10435 (LT23D)	0.3	19.9	8.58	10.6	117	200
			1	19.6	8.46	10.1	110	203
			3	16.4	7.43	5.71	57.7	200
			6	16	7.39	5.33	53.7	195
			7.4	16	7.38	5.42	55.6	195
3/28/00 11:05 AM	7.00	10434 (LT23A)	0.3	15.5	8.01	9.73	97.5	190
			1	15.4	8.01	9.72	97.3	191
			2	15.2	7.94	9.39	94.3	190
			4	14.9	7.81	8.84	87.4	187
			6	14.8	7.76	8.6	84.8	191
			7.4	14.8	7.79	8.66	85.4	191
3/28/00 9:53 AM	6.12	16691 (LF7)	0.3	18.9	7.74	10	108	160
			1	18.9	7.75	10	108	160
			3	18.4	7.21	9.5	100	161
			4	16.3	6.71	5.54	56.2	160
			4.8	16	6.61	5.16	52.2	162
3/28/00 8:50 AM	6.12	10461 (LF3)	0.3	18.8	8.17	10.7	116	158
			1	18.8	8.11	10.7	115	158
			3	18.2	7.54	10.3	109	161
			4.5	16.8	6.95	9	91.1	158
			6	16.1	6.62	7.4	75.1	159
			9	15.5	6.38	5.49	55.4	157
3/28/00 9:24 AM	6.12	10462 (LF4)	0.3	17.8	8.2	10.7	113	157
			1	17.8	8.17	10.7	112	156
			3	17.3	7.72	10.2	106	155
			6	15.1	6.96	8.27	82.2	153
			9.8	14.7	6.87	7.65	74.9	150
03/28/2000 8:02	6.12	10458 (LF2)	0.3	17.8	7.64	11.2	118	163
			1	17.8	7.5	11.3	119	163
			3	17.6	7.42	11.4	117	163
			5	16.1	7.14	9.39	95.4	163
			9	15	7.03	8.55	84.8	163
			13	14.8	6.96	8.29	82	163
			16.3	14.6	6.9	7.1	69.9	173

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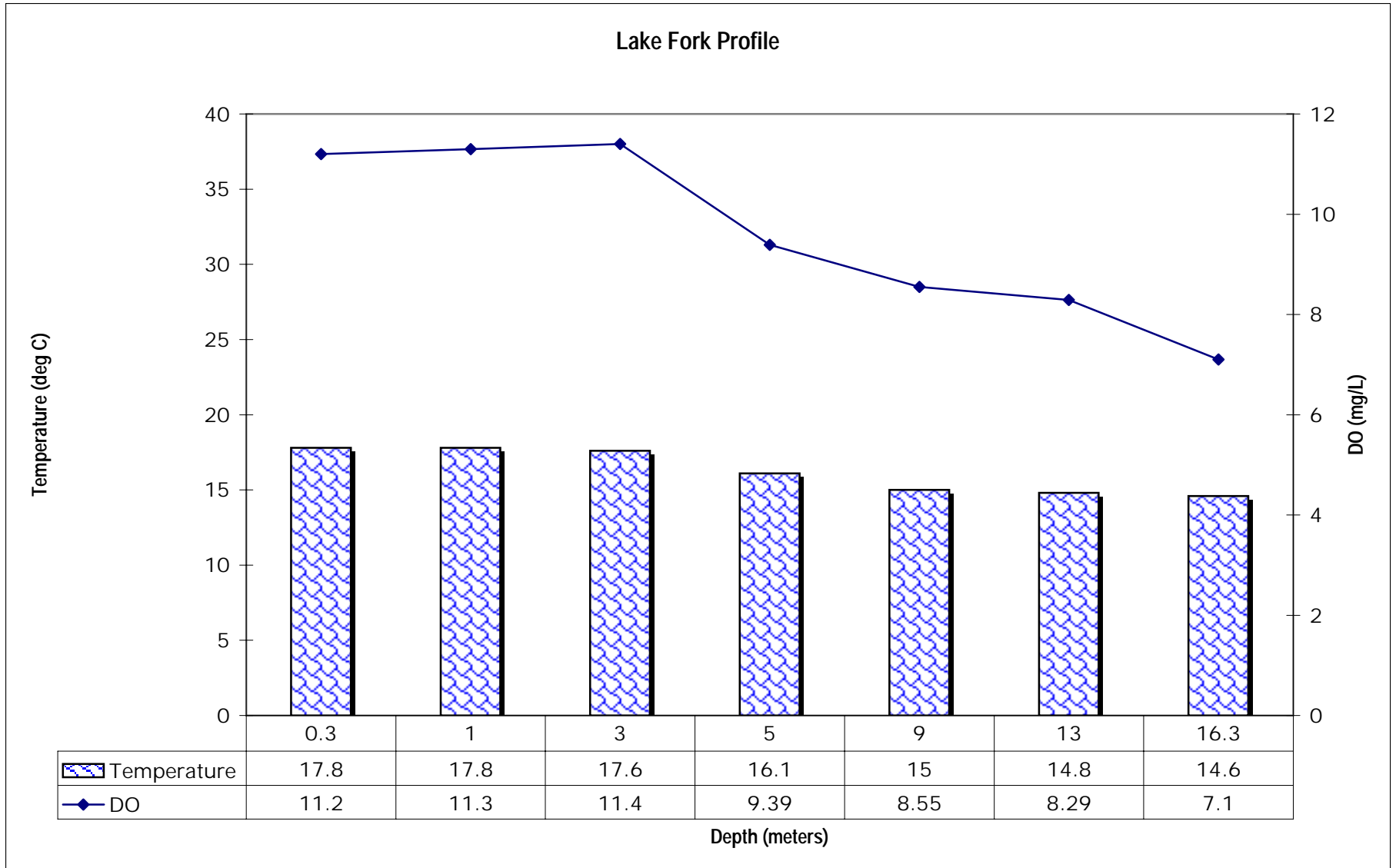
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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March 2000



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Lake Tawakoni Weather and Reservoir Data

March 2000

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
03/01/2000	431.58	(5.92)	5	78	44	0.00	NR
03/02/2000	431.51	(5.99)	5	72	44	0.00	0.10
03/03/2000	431.57	(5.93)	5	74	45	0.08	0.24
03/04/2000	431.62	(5.88)	5	52	42	0.00	0.10
03/05/2000	431.65	(5.85)	5	62	40	0.00	0.14
03/06/2000	431.64	(5.86)	5	69	40	0.00	0.21
03/07/2000	431.63	(5.87)	5	77	55	0.00	0.13
03/08/2000	431.64	(5.86)	5	81	55	0.10	0.23
03/09/2000	431.64	(5.86)	5	76	52	0.00	0.24
03/10/2000	431.62	(5.88)	5	78	52	0.00	0.29
03/11/2000	431.81	(5.69)	5	58	36	1.47	NR
03/12/2000	431.77	(5.73)	5	54	31	0.00	0.33
03/13/2000	431.77	(5.73)	5	62	44	0.00	0.24
03/14/2000	431.77	(5.73)	5	71	43	0.00	0.19
03/15/2000	431.78	(5.72)	5	69	53	0.02	0.09
03/16/2000	431.78	(5.72)	5	68	54	0.00	0.09
03/17/2000	431.80	(5.70)	5	75	53	0.04	0.17
03/18/2000	431.74	(5.76)	5	50	42	0.03	0.11
03/19/2000	431.73	(5.77)	5	66	44	0.06	0.28
03/20/2000	431.73	(5.77)	5	60	39	0.00	0.17
03/21/2000	431.72	(5.78)	5	68	56	0.00	0.25
03/22/2000	431.73	(5.77)	0	69	54	0.18	0.13
03/23/2000	431.73	(5.77)	0	78	56	0.00	0.14
03/24/2000	431.72	(5.78)	0	79	58	0.25	0.18
03/25/2000	431.75	(5.75)	0	81	63	0.00	0.24
03/26/2000	431.78	(5.72)	0	82	58	0.22	0.16
03/27/2000	431.79	(5.71)	0	80	52	0.00	0.20
03/28/2000	431.77	(5.73)	0	76	52	0.00	0.27
03/29/2000	431.81	(5.69)	0	82	62	0.39	0.27
03/30/2000	431.99	(5.51)	0	82	52	0.00	0.19
03/31/2000	431.96	(5.54)	0	59	40	0.00	0.05
Avg or Tot	431.73	(5.77)	3	71	49	2.84	5.43

Units	Avg Feet M.S.L.	Avg Feet	Avg Instantaneous cfs appx. 8 a.m.	Avg Deg F	Avg Deg F	Tot Inches	Tot Inches
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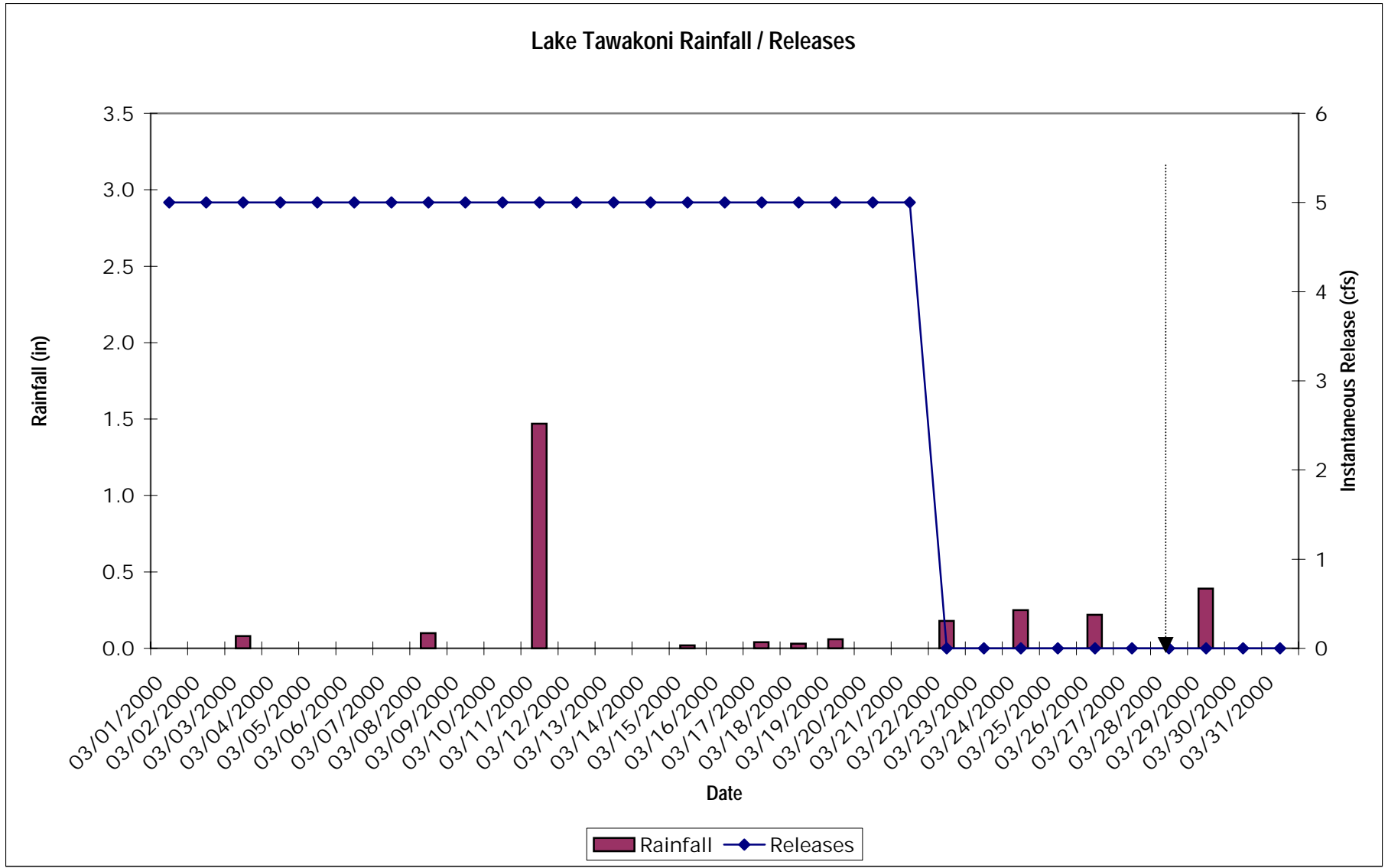
NR: No Reading

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

Lake Tawakoni Sampled on 3/28/2000

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March 2000



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

March 2000

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
03/01/2000	399.89	(3.11)	48	48	76	48	0.00	0.14
03/02/2000	399.84	(3.16)	48	48	72	50	0.00	0.25
03/03/2000	399.89	(3.11)	48	48	74	50	0.28	0.03
03/04/2000	399.89	(3.11)	48	48	52	46	0.00	0.07
03/05/2000	399.84	(3.16)	48	48	62	38	0.00	0.16
03/06/2000	399.84	(3.16)	48	48	68	42	0.00	0.17
03/07/2000	399.79	(3.21)	48	48	76	56	0.00	0.11
03/08/2000	399.79	(3.21)	48	48	80	56	0.01	0.21
03/09/2000	399.79	(3.21)	48	48	74	54	0.00	0.19
03/10/2000	399.79	(3.21)	48	48	80	48	0.00	0.21
03/11/2000	400.03	(2.97)	48	48	60	40	1.70	0.00
03/12/2000	400.00	(3.00)	48	48	54	32	0.00	0.16
03/13/2000	399.94	(3.06)	48	48	62	30	0.00	0.16
03/14/2000	399.94	(3.06)	48	48	70	47	0.00	0.28
03/15/2000	399.94	(3.06)	48	48	68	54	0.00	0.11
03/16/2000	399.94	(3.06)	48	48	64	58	0.00	0.05
03/17/2000	399.94	(3.06)	48	48	74	46	0.03	0.10
03/18/2000	399.97	(3.03)	48	48	53	44	0.55	0.00
03/19/2000	399.94	(3.06)	48	48	68	46	0.00	0.07
03/20/2000	399.94	(3.06)	48	48	60	38	0.00	0.14
03/21/2000	399.89	(3.11)	48	48	74	44	0.00	0.30
03/22/2000	399.89	(3.11)	48	48	68	54	0.36	0.00
03/23/2000	399.89	(3.11)	48	48	78	58	0.00	0.13
03/24/2000	399.94	(3.06)	48	48	78	60	0.31	0.00
03/25/2000	400.14	(2.86)	48	48	80	66	0.00	0.20
03/26/2000	399.99	(3.01)	48	48	80	60	0.33	0.00
03/27/2000	400.04	(2.96)	48	48	78	53	0.00	0.21
03/28/2000	400.04	(2.96)	48	48	78	50	0.00	0.27
03/29/2000	400.09	(2.91)	48	48	80	60	0.81	0.00
03/30/2000	400.24	(2.76)	48	48	81	50	0.11	0.23
03/31/2000	400.24	(2.76)	48	48	62	47	0.00	0.10
Avg or Tot	399.95	(3.05)	48	48	70	49	4.49	4.05

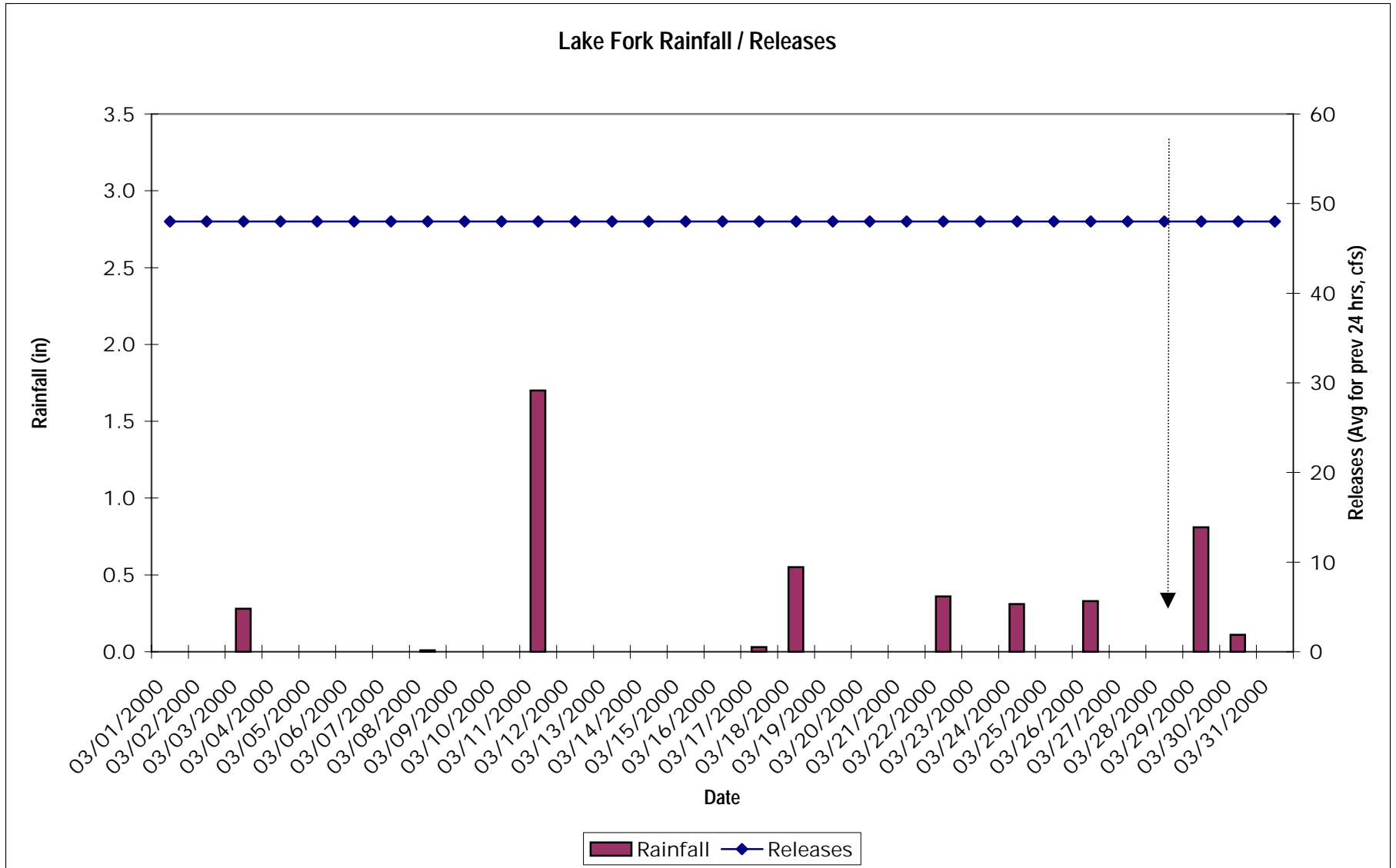
	Avg	Avg	Avg		Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches	Inches
			Previous 24 hrs					

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

Lake Fork Sampled on 3/28/2000

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March 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

March 2000

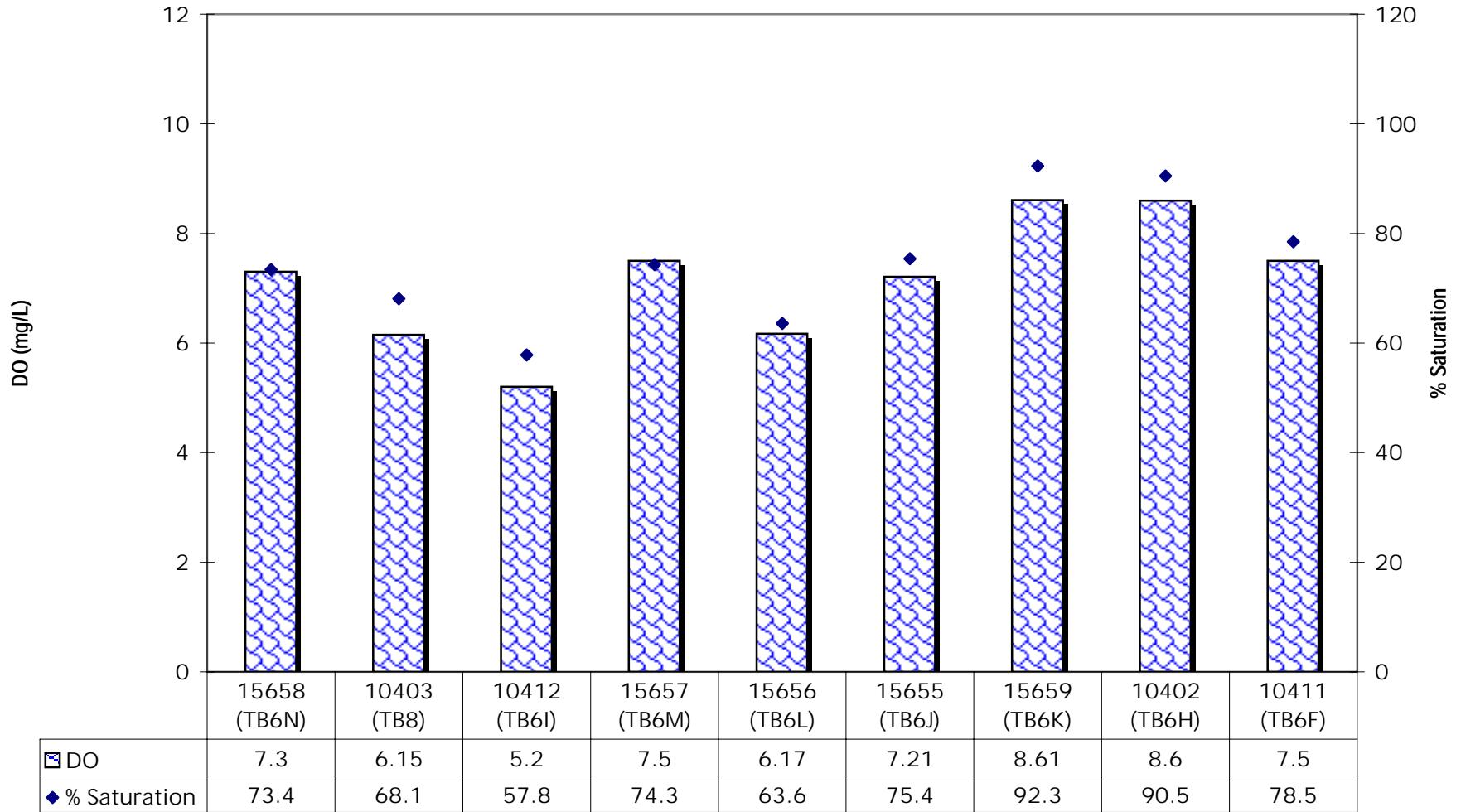
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
3/22/00 12:40 PM	4.10	15658 (TB6N)	15.9	6.71	7.3	73.4	209	*	0.24	46.6	260	220	*	*	0.32	0.28	17	*	*	17.4	30.1
3/29/00 12:05 PM	4.00	10403 (TB8)	20.4	6.58	6.15	68.1	208	*	0.52	38.7	920	*	*	*	0.25	*	11	*	*	24.7	25.7
3/29/00 12:32 PM	4.00	10412 (TB6I)	21	6.58	5.2	57.8	178	*	0.43	35.3	480	*	*	*	0.11	*	*	*	*	14	27.2
3/22/00 1:08 PM	4.00	15657 (TB6M)	15.4	6.03	7.5	74.3	130	*	0.22	46.7	400	*	*	*	0.19	0.03	13	*	*	14.4	18
3/22/00 12:51 PM	4.00	15656 (TB6L)	16.8	6.3	6.17	63.6	154	*	0.24	51.6	280	*	*	*	0.58	0.39	16	*	*	12.9	18.6
3/22/00 10:26 AM	4.00	15655 (TB6J)	17.1	6.76	7.21	75.4	163	*	0.28	37.9	133	*	*	*	0.15	< 0.02	7	*	*	14.8	24.8
3/22/00 12:18 PM	4.00	15659 (TB6K)	18.5	7.34	8.61	92.3	171	*	0.94	5.51	< 2	*	*	*	< 0.02	< 0.02	5	*	*	17.5	20.9
3/22/00 11:11 AM	4.00	10402 (TB6H)	17.7	7.42	8.6	90.5	171	*		2.58	2	*	*	*	< 0.02	< 0.02	5	*	*	16.9	15.8
3/22/00 10:52 AM	4.00	10411 (TB6F)	17.6	6.67	7.5	78.5	112	*	0.43	25.1	33	*	*	*	0.13	< 0.02	6	*	*	10.1	15.4
3/22/00 9:45 AM	4.00	10407 (TB6CN)	17.4	7.17	8.3	87	136	*	0.91	7.29	130	*	*	*	0.06	< 0.02	5	*	*	14.1	19
3/22/00 11:05 AM	4.00	10404 (TB6A)	16.9	7.02	9.26	95.6	136	*	2.35	0.67	< 2	*	*	*	< 0.02	< 0.02	4	*	*	12.5	15
3/22/00 12:22 PM	3.03	10340 (BA4)	18.8	7.26	8.62	92.5	377	*	0.19	39.9	228	220	*	*	0.71	0.25	22	*	*	58.7	143
3/22/00 10:23 AM	3.00	10401 (TB6S)	14.1	7.4	10.7	105	140	*	> 1.2	2.35	2	*	*	*	< 0.02	< 0.02	5	*	*	12.6	15.7
3/22/00 10:40 AM	3.00	10400 (TB6)	15.8	7.37	9.51	95.8	138	*	> 1.2	0.91	4	*	*	*	< 0.02	< 0.02	4	*	*	12.5	14.9
3/22/00 11:50 AM	3.00	10399 (SR5)	17.1	7.13	9.4	97.5	113	*	0.62	14.1	80	*	*	*	0.08	< 0.02	7	*	*	10.3	12.3
3/22/00 1:21 PM	3.00	10398 (SR3)	18.7	6.94	9	96.6	195	*	0.36	19.7	56	*	*	*	0.02	< 0.02	10	*	*	17.7	31.9
3/22/00 1:50 PM	2.05	10465 (BCC1)	17.6	6.74	9.44	98.9	51	*	0.43	14.3	116	*	*	*	< 0.02	< 0.02	4	*	*	6.3	1.8
3/22/00 8:30 AM	2.00	10397 (SR2)	18.4	7.04	8.81	93.9	188	*	0.38	15	27	*	*	*	0.14	< 0.02	5	*	*	17	28.4

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

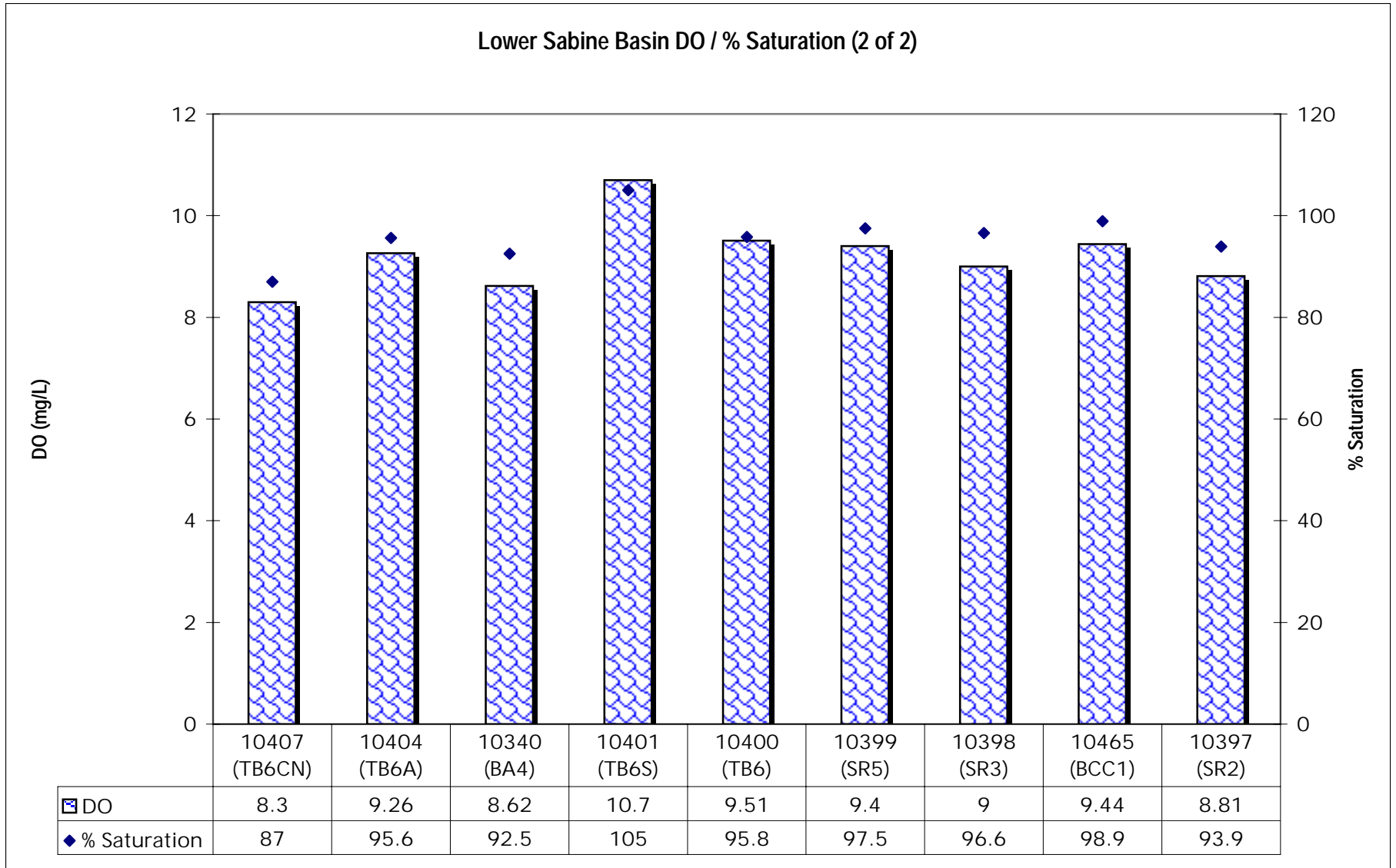
March 2000

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



SABINE RIVER AUTHORITY OF TEXAS

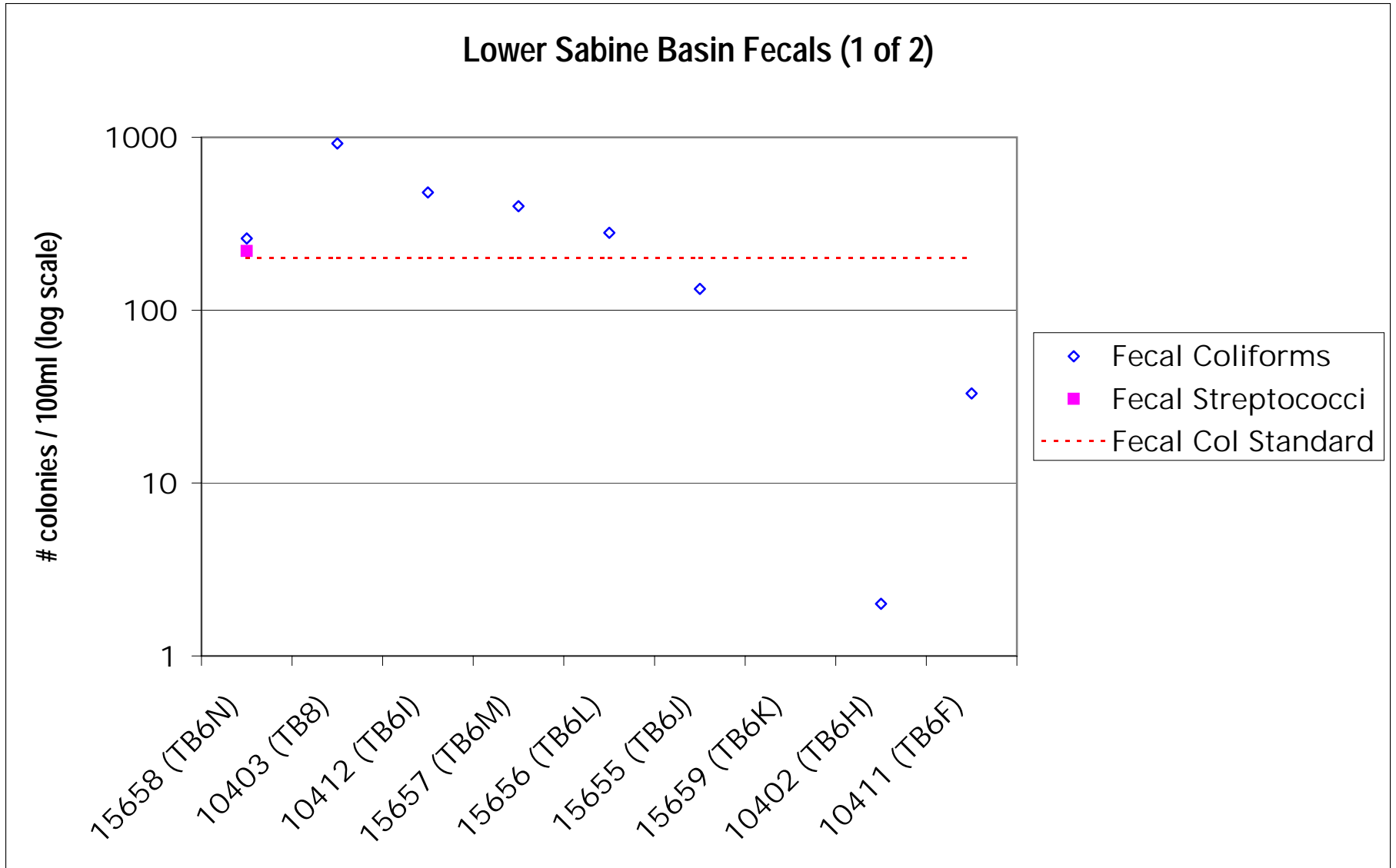
March 2000



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

SABINE RIVER AUTHORITY OF TEXAS

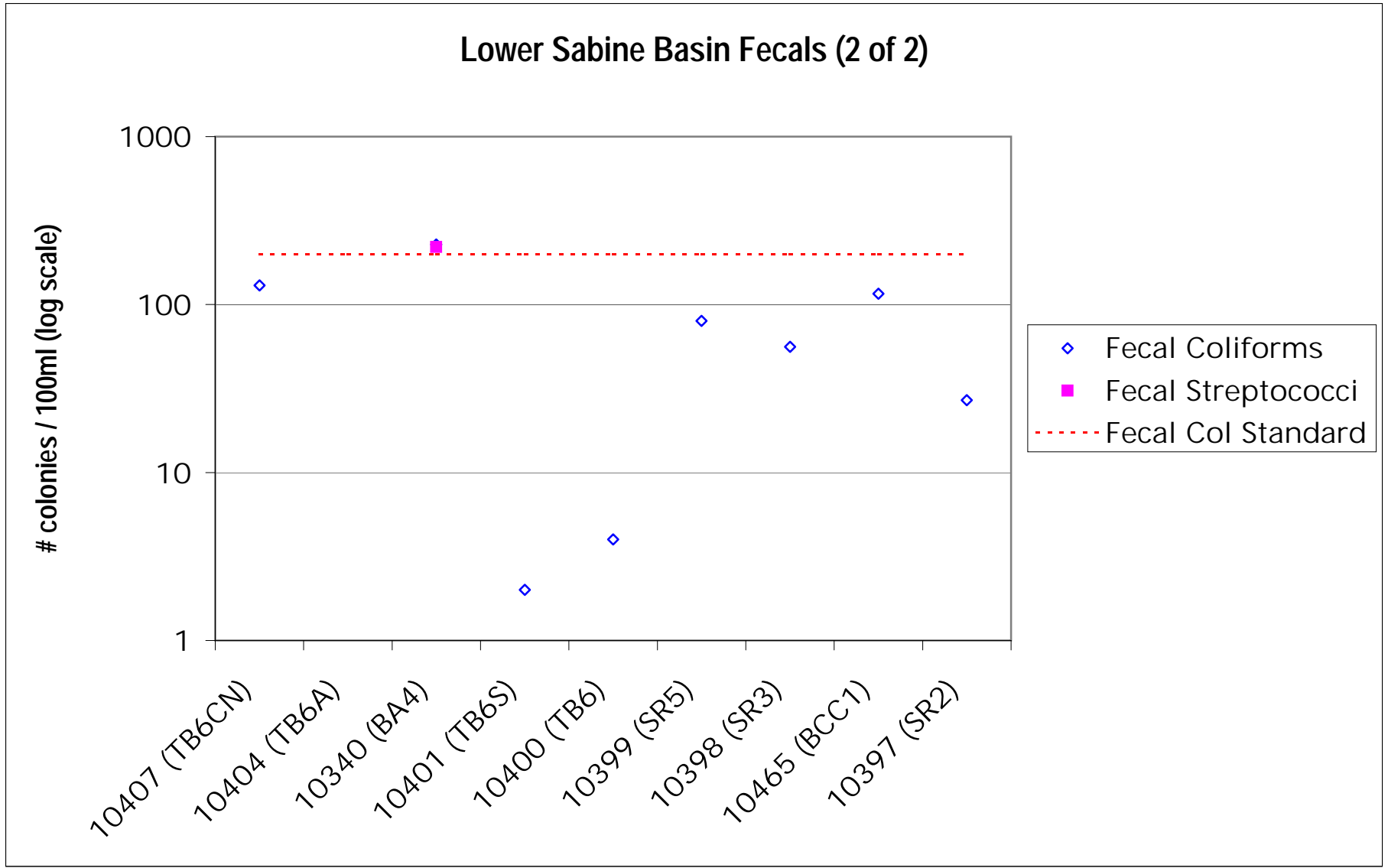
March 2000



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

SABINE RIVER AUTHORITY OF TEXAS

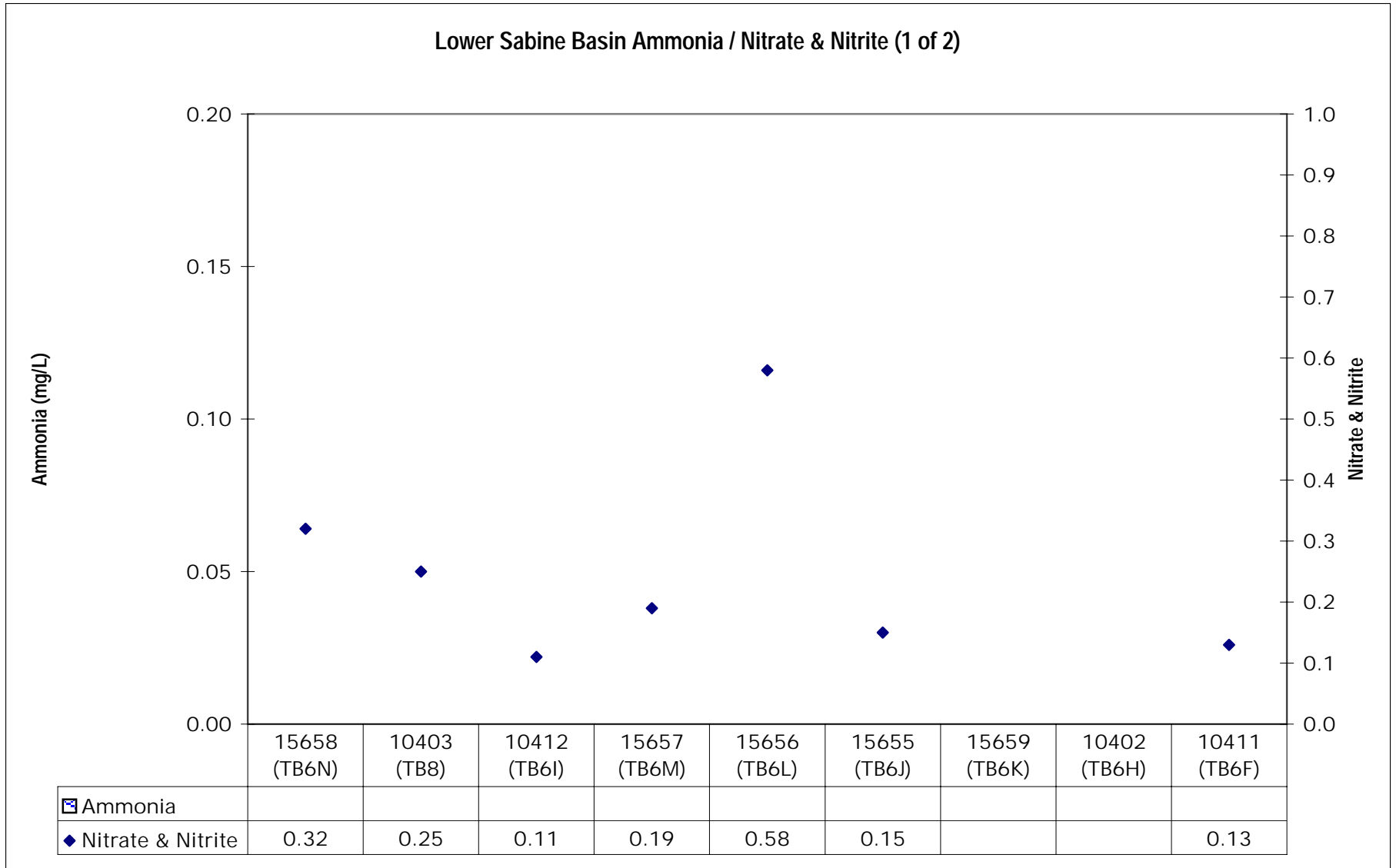
March 2000



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

SABINE RIVER AUTHORITY OF TEXAS

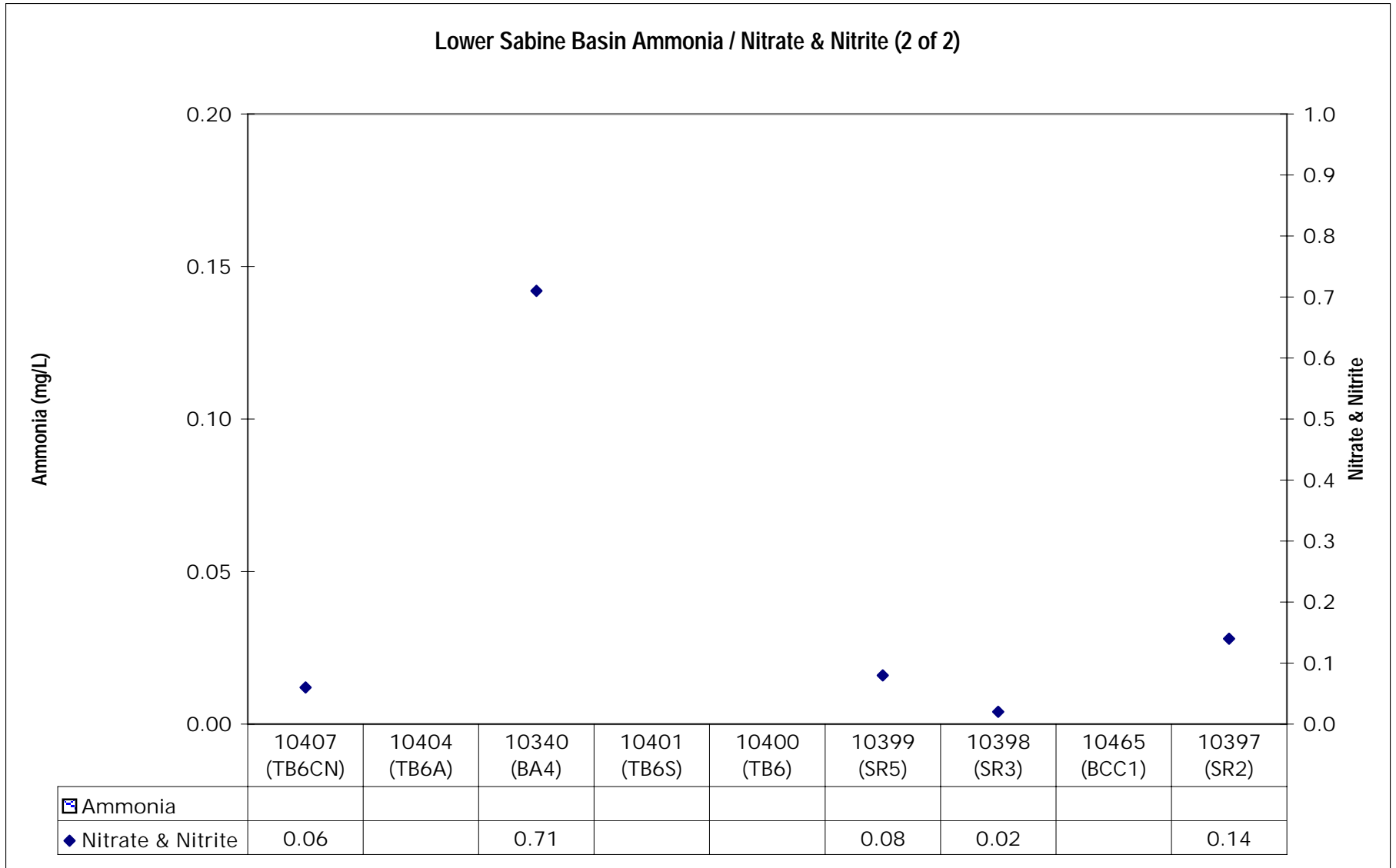
March 2000



Stations without Nitrate Nitrite values were not obtained on this run (see page 18).
 Values for ammonia were not obtained due to equipment failure.

SABINE RIVER AUTHORITY OF TEXAS

March 2000



Stations without Nitrate Nitrite values were not obtained on this run (see page 18).
 Values for ammonia were not obtained due to equipment failure.

SABINE RIVER AUTHORITY OF TEXAS

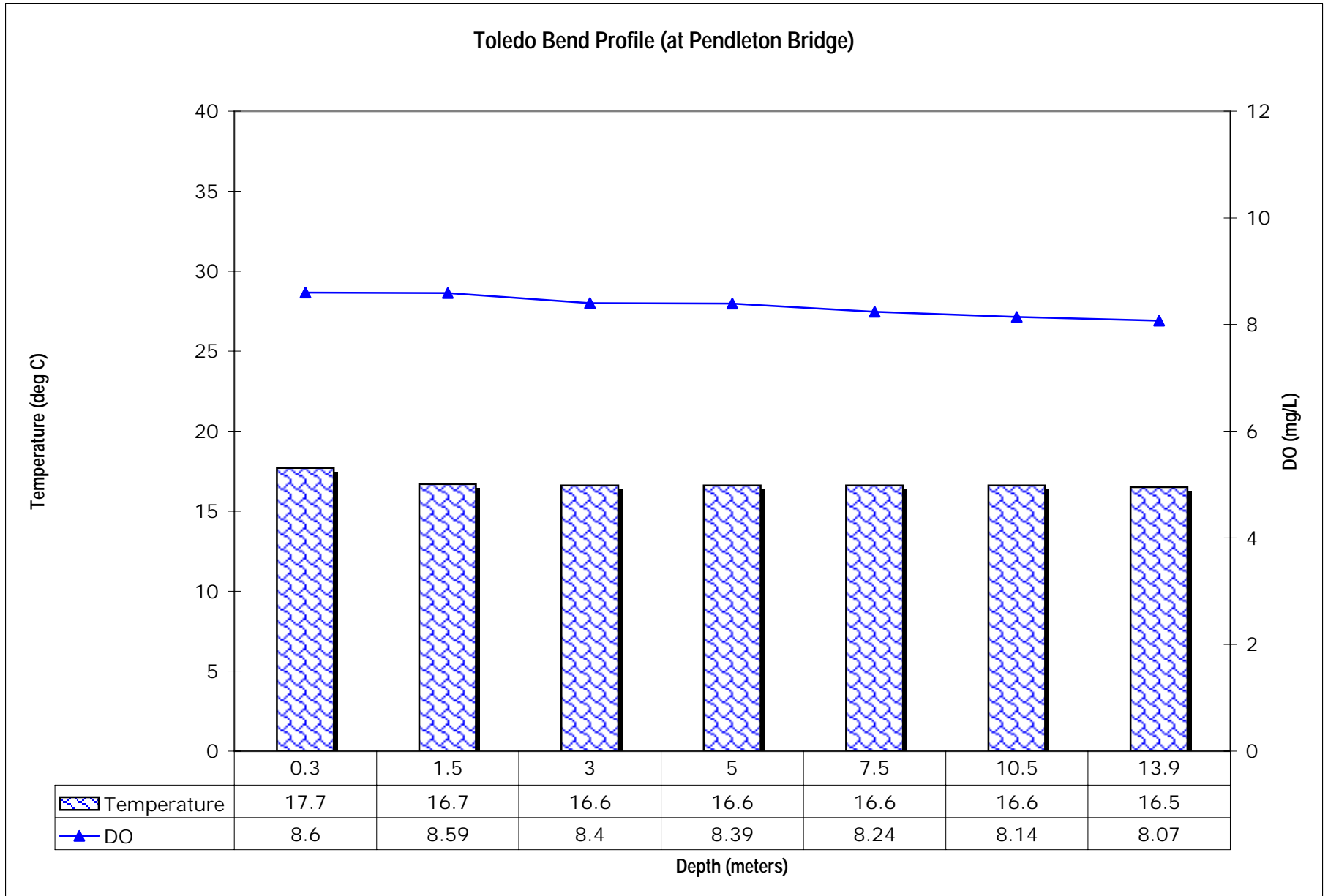
Lower Basin Profiles

March 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
3/22/00 1:08 PM	4.00	15657 (TB6M)	0.3	15.4	6.03	7.5	74.3	130
			3.1	15.4	6.05	8.29	82.9	126
3/22/00 12:51 PM	4.00	15656 (TB6L)	0.3	16.8	6.3	6.17	63.6	154
			1.3	16.8	6.3	6.24	64.1	154
3/22/00 10:26 AM	4.00	15655 (TB6)	0.3	17.1	6.76	7.21	75.4	163
			2.5	16.2	6.61	6.74	68.4	131
			3.5	16.3	6.65	7.77	78.5	129
3/22/00 12:18 PM	4.00	15659 (TB6K)	0.3	18.5	7.34	8.61	92.3	171
			2	16.9	7.24	8.53	87.6	171
			5	16.7	7.2	8.85	90.3	165
			8.6	16.8	7.19	9.53	99	168
3/22/00 11:11 AM	4.00	10402 (TB6H)	0.3	17.7	7.42	8.6	90.5	171
			1.5	16.7	7.45	8.59	88.5	169
			3	16.6	7.4	8.4	86.3	170
			5	16.6	7.4	8.39	85.1	163
			7.5	16.6	7.39	8.24	84.7	178
			10.5	16.6	7.37	8.14	83.6	172
3/22/00 10:52 AM	4.00	10411 (TB6F)	0.3	17.6	6.67	7.5	78.5	112
			2	17.3	6.59	7.59	79.1	107
			4.2	16.9	6.62	8.81	90	92
3/22/00 9:45 AM	4.00	10407 (TB6CN)	0.3	17.4	7.17	8.3	87	136
			2.5	16.5	7.01	8.02	82	148
			5.5	16	7.02	8.29	83.2	159
3/22/00 11:05 AM	4.00	10404 (TB6A)	0.3	16.9	7.02	9.26	95.6	136
			2.5	15.8	6.99	9.16	92.6	137
			5	15.7	6.98	9.17	92.4	136
			10	15.6	6.88	8.95	90.1	136
			15	13.1	6.71	5.02	48	140
			20	12.7	6.9	4.67	43.6	140
			27	12.1	7.18	4.3	38.8	144
3/22/00 1:21 PM	3.00	10398 (SR3)	0.3	18.7	6.94	9	96.6	195
			4	18.7	7.01	9.1	97.4	195
			7.3	18.7	7.12	9.14	97.7	196
03/22/2000 8:30	2	10397 (SR2)	0.3	18.4	7.04	8.81	93.9	188
			2.5	18.4	7.12	8.88	94.7	189

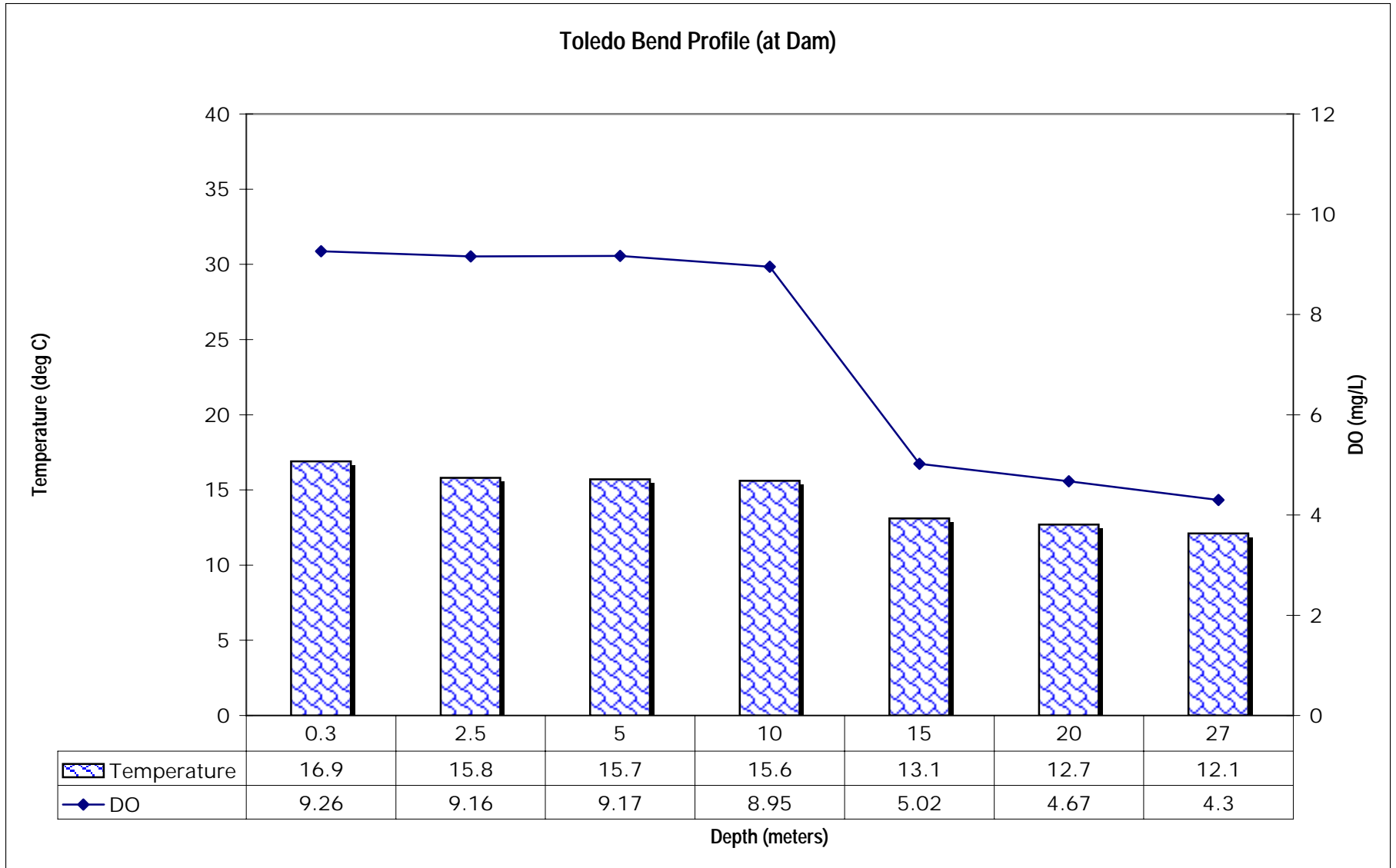
SABINE RIVER AUTHORITY OF TEXAS

March 2000



SABINE RIVER AUTHORITY OF TEXAS

March 2000



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

March 2000

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
03/01/2000	165.64	(6.36)	79	50	0.00	0.11	1133	2247	204
03/02/2000	165.64	(6.36)	79	56	0.00	0.19	204	405	204
03/03/2000	165.63	(6.37)	80	60	0.00	0.17	2456	4871	204
03/04/2000	165.77	(6.23)	72	49	0.00	0.19	204	405	204
03/05/2000	165.54	(6.46)	58	35	0.00	0.05	204	405	204
03/06/2000	165.63	(6.37)	73	37	0.00	0.22	1060	2102	204
03/07/2000	165.56	(6.44)	84	46	0.00	0.26	204	405	204
03/08/2000	165.57	(6.43)	80	63	0.00	0.16	1230	2440	204
03/09/2000	165.60	(6.40)	82	65	0.00	NR	835	1656	204
03/10/2000	165.63	(6.37)	80	67	0.00	NR	204	405	204
03/11/2000	166.10	(5.90)	82	48	2.30	NR	204	405	204
03/12/2000	165.77	(6.23)	58	36	0.00	NR	204	405	204
03/13/2000	165.79	(6.21)	60	34	0.00	0.15	1113	2208	204
03/14/2000	165.80	(6.20)	71	35	0.00	0.17	204	405	204
03/15/2000	165.82	(6.18)	68	44	0.00	0.11	1156	2293	204
03/16/2000	165.88	(6.12)	68	59	0.66	0.08	204	405	204
03/17/2000	165.91	(6.09)	69	56	0.01	0.17	1425	2827	204
03/18/2000	165.92	(6.08)	71	51	0.00	0.12	204	405	204
03/19/2000	166.30	(5.70)	79	50	1.50	0.00	204	405	204
03/20/2000	166.20	(5.80)	57	35	0.03	0.14	1125	2231	204
03/21/2000	166.29	(5.71)	70	36	0.00	0.18	204	405	204
03/22/2000	166.45	(5.55)	67	51	0.01	0.08	1142	2265	204
03/23/2000	166.44	(5.56)	60	57	0.00	0.27	204	405	204
03/24/2000	166.47	(5.53)	84	60	0.00	0.30	1403	2783	204
03/25/2000	166.52	(5.48)	80	63	0.00	0.14	204	405	204
03/26/2000	166.52	(5.48)	82	62	0.33	0.18	204	405	204
03/27/2000	166.75	(5.25)	80	58	0.60	0.33	1133	2247	204
03/28/2000	166.83	(5.17)	79	47	0.00	0.29	204	405	204
03/29/2000	166.94	(5.06)	85	47	0.00	0.28	1154	2289	204
03/30/2000	167.10	(4.90)	83	63	0.03	0.16	204	405	204
03/31/2000	167.11	(4.89)	68	53	0.00	0.26	1441	2858	204
Avg or Tot	166.10	(5.90)	74	51	5.47	4.76	686	42202	

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.
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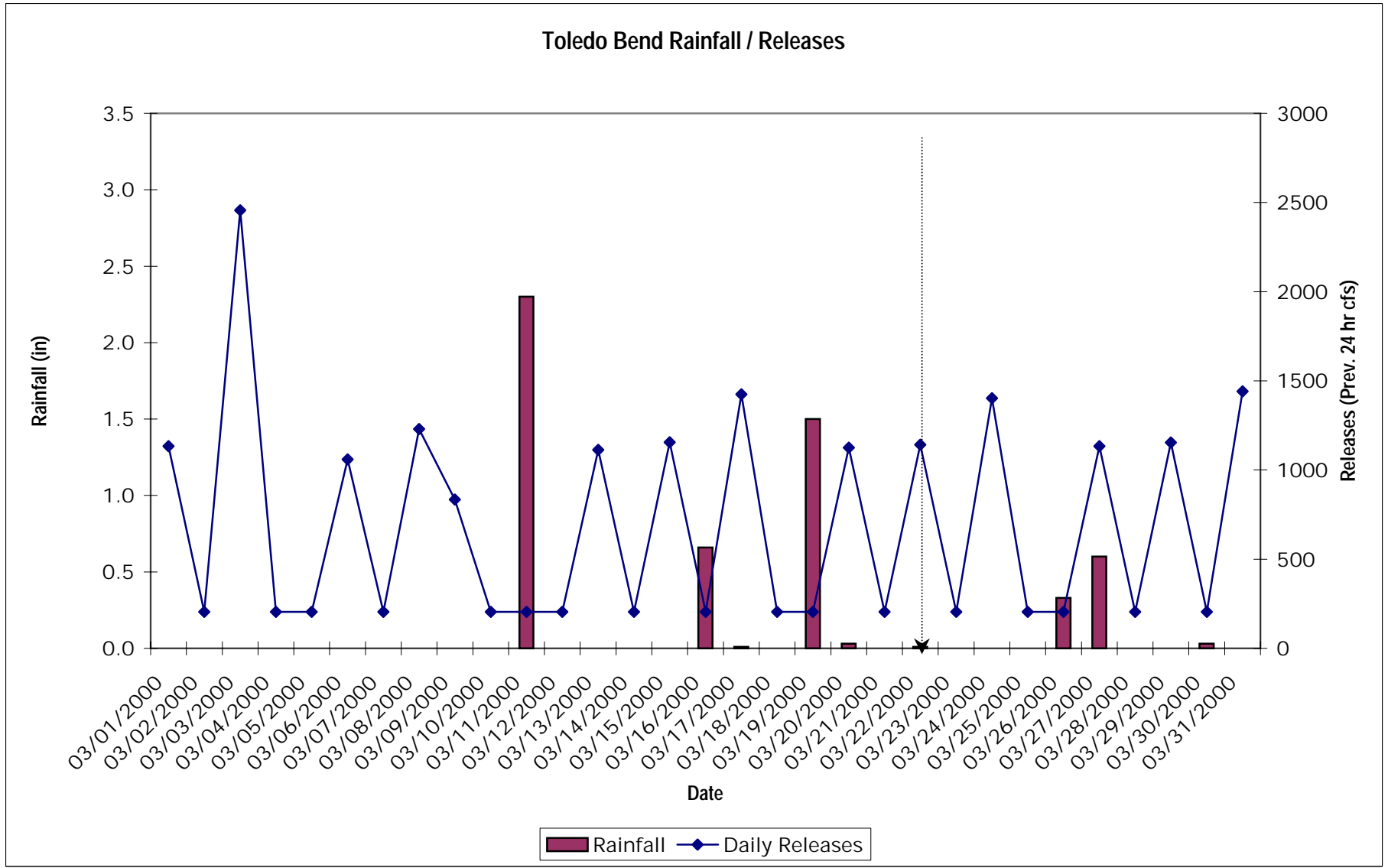
NR: No Reading

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

Toledo Bend Sampled on 3/22/2000

SABINE RIVER AUTHORITY OF TEXAS

March 2000



SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

March 2000

Date	Rainfall	Gauge Height	GH - FS	Flow
03/01/2000	*	12.74	(28.26)	240
03/02/2000	*	14.83	(26.17)	1083
03/03/2000	*	12.66	(28.34)	219
03/04/2000	*	15.16	(25.84)	1269
03/05/2000	*	12.62	(28.38)	209
03/06/2000	*	12.53	(28.47)	188
03/07/2000	*	14.70	(26.30)	1014
03/08/2000	*	12.60	(28.40)	204
03/09/2000	*	15.16	(25.84)	1269
03/10/2000	*	13.93	(27.07)	650
03/11/2000	*	15.87	(25.13)	1713
03/12/2000	*	13.67	(27.33)	544
03/13/2000	*	13.11	(27.89)	347
03/14/2000	*	15.05	(25.95)	1205
03/15/2000	*	12.81	(28.19)	259
03/16/2000	*	15.13	(25.87)	1251
03/17/2000	*	12.73	(28.27)	237
03/18/2000	*	15.14	15.14	1257
03/19/2000	*	OUT	OUT	OUT
03/20/2000	*	13.81	(27.19)	600
03/21/2000	*	15.16	(25.84)	1269
03/22/2000	*	13.05	(27.95)	328
03/23/2000	*	15.06	(25.94)	1211
03/24/2000	*	12.85	(28.15)	270
03/25/2000	*	15.30	(25.70)	1351
03/26/2000	*	12.79	(28.21)	253
03/27/2000	*	12.78	(28.22)	250
03/28/2000	*	15.21	(25.79)	1298
03/29/2000	*	13.11	(27.89)	347
03/30/2000	*	15.17	(25.83)	1274
03/31/2000	*	12.73	(28.27)	237
Avg or Tot		13.92	(25.72)	728

	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

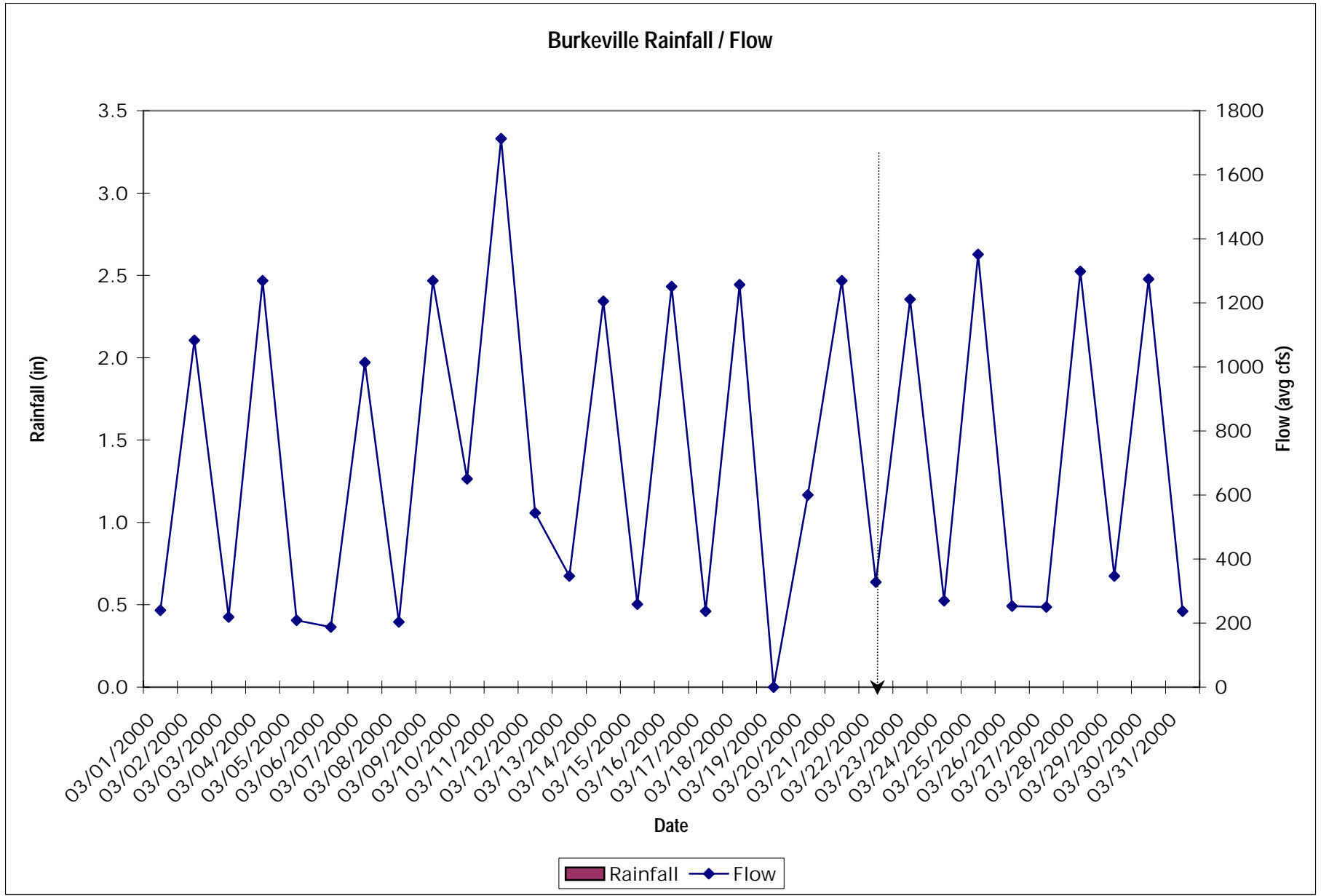
OUT: Gage Out

Lower Sabine Basin Sampled on 3/22/2000

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

SABINE RIVER AUTHORITY OF TEXAS

March 2000



Lower Sabine Basin Sampled on 3/22/2000.

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

March 2000

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
03/01/2000	14.44	(15.56)	1513	0.00
03/02/2000	13.24	(16.76)	852	0.00
03/03/2000	14.48	(15.52)	1537	0.00
03/04/2000	13.15	(16.85)	809	0.00
03/05/2000	14.74	(15.26)	1704	0.00
03/06/2000	13.16	(16.84)	814	0.00
03/07/2000	12.82	(17.18)	661	0.00
03/08/2000	14.31	(15.69)	1433	0.00
03/09/2000	13.12	(16.88)	795	0.00
03/10/2000	14.56	(15.44)	1588	0.00
03/11/2000	14.53	(15.47)	1569	0.59
03/12/2000	16.04	(13.96)	2651	0.00
03/13/2000	15.24	(14.76)	2046	0.00
03/14/2000	14.12	(15.88)	1320	0.00
03/15/2000	14.84	(15.16)	1771	0.03
03/16/2000	13.60	(16.40)	1032	0.18
03/17/2000	14.88	(15.12)	1797	0.00
03/18/2000	13.54	(16.46)	1001	0.00
03/19/2000	14.93	(15.07)	1831	0.23
03/20/2000	13.72	(16.28)	1096	0.03
03/21/2000	14.37	(15.63)	1469	0.00
03/22/2000	15.15	(14.85)	1983	0.13
03/23/2000	13.75	(16.25)	1112	0.00
03/24/2000	14.76	(15.24)	1717	0.00
03/25/2000	13.49	(16.51)	976	0.00
03/26/2000	14.90	(15.10)	1811	0.43
03/27/2000	13.47	(16.53)	965	0.24
03/28/2000	13.24	(16.76)	852	0.00
03/29/2000	14.88	(15.12)	1797	0.00
03/30/2000	13.83	(16.17)	1156	0.00
03/31/2000	14.70	(15.30)	1678	0.00
Avg or Tot	14.19	(15.81)	1398	1.86

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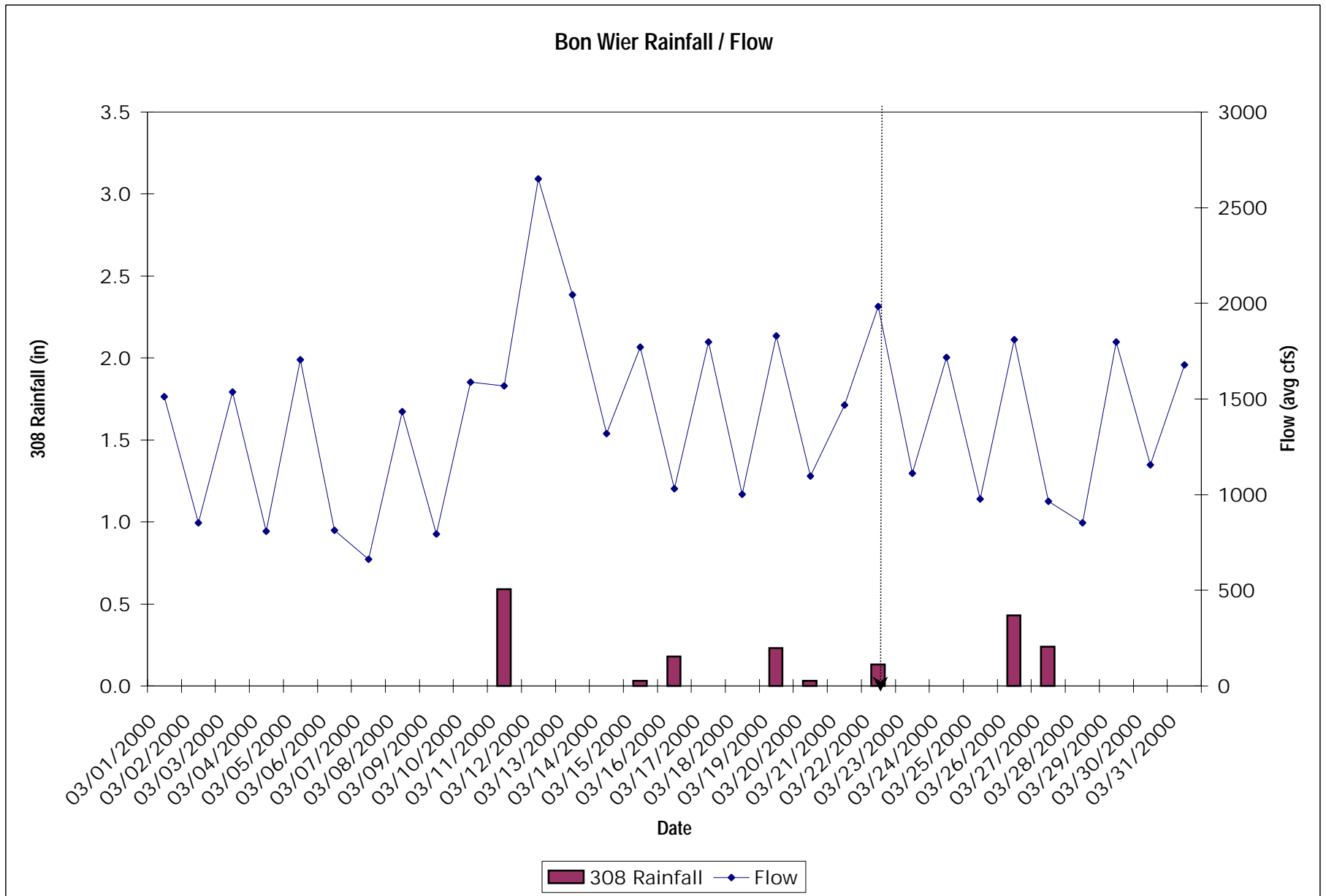
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 3/22/2000

Sabine River Authority of Texas

March 2000



SABINE RIVER AUTHORITY OF TEXAS

Ruliff Weather and River Data

March 2000

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow cfs</i>	<i>Flow acft</i>	<i>Flow avg</i>	<i>309 Rainfall</i>
03/01/2000	14.61	(9.39)	1295	2569	1295	0.00
03/02/2000	14.71	(9.29)	1329	2636	1312	0.00
03/03/2000	15.05	(8.95)	1448	2872	1357	0.00
03/04/2000	14.81	(9.19)	1364	2705	1359	0.00
03/05/2000	15.01	(8.99)	1433	2842	1374	0.00
03/06/2000	15.03	(8.97)	1441	2858	1385	0.00
03/07/2000	15.19	(8.81)	1500	2975	1401	0.00
03/08/2000	14.23	(9.77)	1167	2315	1372	0.00
03/09/2000	14.21	(9.79)	1160	2301	1349	0.00
03/10/2000	14.78	(9.22)	1354	2686	1349	0.00
03/11/2000	14.70	(9.30)	1326	2630	1347	0.22
03/12/2000	15.74	(8.26)	1709	3390	1377	0.00
03/13/2000	17.28	(6.72)	2482	4923	1462	0.00
03/14/2000	17.71	(6.29)	2740	5435	1553	0.00
03/15/2000	16.88	(7.12)	2256	4475	1600	0.35
03/16/2000	16.27	(7.73)	1943	3854	1622	0.01
03/17/2000	15.90	(8.10)	1771	3513	1630	0.00
03/18/2000	15.67	(8.33)	1682	3336	1633	0.00
03/19/2000	15.82	(8.18)	1740	3451	1639	0.10
03/20/2000	15.92	(8.08)	1779	3529	1646	0.10
03/21/2000	15.86	(8.14)	1755	3481	1651	0.00
03/22/2000	15.64	(8.36)	1671	3314	1652	0.08
03/23/2000	16.48	(7.52)	2048	4062	1669	0.00
03/24/2000	16.15	(7.85)	1883	3735	1678	0.00
03/25/2000	15.79	(8.21)	1728	3427	1680	0.00
03/26/2000	15.63	(8.37)	1667	3306	1680	0.14
03/27/2000	15.77	(8.23)	1720	3412	1681	0.45
03/28/2000	15.72	(8.28)	1701	3374	1682	0.01
03/29/2000	14.87	(9.13)	1385	2747	1672	0.00
03/30/2000	15.28	(8.72)	1534	3043	1667	0.00
03/31/2000	15.72	(8.28)	1701	3374	1668	0.00
Avg or Tot	15.56	(8.44)	1668	102570		1.46

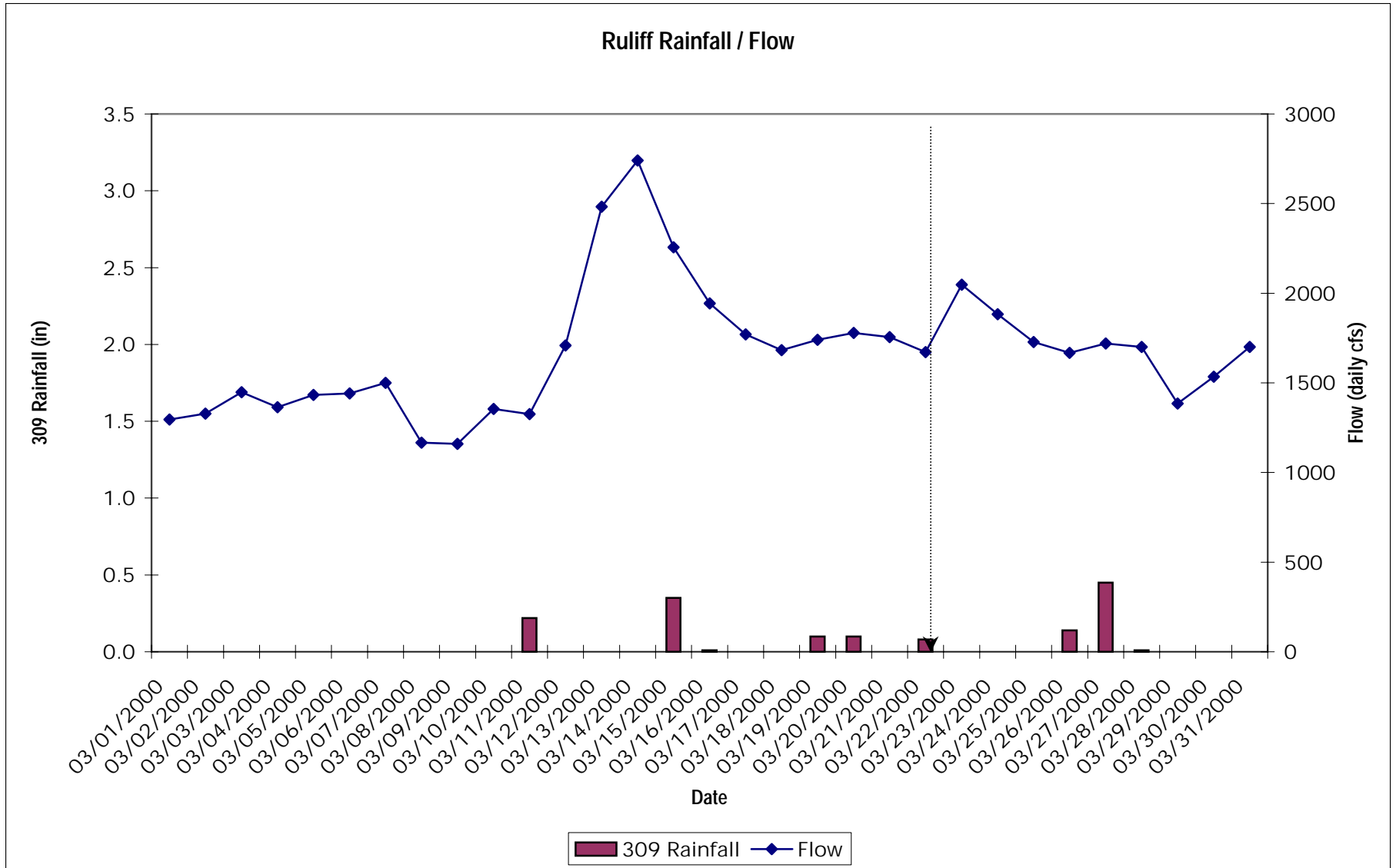
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 3/22/2000

SABINE RIVER AUTHORITY OF TEXAS

March 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

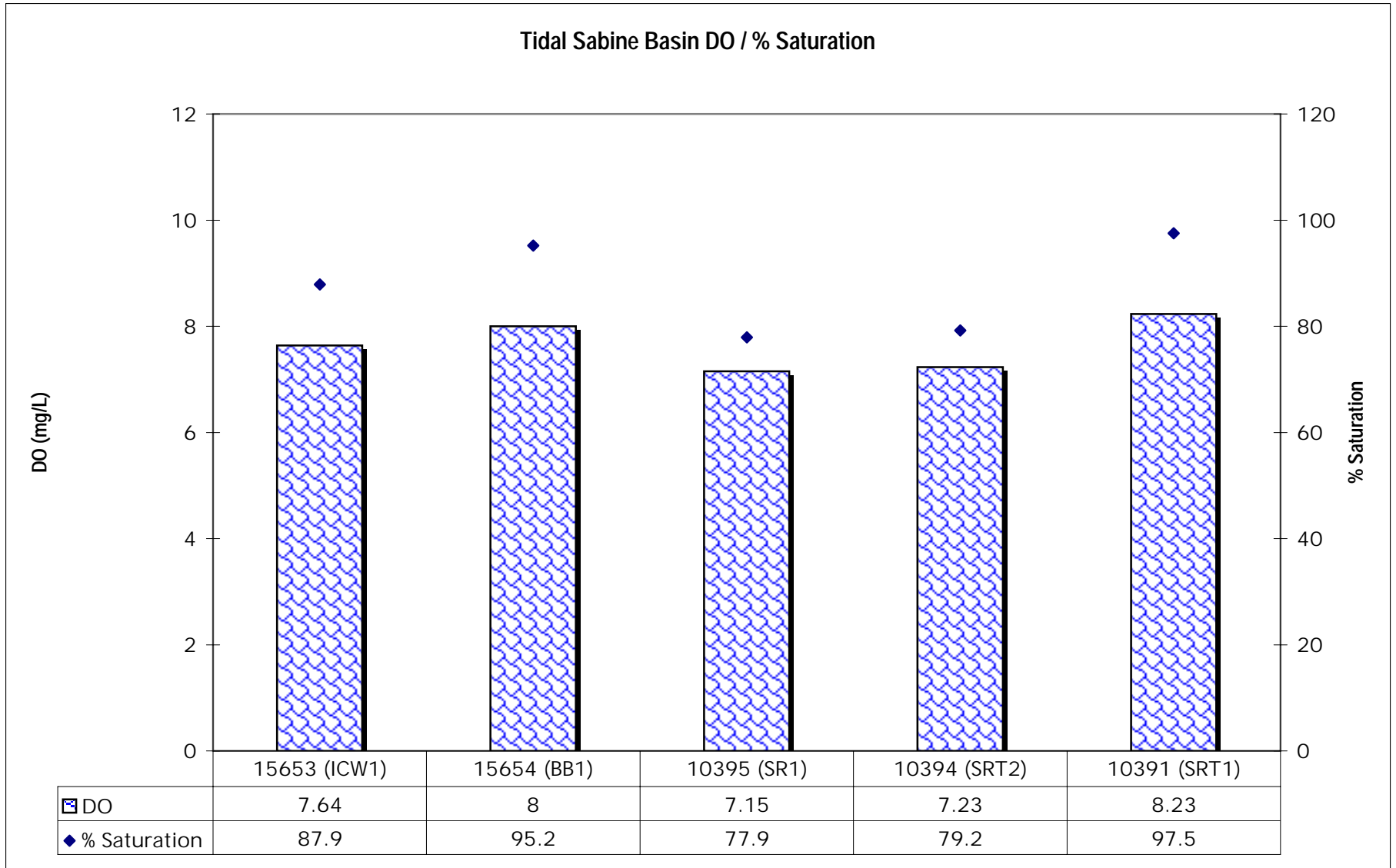
March 2000

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
3/21/00 10:10 AM	1.05	15653 (ICW1)	19.5	7.47	7.64	87.9	14520	8	0.76	10.6	29	*	*	*	*	< 0.02	< 1	*	*	4540	641
3/21/00 10:40 AM	1.01	15654 (BB1)	19.6	7.76	8	95.2	22520	13	0.84	7.12	16	*	*	*	*	< 0.02	< 1	*	*	7520	1080
3/21/00 9:07 AM	1.00	10395 (SR1)	19.5	7.18	7.15	77.9	342	*	0.56	19.3	20	*	*	*	0.17	< 0.02	7	*	*	21.7	72.4
3/21/00 9:28 AM	1.00	10394 (SRT2)	19.5	7.35	7.23	79.2	1571	< 1	0.59	15.8	13	*	*	*	0.15	< 0.02	4	*	*	389	86.1
3/21/00 10:55 AM	1.00	10391 (SRT1)	19.3	7.83	8.23	97.5	22900	14	0.8	6.23	7	*	*	*	*	< 0.02	< 1	*	*	7620	1090

*: Not sampled on this run

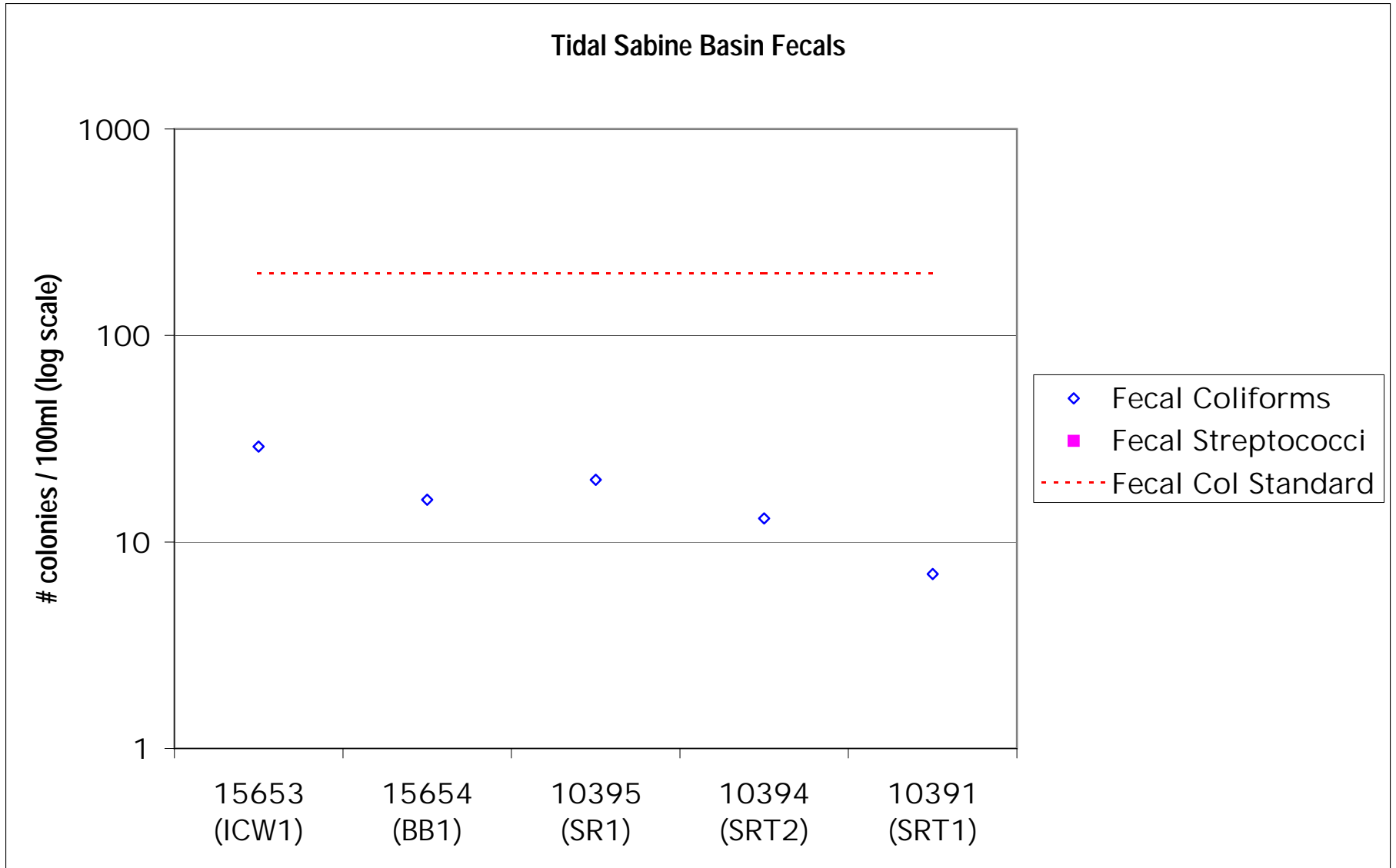
SABINE RIVER AUTHORITY OF TEXAS

March 2000



SABINE RIVER AUTHORITY OF TEXAS

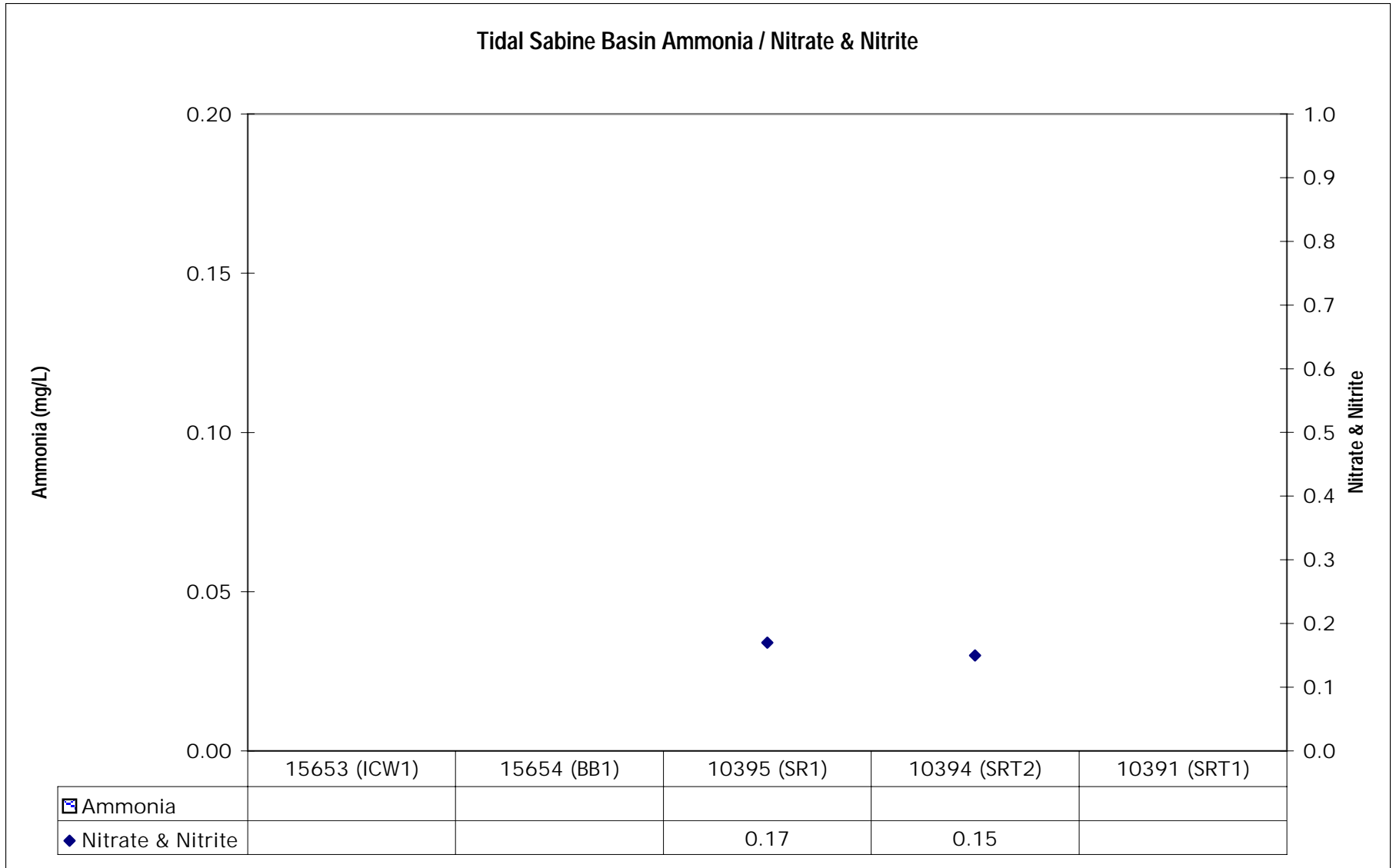
March 2000



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

SABINE RIVER AUTHORITY OF TEXAS

March 2000



Stations without Nitrate and Nitrite values were below detection limit on this run (see page 40).
 Values for ammonia were not obtained due to equipment failure.

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

March 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
3/21/00 10:10 AM	1.05	15653 (ICW1)	0.3	19.5	7.47	7.64	87.9	14520	8
			3	19.6	7.42	7.05	82.4	17880	11
			6.1	19.7	7.4	6.86	80.7	19190	1
3/21/00 10:40 AM	1.01	15654 (BB1)	0.3	19.6	7.76	8	95.2	22520	13
			3	19.5	7.73	7.68	91.3	23020	14
			6.5	19.5	7.71	7.65	91	23140	14
3/21/00 9:07 AM	1.00	10395 (SR1)	0.3	19.5	7.18	7.15	77.9	342	*
			2.5	19.4	7.19	7.2	78.2	347	*
			4.9	19.4	7.26	7.03	76.1	350	*
3/21/00 9:28 AM	1.00	10394 (SRT2)	0.3	19.5	7.35	7.23	79.2	1571	< 1
			2	20.5	7.64	6.97	76.6	1995	1
			4	19.7	7.17	5.14	60.5	19320	11
			6	19.5	7.1	4.09	48.5	22640	13
			9.2	19.3	6.94	3.17	37.8	25770	15
3/21/00 10:55 AM	1.00	10391 (SRT1)	0.3	19.3	7.83	8.23	97.5	22900	14
			3	19.3	7.8	7.6	90.6	25590	15
			6.00	19.60	7.77	7.23	88.0	28720	17
			10.50	19.70	7.74	7.19	87.7	29480	18

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

March 2000

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
03/01/2000	0.00	1.54	(2.46)	77	57	63	0.00
03/02/2000	0.00	1.08	(2.92)	82	61	65	0.00
03/03/2000	0.00	1.73	(2.27)	78	65	68	0.00
03/04/2000	0.00	0.57	(3.43)	81	42	42	0.00
03/05/2000	0.00	1.06	(2.94)	66	40	41	0.00
03/06/2000	0.00	1.57	(2.43)	70	41	53	0.00
03/07/2000	0.00	1.63	(2.37)	78	53	67	0.00
03/08/2000	0.00	1.66	(2.34)	69	66	67	0.00
03/09/2000	0.00	1.15	(2.85)	80	67	71	0.00
03/10/2000	0.00	1.10	(2.90)	71	69	69	0.00
03/11/2000	0.63	0.81	(3.19)	81	51	51	0.71
03/12/2000	0.00	(0.52)	(4.52)	62	37	38	0.00
03/13/2000	0.00	0.75	(3.25)	65	37	39	0.00
03/14/2000	0.00	1.01	(2.99)	69	39	49	0.00
03/15/2000	0.88	1.84	(2.16)	68	49	62	0.71
03/16/2000	0.00	2.11	(1.89)	74	62	63	0.01
03/17/2000	0.00	1.56	(2.44)	78	57	58	0.00
03/18/2000	0.00	1.76	(2.24)	76	57	58	0.00
03/19/2000	0.05	1.74	(2.26)	79	49	49	0.09
03/20/2000	0.14	1.14	(2.86)	65	37	37	0.14
03/21/2000	0.00	1.91	(2.09)	71	37	53	0.00
03/22/2000	0.02	1.61	(2.39)	71	53	60	0.06
03/23/2000	0.00	1.26	(2.74)	80	59	59	0.00
03/24/2000	0.00	1.10	(2.90)	79	58	65	0.00
03/25/2000	0.00	0.88	(3.12)	80	61	63	0.00
03/26/2000	0.00	0.73	(3.27)	82	60	61	0.00
03/27/2000	0.88	0.94	(3.06)	81	60	61	1.70
03/28/2000	0.01	1.06	(2.94)	81	48	49	0.00
03/29/2000	0.00	2.01	(1.99)	81	49	70	0.00
03/30/2000	0.00	1.61	(2.39)	84	64	64	0.00
03/31/2000	0.00	1.00	(3.00)	81	53	54	0.00
Avg or Tot	2.61	1.27	(2.73)	75	53	57	3.42

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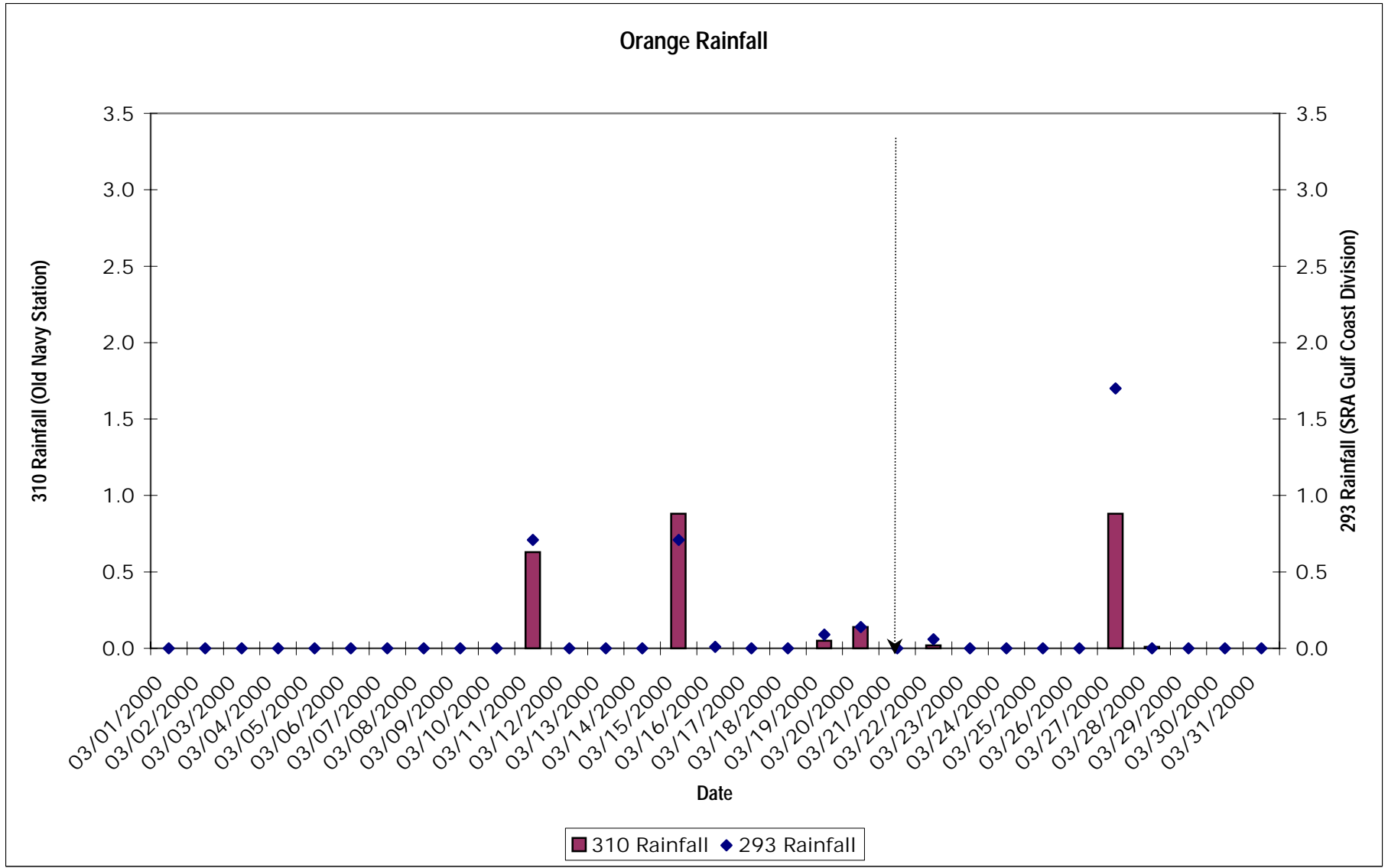
Appx. 8 am

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 3/21/2000

SABINE RIVER AUTHORITY OF TEXAS

March 2000



Tidal Sabine Basin Sampled on 3/21/2000