
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Summary for July 2000. Water quality sampling was performed July 18 through July 20. Daytime high air temperatures during the seven days prior to the sampling dates was in the upper 90's and low 100's in the Upper and Lower Basin. Nighttime lows were in the 70's. There was no significant rainfall in the 14 days prior to the sample run.

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

For the July sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. Hot, dry conditions and warming of surface waters were the primary causes for some elevated data points for this month. Lake Fork and Tawakoni Reservoirs were thermally stratified at around five meters. Percent saturation of oxygen was over 100% at most reservoir sites and at four river sites (SR21, SR19, SR11, and SR10). Chlorophyll *a* was high at most of the reservoir sites, with a strong correlation between high algal growth and super saturation of the water with oxygen. Water temperature was in the low 30's (degrees C) near the surface at most sites. SR19 slightly exceeded stream standards for temperature. Orthophosphate was elevated at LT23D and pH was slightly under stream standards at BS18.

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LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

July WQM sampling results were indicative of high water quality at most sites. Toledo Bend Reservoir was near pool level during this sampling event. Profiles taken at deep-water stations on the reservoir exhibited thermal stratification with near-anoxic conditions near the bottom. Oxygen levels at stations TB6N, TB6I, TB6M, and TB6 were below stream standards. pH levels at stations TB6J and TB6K were slightly above stream standard limits. Station BA4 had higher nitrite/nitrate levels and conductivity readings compared to other stations. This station 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. Profiles were well-mixed with no discernable salt-water wedge at most sites. The greatest salinity measured occurred at SRT1 with a reading of 16 ppt at 9.6 meters depth.

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:

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Water Quality Monitoring Program

July 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

July 2000

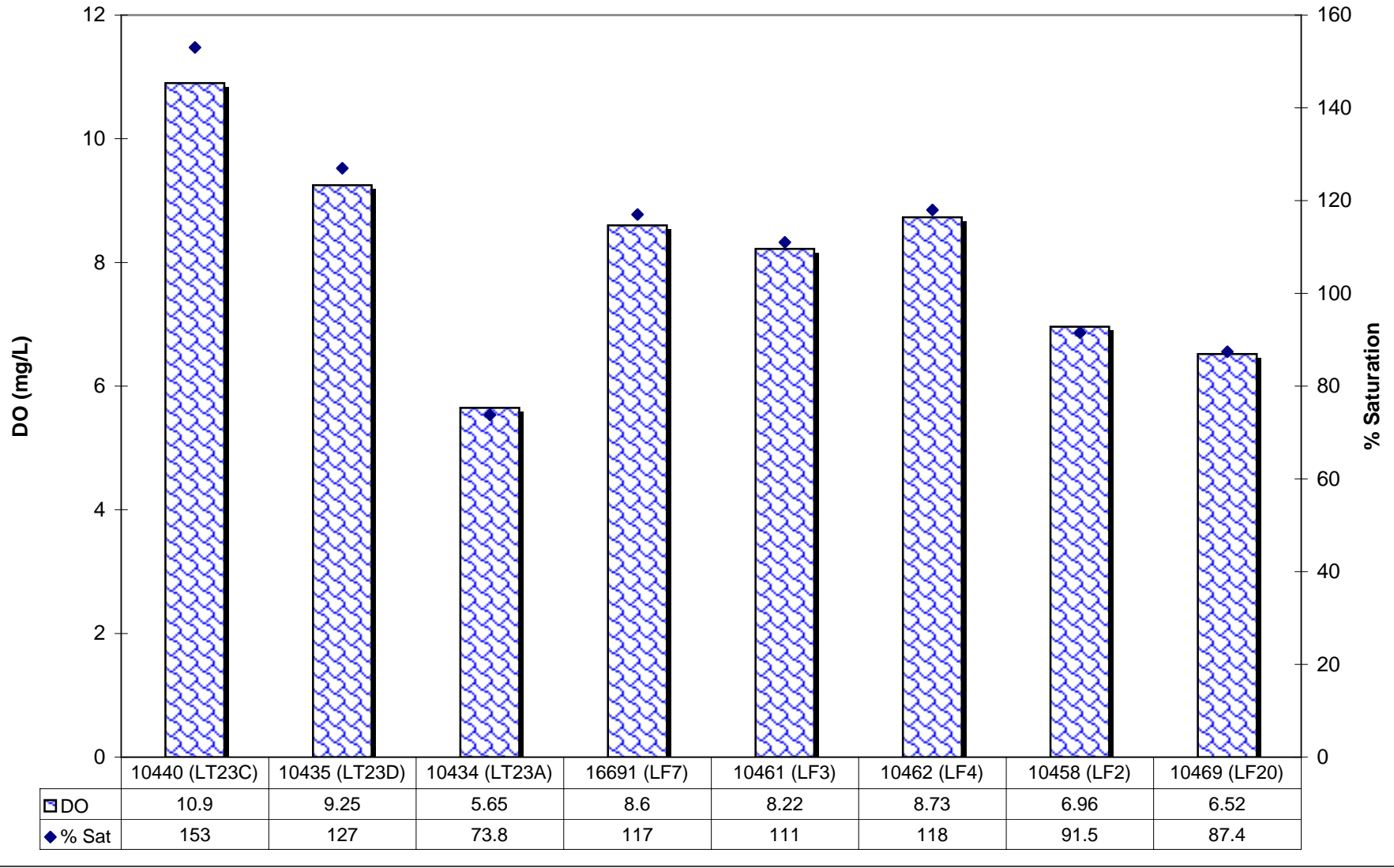
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
7/18/00 3:07 PM	7.00	10440 (LT23C)	33.3	8.69	10.9	153	183	*	0.67	10.6	< 2	*	44.9	0.024	< 0.02	< 0.02	8	72	68	4.8	9.1
7/18/00 1:55 PM	7.00	10435 (LT23D)	32.2	8.24	9.25	127	182	*	0.66	9.87	< 2	*	14.4	0.006	< 0.02	0.24	8	75	72	4.2	6.1
7/18/00 12:29 PM	7.00	10434 (LT23A)	29.3	7.59	5.65	73.8	196	*	1.02	3.65	< 2	*	58.5	0.01	< 0.02	< 0.02	7	76	76	4.8	9.4
7/18/00 11:10 AM	6.12	16691 (LF7)	31.8	8.56	8.6	117	131	*	0.92	4.82	< 2	*	46.5	0.008	< 0.02	0.05	8	27	32	8.5	12.6
7/18/00 9:27 AM	6.12	10461 (LF3)	31.4	8.69	8.22	111	151	*	0.89	4.16	< 2	*	44.9	0.019	< 0.02	< 0.02	9	28	36	12.2	14.8
7/18/00 10:16 AM	6.12	10462 (LF4)	31.3	8.79	8.73	118	148	*	0.89	4.52	2	*	47.3	0.008	< 0.02	< 0.02	8	26	36	10.8	15.8
7/18/00 8:17 AM	6.12	10458 (LF2)	29.7	7.2	6.96	91.5	146	*	1.02	3.79	< 2	*	44.9	0.018	< 0.02	< 0.02	7	27	36	11.4	16.1
7/18/00 5:16 PM	6.10	10469 (LF20)	30.7	6.37	6.52	87.4	195	*	0.39	37.6	37	*	*	0.027	0.23	< 0.02	8	29	48	19.2	21.4
7/19/00 7:57 AM	6.02	10467 (BS18)	27.8	5.95	5.02	63.9	154	*	0.82	12.5	60	*	*	0.077	0.3	< 0.02	10	28	40	16.6	10
7/18/00 4:28 PM	6.00	10430 (SR21)	31.4	6.86	8.16	110	278	*	0.34	36	22	*	*	0.061	< 0.02	< 0.02	8	78	84	19.7	20.1
7/18/00 5:37 PM	6.00	10429 (SR19)	32.8	7.12	9.5	132	244	*	0.51	23.1	13	*	*	0.018	< 0.02	0.03	8	56	48	20.5	20.1
7/19/00 8:25 AM	5.00	10428 (SR17)	31.1	6.18	5.62	75.8	233	*	0.41	21.5	3	*	*	0.023	< 0.02	< 0.02	8	54	64	20.4	18.7
7/19/00 9:13 AM	5.00	10427 (SR16)	30.8	6.36	5.45	73.2	258	*	0.58	31.6	17	*	*	0.036	< 0.02	< 0.02	8	56	68	26.6	19.1
7/19/00 9:57 AM	5.00	10426 (SR15)	31.1	6.34	5.79	78.1	264	*	0.54	25.5	17	*	*	0.024	< 0.02	< 0.02	8	57	72	27.3	19
7/19/00 10:37 AM	5.00	10423 (SR14)	30.9	6.49	6.28	84.5	289	*	0.54	28.5	30	*	*	0.027	0.67	< 0.02	8	56	72	31	23
7/19/00 11:30 AM	5.00	13628 (SR11)	31.7	6.75	8.65	118	353	*	0.48	26.5	12	*	*	0.027	< 0.02	< 0.02	9	68	80	36.2	37.7
7/19/00 12:05 PM	5.00	10415 (SR10)	31.7	6.54	7.41	101	306	*	0.49	26	10	*	*	0.026	< 0.02	< 0.02	10	63	72	31.2	28.4

*: Not sampled on this run

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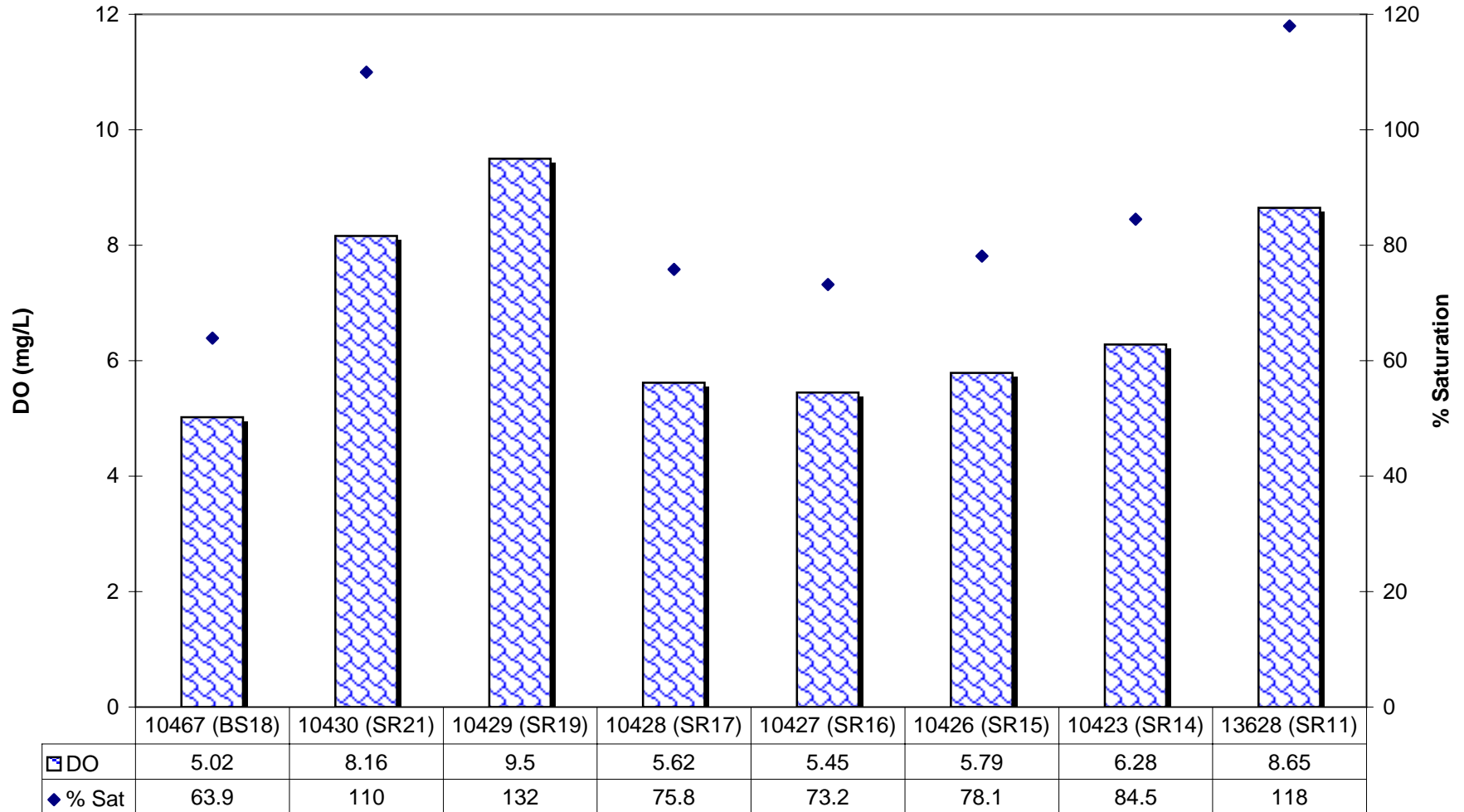
Upper Sabine Basin DO / % Saturation (1 of 2)



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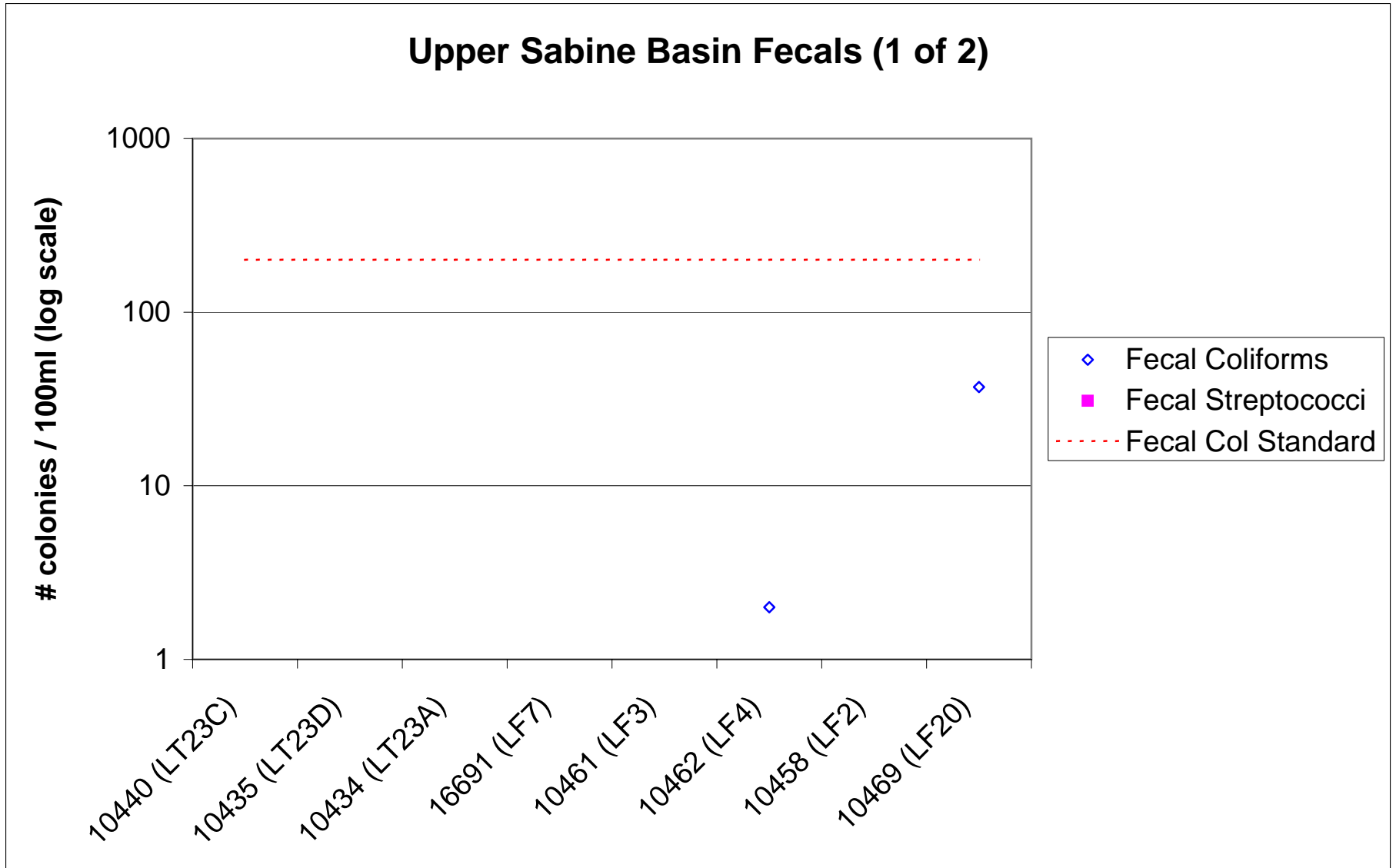
July 1999

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



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July 2000

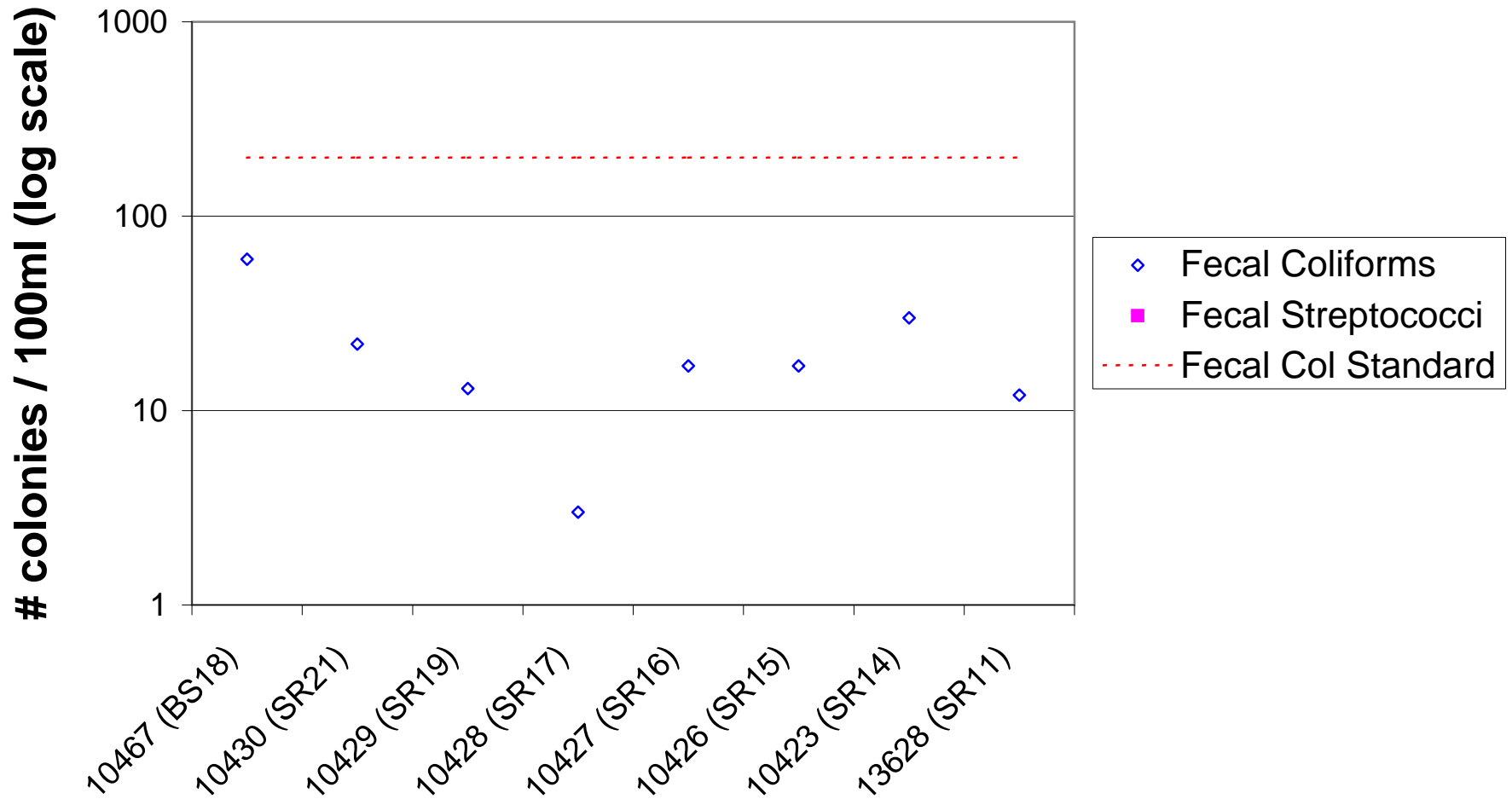


Stations without values were below detection limit or not sampled on this run (see page 2).

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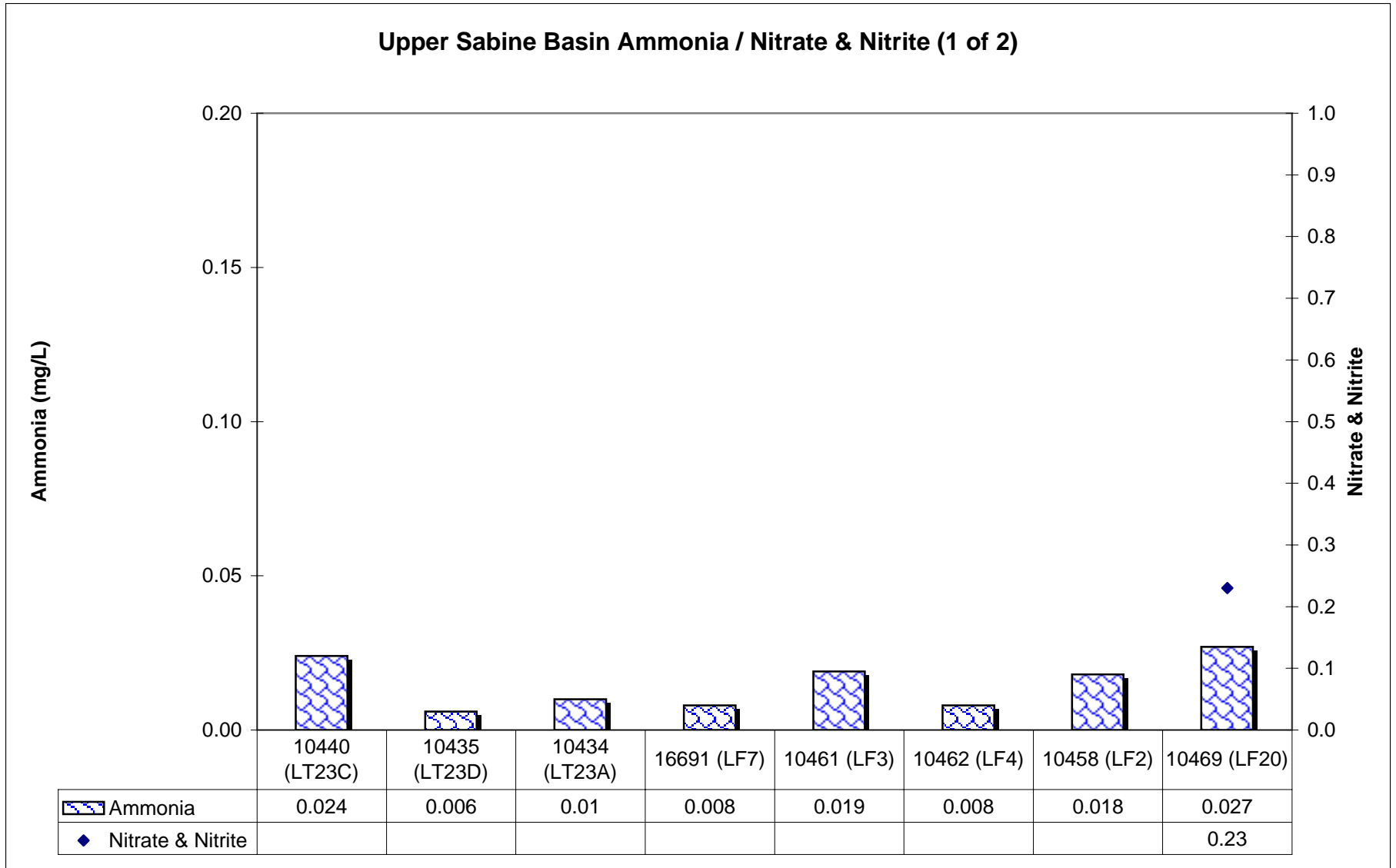
July 2000

Upper Sabine Basin Fecals (2 of 2)



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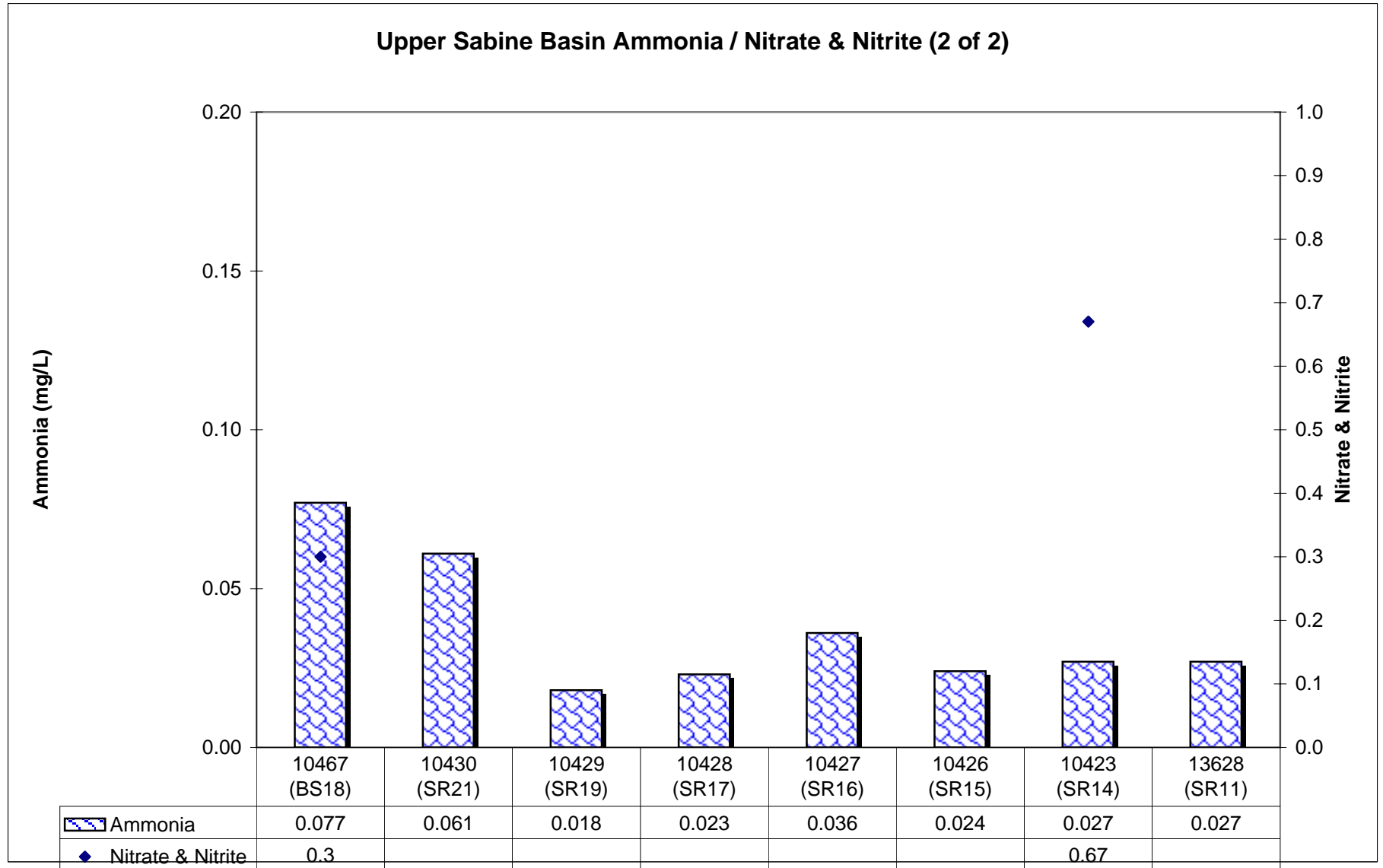
July 2000



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

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July 2000



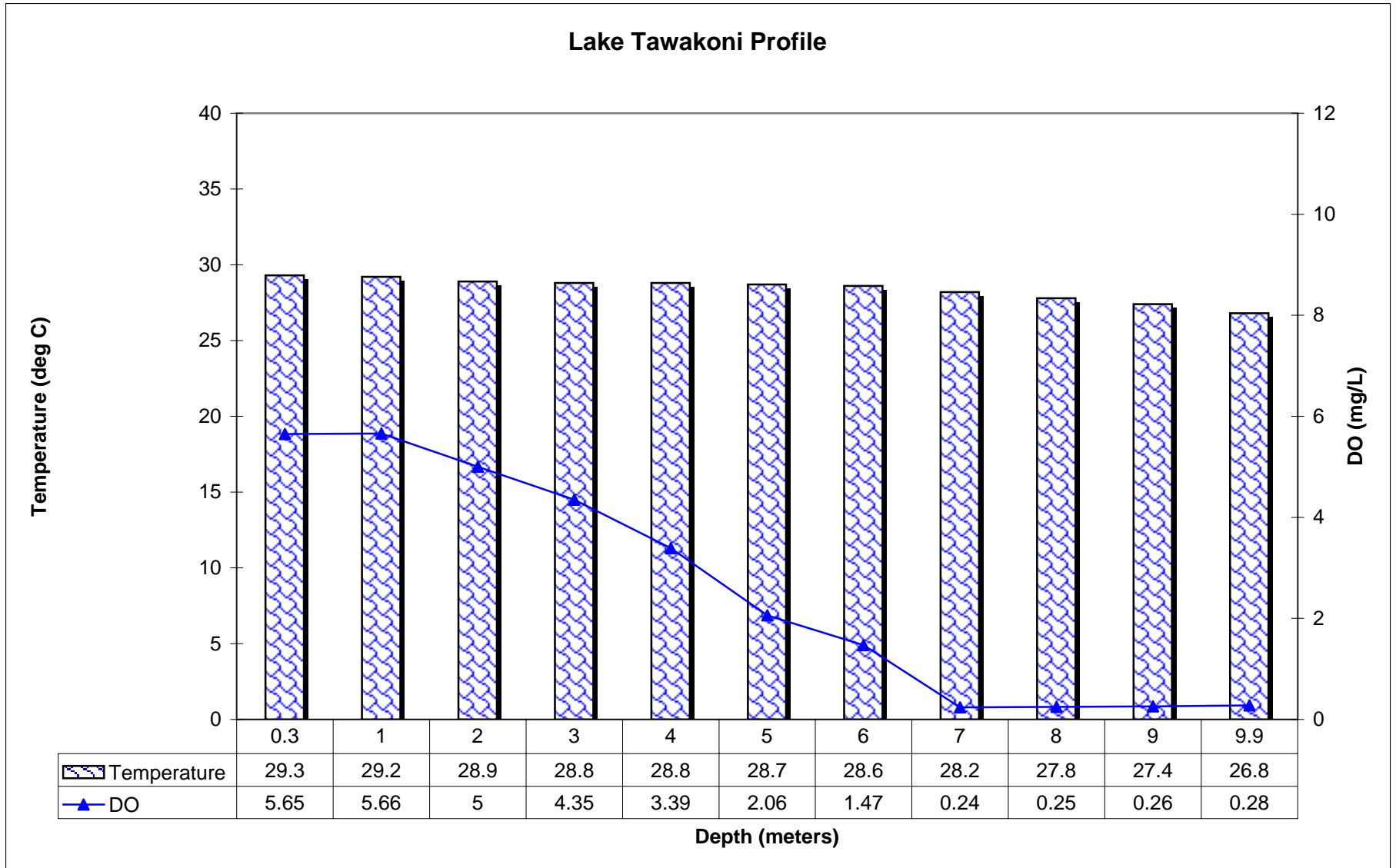
Stations without values were below detection limit on this run (see page 2).

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Upper Basin Profiles
July 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
7/18/00 3:07 PM	7.00	10440 (LT23C)	0.3	33.3	8.69	10.9	153	183
			1	33.2	8.65	10.9	153	183
			2	32.9	8.58	10.3	143	183
			3	32.2	8.44	8.47	116	180
			4	32	8.43	8.08	111	180
			4.49	31.9	8.29	7.67	105	180
7/18/00 1:55 PM	7.00	10435 (LT23D)	0.3	32.2	8.24	9.25	127	182
			1	32.1	8.13	8.91	123	182
			2	31.6	7.67	6.92	96.3	184
			3	30.1	6.96	1.24	16.4	192
			4	30.1	6.89	0.84	11.1	193
			5	30	6.84	0.58	7.6	193
			6	29.5	6.76	0.24	3.1	198
			7	29.3	6.67	0.25	3.3	201
7/18/00 12:29 PM	7.00	10434 (LT23A)	0.3	29.3	7.59	5.65	73.8	196
			1	29.2	7.5	5.66	74.3	195
			2	28.9	7.32	5	64.7	195
			3	28.8	7.13	4.35	56.4	195
			4	28.8	6.95	3.39	44.1	196
			5	28.7	6.8	2.06	27.2	197
			6	28.6	6.69	1.47	19.2	197
			7	28.2	6.57	0.24	3	199
			8	27.8	6.52	0.25	3.2	200
			9	27.4	6.48	0.26	3.3	201
7/18/00 11:10 AM	6.12	16691 (LF7)	0.3	31.8	8.56	8.6	117	131
			1	31.7	8.55	8.58	117	131
			2	31.7	8.47	8.43	115	131
			3	31.6	8.24	7.73	105	130
			4	31.6	7.9	7.11	96.7	129
			5	31.4	7.16	6.58	89.7	128
07/18/2000 9:27	6.12	10461 (LF3)	5.73	29.9	6.31	0.3	4	144
			0.3	31.4	8.69	8.22	111	151
			1	31.4	8.73	8.13	110	151
			2	31.3	8.74	7.92	107	151
			3	31.3	8.59	7.87	106	151
			4	31.3	8.23	7.72	104	150
			5	31	7.03	5.3	71.5	148
			6	28.9	6.28	0.22	2.9	155
07/18/2000 10:16	6.12	10462 (LF4)	8	27.4	6.26	0.23	3	160
			10.1	26.4	6.29	0.26	3.2	179
			0.3	31.3	8.79	8.73	118	148
			1	31.3	8.76	8.66	117	147
			2	31.2	8.64	8.08	109	145
			3	31	8.32	7.07	95.1	142
			4	30.9	8.29	7.02	94.4	142
			5	30.9	7.64	6.98	93.8	142
			6	29.9	6.2	0.54	7.1	129
			8	27.4	6.27	0.25	3.3	137
07/18/2000 10:16	6.12	10462 (LF4)	10	25.7	6.41	0.28	3.4	155
			11.1	24.2	6.52	0.38	4.5	181
			0.3	29.7	7.2	6.96	91.5	146
			1	29.7	7.1	6.87	90.4	146
			2	29.7	7	6.72	88.4	146
			3	29.7	6.92	6.67	88	146
			4	29.6	6.63	6.32	83	146
			5	29	6.37	1.77	23	147
			6	28.5	6.33	0.44	5.6	150
			7	28.1	6.31	0.31	4	149
			9	26.5	6.33	0.21	2.8	155
			11	24.1	6.35	0.2	2.4	166
			13	21.7	6.42	0.2	2.3	175
07/18/2000 8:17	6.12	10458 (LF2)	15.7	17.4	6.38	0.23	2.3	275

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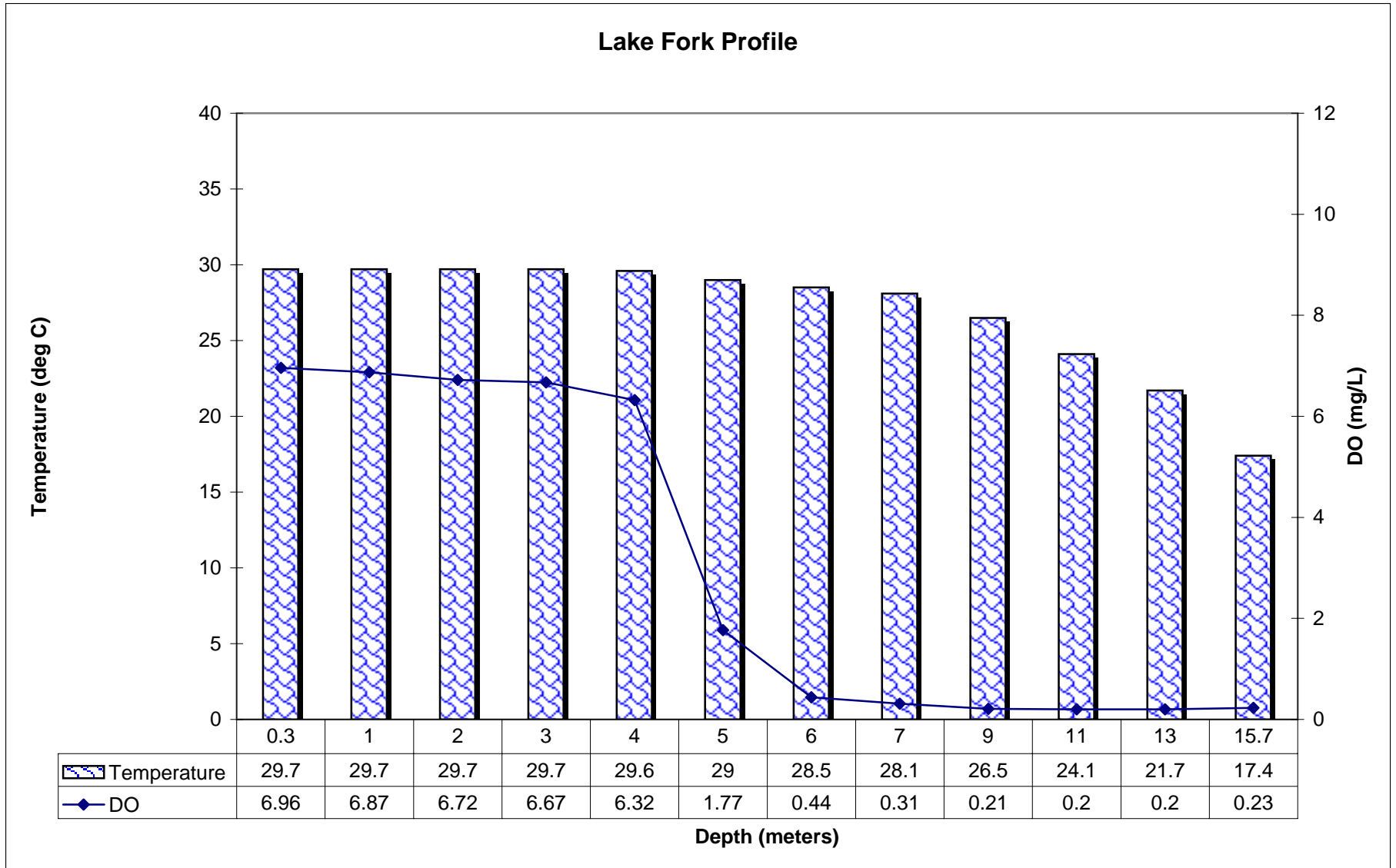


For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

D.O. for depth of 11.2 meters was below detection limit.

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For Station 10458 (LF2): LAKE FORK RESERVOIR NEAR DAM 300 METERS NORTHWEST OF SPILLWAY AT AT MID-RESERVOIR

D.O. for 9 and 15.6 meters were below detection limit.

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Lake Tawakoni Weather and Reservoir Data

July 2000

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
07/01/2000	437.90	0.40	355	80	72	0.96	0.02
07/02/2000	437.87	0.37	355	87	75	0.02	0.18
07/03/2000	437.82	0.32	235	88	75	0.00	0.17
07/04/2000	437.78	0.28	235	92	70	0.00	0.38
07/05/2000	437.75	0.25	235	92	73	0.00	0.31
07/06/2000	437.72	0.22	125	93	71	0.00	0.37
07/07/2000	437.69	0.19	125	94	73	0.00	0.25
07/08/2000	437.66	0.16	125	97	76	0.00	0.46
07/09/2000	437.63	0.13	45	98	76	0.00	0.35
07/10/2000	437.60	0.10	45	97	76	0.00	0.35
07/11/2000	437.56	0.06	45	95	75	0.00	0.56
07/12/2000	437.54	0.04	45	95	73	0.00	0.35
07/13/2000	437.52	0.02	25	98	76	0.00	0.45
07/14/2000	437.49	(0.01)	5	102	80	0.00	0.26
07/15/2000	437.48	(0.02)	5	102	77	0.00	0.30
07/16/2000	437.46	(0.04)	5	103	77	0.00	0.43
07/17/2000	437.43	(0.07)	5	102	76	0.00	0.39
07/18/2000	437.41	(0.09)	5	100	80	0.00	0.30
07/19/2000	437.38	(0.12)	5	100	76	0.00	0.26
07/20/2000	437.35	(0.15)	5	102	75	0.00	0.52
07/21/2000	437.34	(0.16)	5	105	74	0.00	0.35
07/22/2000	437.31	(0.19)	5	102	77	0.00	0.36
07/23/2000	437.29	(0.21)	5	95	70	0.00	0.30
07/24/2000	437.25	(0.25)	5	90	66	0.00	0.36
07/25/2000	437.20	(0.30)	5	90	67	0.00	0.35
07/26/2000	437.18	(0.32)	5	92	68	0.00	0.31
07/27/2000	437.15	(0.35)	5	99	73	0.00	0.34
07/28/2000	437.14	(0.36)	5	96	70	0.00	0.26
07/29/2000	437.11	(0.39)	5	99	74	0.00	0.40
07/30/2000	437.10	(0.40)	5	96	70	0.00	0.29
07/31/2000	437.08	(0.42)	5	97	70	0.00	0.36
Avg or Tot	437.46	(0.04)	67	96	74	0.98	10.34

	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.					

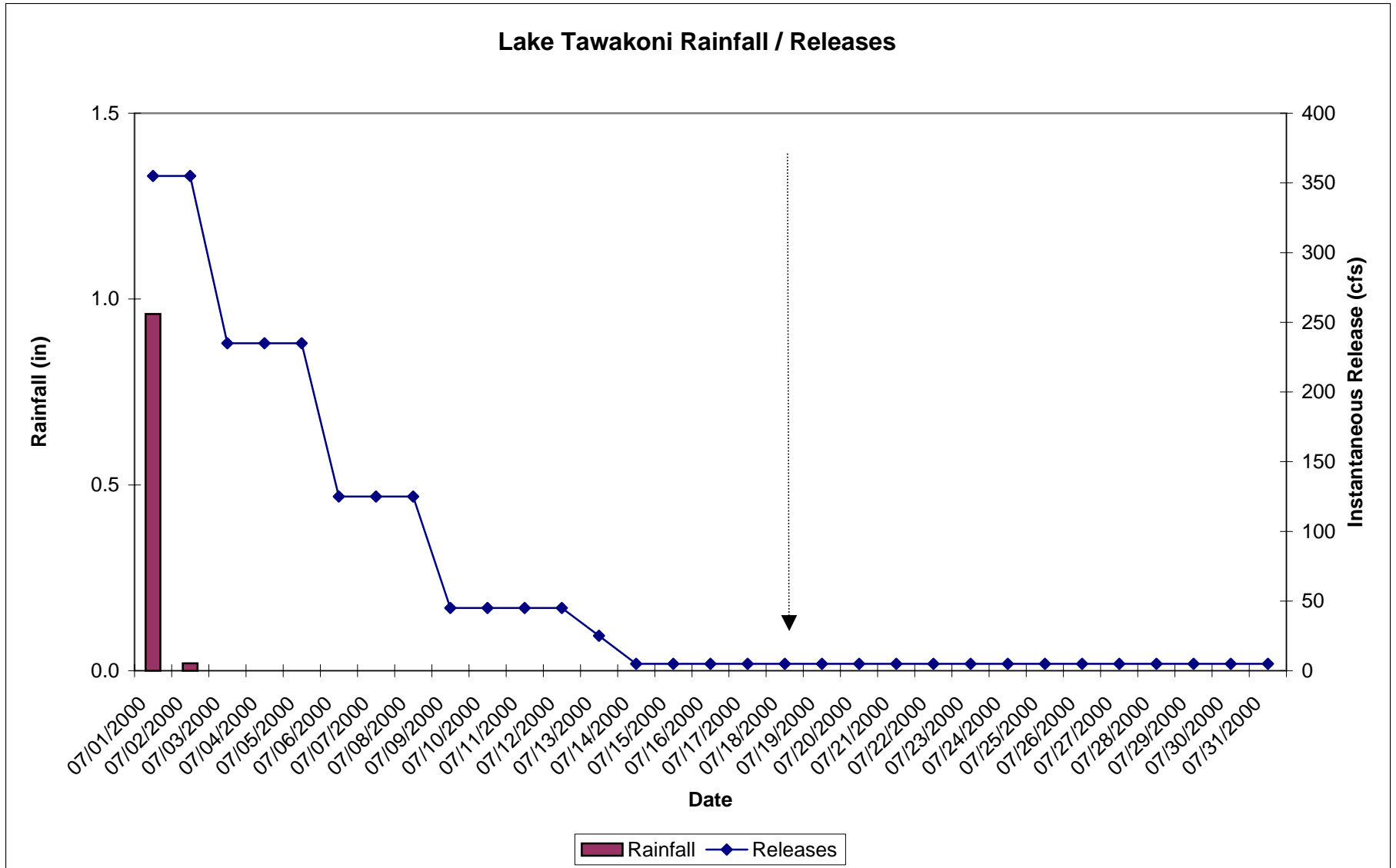
NR: No Reading

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

Lake Tawakoni Sampled on 7/18/2000

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Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

July 2000

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
07/01/2000	403.30	0.30	7128	2129	84	72	0.60	0.00
07/02/2000	403.21	0.21	738	2129	90	74	0.00	0.14
07/03/2000	403.18	0.18	738	738	82	74	0.00	0.24
07/04/2000	403.13	0.13	738	738	90	74	0.00	0.34
07/05/2000	403.14	0.14	738	738	90	72	0.00	0.23
07/06/2000	403.09	0.09	508	48	92	72	0.00	0.46
07/07/2000	403.09	0.09	48	48	92	74	0.00	0.29
07/08/2000	403.09	0.09	48	48	100	74	0.00	0.33
07/09/2000	403.09	0.09	48	48	98	76	0.00	0.31
07/10/2000	403.04	0.04	48	48	96	76	0.00	0.41
07/11/2000	403.04	0.04	48	48	94	76	0.00	0.40
07/12/2000	403.04	0.04	48	48	96	74	0.00	0.36
07/13/2000	402.99	(0.01)	48	48	95	78	0.00	0.28
07/14/2000	402.99	(0.01)	48	48	98	82	0.00	0.29
07/15/2000	402.99	(0.01)	48	48	99	76	0.00	0.29
07/16/2000	402.94	(0.06)	48	48	102	78	0.00	0.27
07/17/2000	402.94	(0.06)	48	48	100	76	0.00	0.48
07/18/2000	402.89	(0.11)	48	48	100	76	0.00	0.43
07/19/2000	402.89	(0.11)	48	48	98	76	0.00	0.36
07/20/2000	402.84	(0.16)	48	48	100	76	0.00	0.22
07/21/2000	402.84	(0.16)	48	48	102	76	0.00	0.49
07/22/2000	402.79	(0.21)	48	48	99	76	0.00	0.36
07/23/2000	402.79	(0.21)	48	48	91	71	0.00	0.39
07/24/2000	402.74	(0.26)	48	48	89	66	0.00	0.37
07/25/2000	402.69	(0.31)	48	48	88	67	0.00	0.50
07/26/2000	402.69	(0.31)	48	48	91	68	0.00	0.28
07/27/2000	402.64	(0.36)	48	48	96	72	0.00	0.36
07/28/2000	402.64	(0.36)	48	48	94	72	0.00	0.26
07/29/2000	402.57	(0.43)	48	48	96	77	0.00	0.35
07/30/2000	402.59	(0.41)	48	48	94	72	0.45	0.00
07/31/2000	402.59	(0.41)	48	48	92	72	0.00	0.30
Avg or Tot	402.92	(0.08)	380	249	94	74	1.05	9.79

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

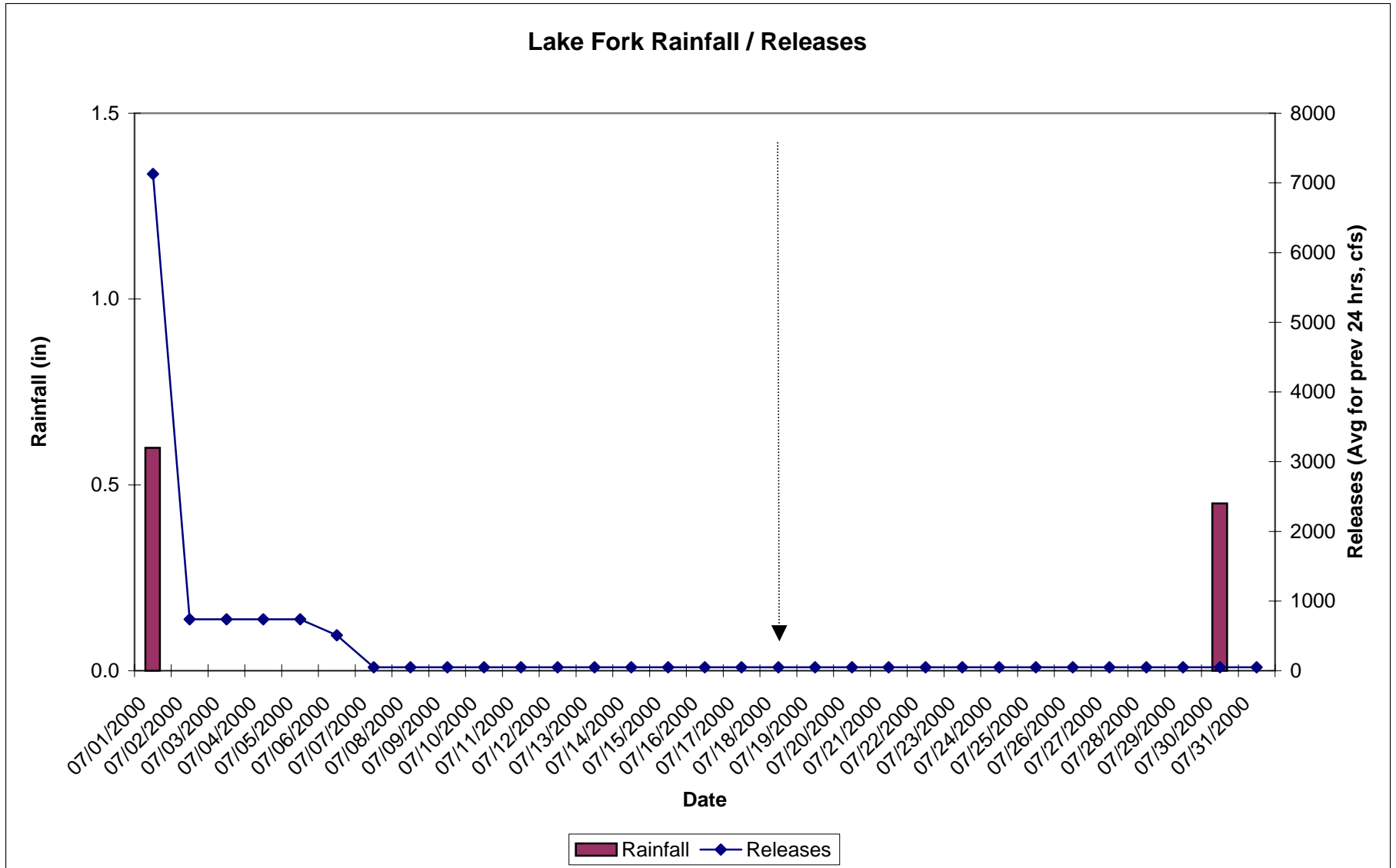
TOP: Top of Pool = 403 Feet M.S.L.

FRZN: Gauge Frozen

Lake Fork Sampled on 7/18/2000

SABINE RIVER AUTHORITY OF TEXAS

July 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

July 2000

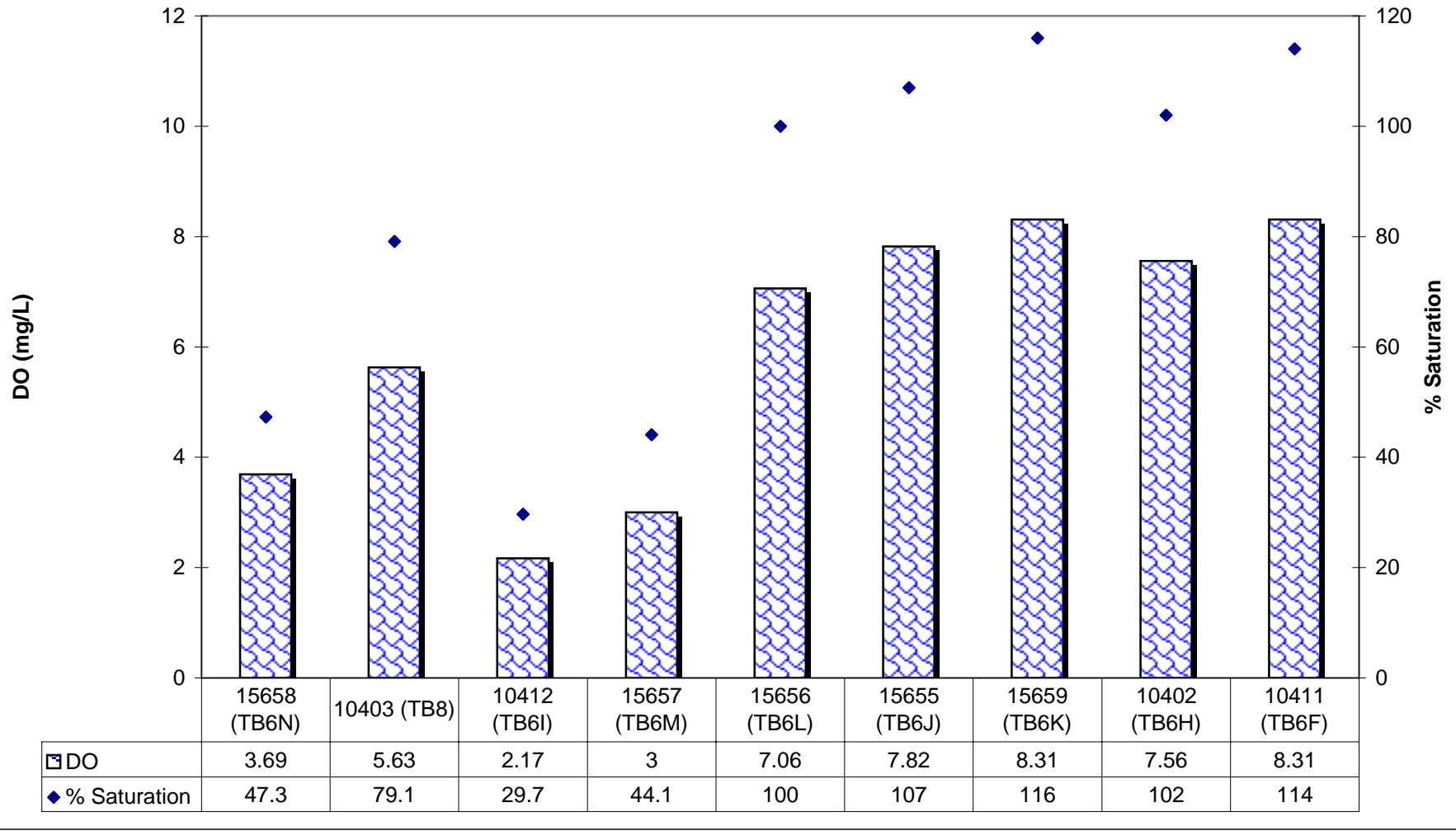
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
7/18/00 1:54 PM	4.10	15658 (TB6N)	27.3	7.16	3.69	47.3	312	*	0.6	6.93	27	13	*	0.101	0.29	0.07	14	87		32.5	10.7
7/19/00 12:50 PM	4.00	10403 (TB8)	33.6	6.56	5.63	79.1	249	*	0.58	13.3	7	*	*	0.062	0.3	< 0.02	12	56	68	21.4	19.1
7/19/00 1:41 PM	4.00	10412 (TB6I)	31.6	6.26	2.17	29.7	222	*	1	3.36	33	*	16.8	0.027	< 0.02	0.08	13	57	48	20.1	10.7
7/18/00 2:30 PM	4.00	15657 (TB6M)	31.5	6.73	3	44.1	157	*	1.58	2.06	42	*	*	0.052	0.05	< 0.02	11	33	*	18.6	9.2
7/18/00 2:10 PM	4.00	15656 (TB6L)	33.1	7.06	7.06	100	169	*	0.9	4.23	4	*	*	0.04	0.03	< 0.02	11	36	*	18.6	12.6
7/18/00 10:33 AM	4.00	15655 (TB6J)	32.5	8.58	7.82	107	188	*	1.42	2.79	< 2	*	*	0.036	< 0.02	< 0.02	8	35	*	20	18
7/18/00 1:20 PM	4.00	15659 (TB6K)	33.2	8.75	8.31	116	142	*	1.56	3.22	< 2	*	*	0.066	0.18	< 0.02	8	35	*	23	17.8
7/18/00 12:00 PM	4.00	10402 (TB6H)	31	8.46	7.56	102	186	*	1.52	1.41	15	*	4	0.038	< 0.02	< 0.02	8	34	*	19.8	17.5
7/18/00 11:10 AM	4.00	10411 (TB6F)	32.2	8.47	8.31	114	152	*	2.02	2.17	< 2	*	8.8	0.022	< 0.02	< 0.02	7	32	*	14.8	13.6
7/18/00 9:30 AM	4.00	10407 (TB6CN)	31.7	7.24	7.27	98.8	131	*	1.94	1.34	5	*	*	0.03	< 0.02	< 0.02	7	27	*	12	12
7/19/00 10:09 AM	4.00	10404 (TB6A)	31.6	8.15	7.55	103	145	*	3.8	0.69	< 2	*	2.4	< 0.001	< 0.02	< 0.02	6	28	*	13.6	14.6
7/19/00 1:05 PM	3.03	10340 (BA4)	31.6	7.46	7.48	101	500	*	0.21	27.6	100	88	*	0.102	0.47	0.04	8	53	*	25.1	106
7/19/00 11:10 AM	3.00	10401 (TB6S)	29.5	7.58	8.17	107	145	*	> 1.5	1.52	> 120	*	*	0.025	< 0.02	< 0.02	6	28	*	13.6	14.4
7/19/00 11:20 AM	3.00	10400 (TB6)	23.4	7.04	3.37	37.9	146	*	> 0.9	0.9	5	*	*	0.02	< 0.02	< 0.02	6	29	*	13.2	14.1
7/19/00 12:38 PM	3.00	10399 (SR5)	31.1	7.45	6.77	90.8	144	*	1.8	3.09	> 120	*	*	0.041	0.03	< 0.02	6	28	*	13.7	14.4
7/19/00 1:37 PM	3.00	10398 (SR3)	31.7	7.37	6.9	94.1	143	*	*	12.5	60	*	*	0.052	0.08	< 0.02	6	27	*	14.6	15
7/19/00 9:02 AM	2.05	10465 (BCC1)	27.3	7.11	7.37	92.6	24	*	> 0.6	10.4	> 240	*	*	0.02	0.08	< 0.02	5	14	*	5.3	1.4
7/19/00 8:15 AM	2.00	10397 (SR2)	30.3	6.77	5.24	69.5	147	*	0.68	13.3	31	*	*	0.033	< 0.02	< 0.02	8	26	*	14.1	15.6

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

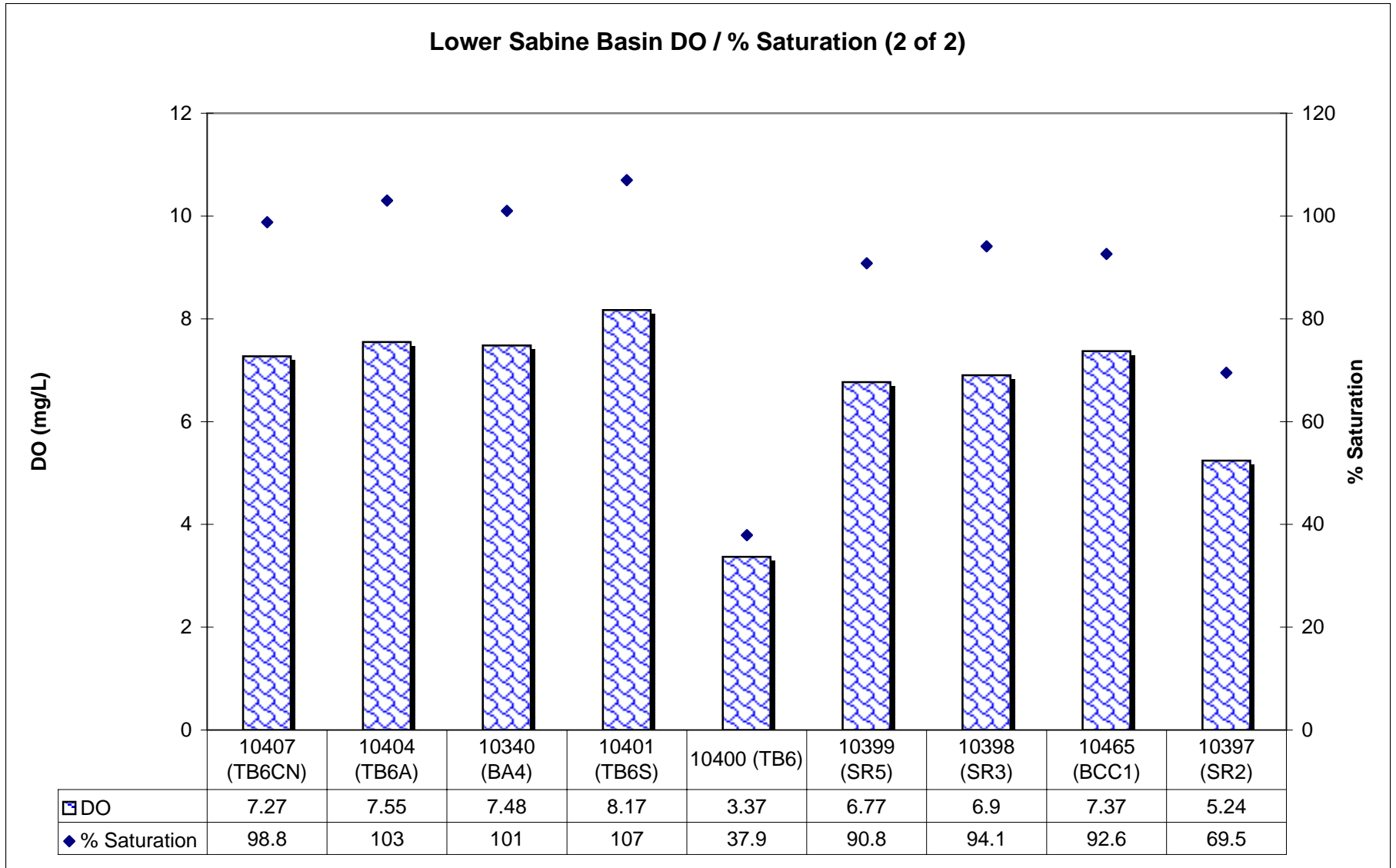
July 2000

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



SABINE RIVER AUTHORITY OF TEXAS

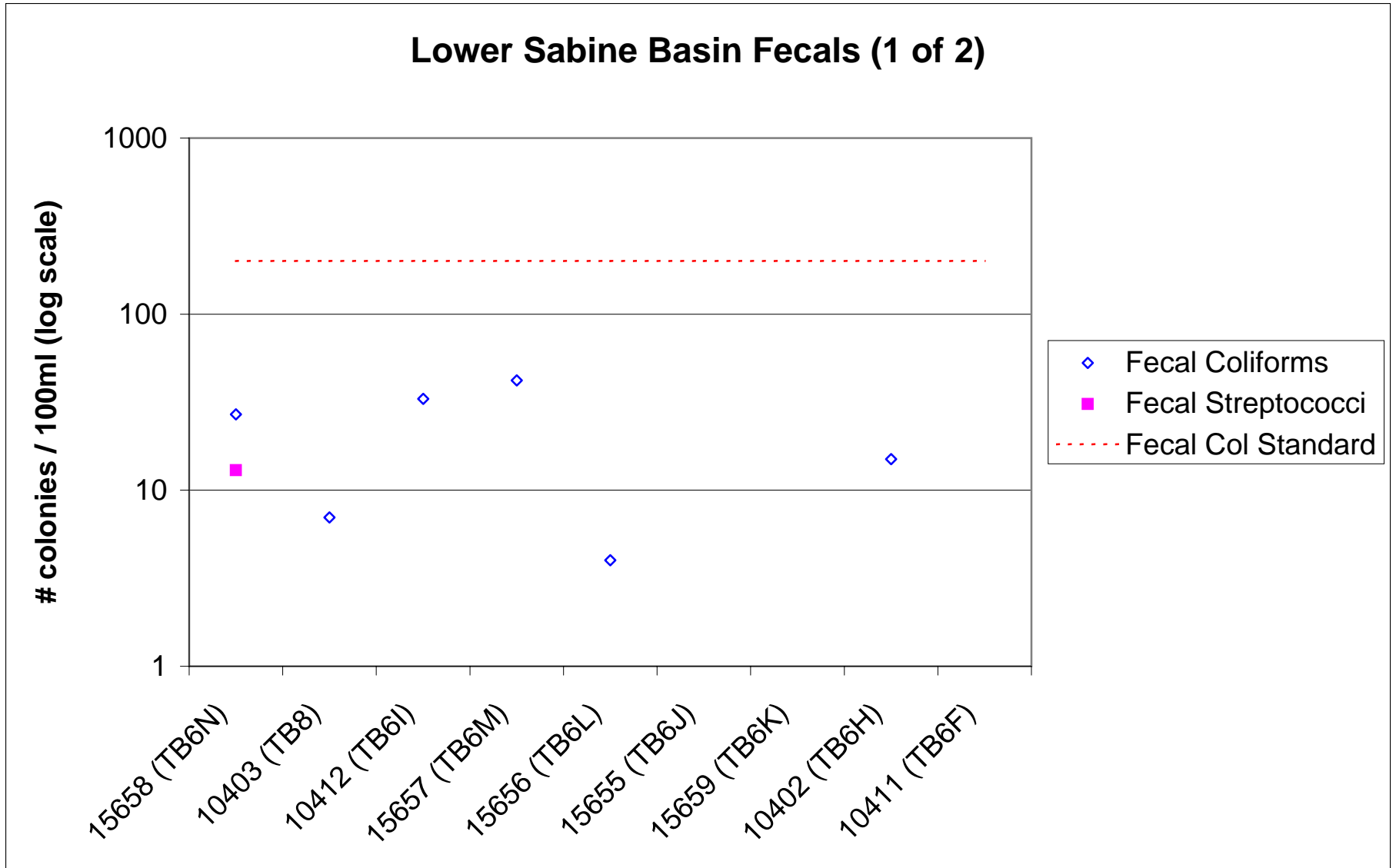
July 2000



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

SABINE RIVER AUTHORITY OF TEXAS

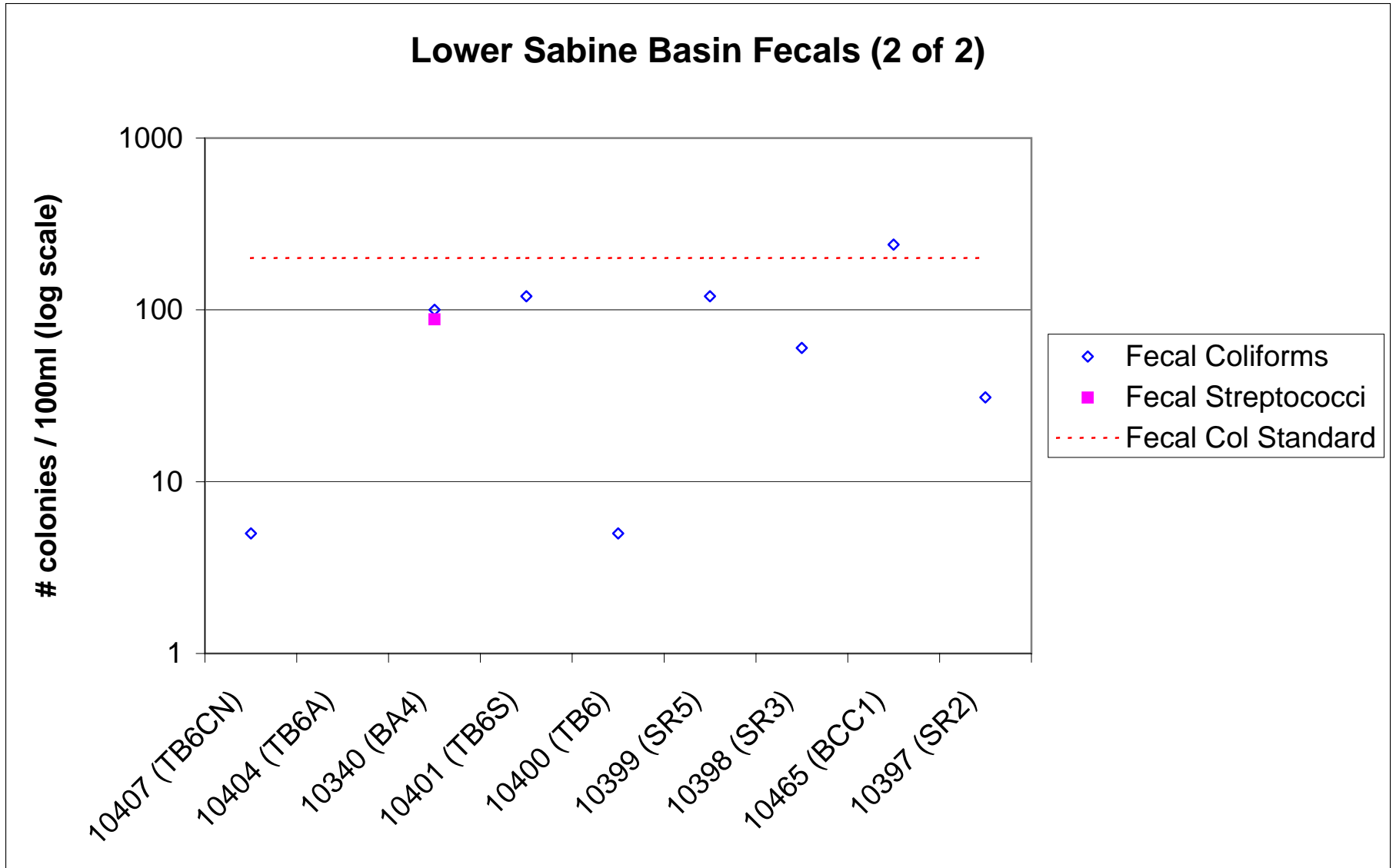
July 2000



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

SABINE RIVER AUTHORITY OF TEXAS

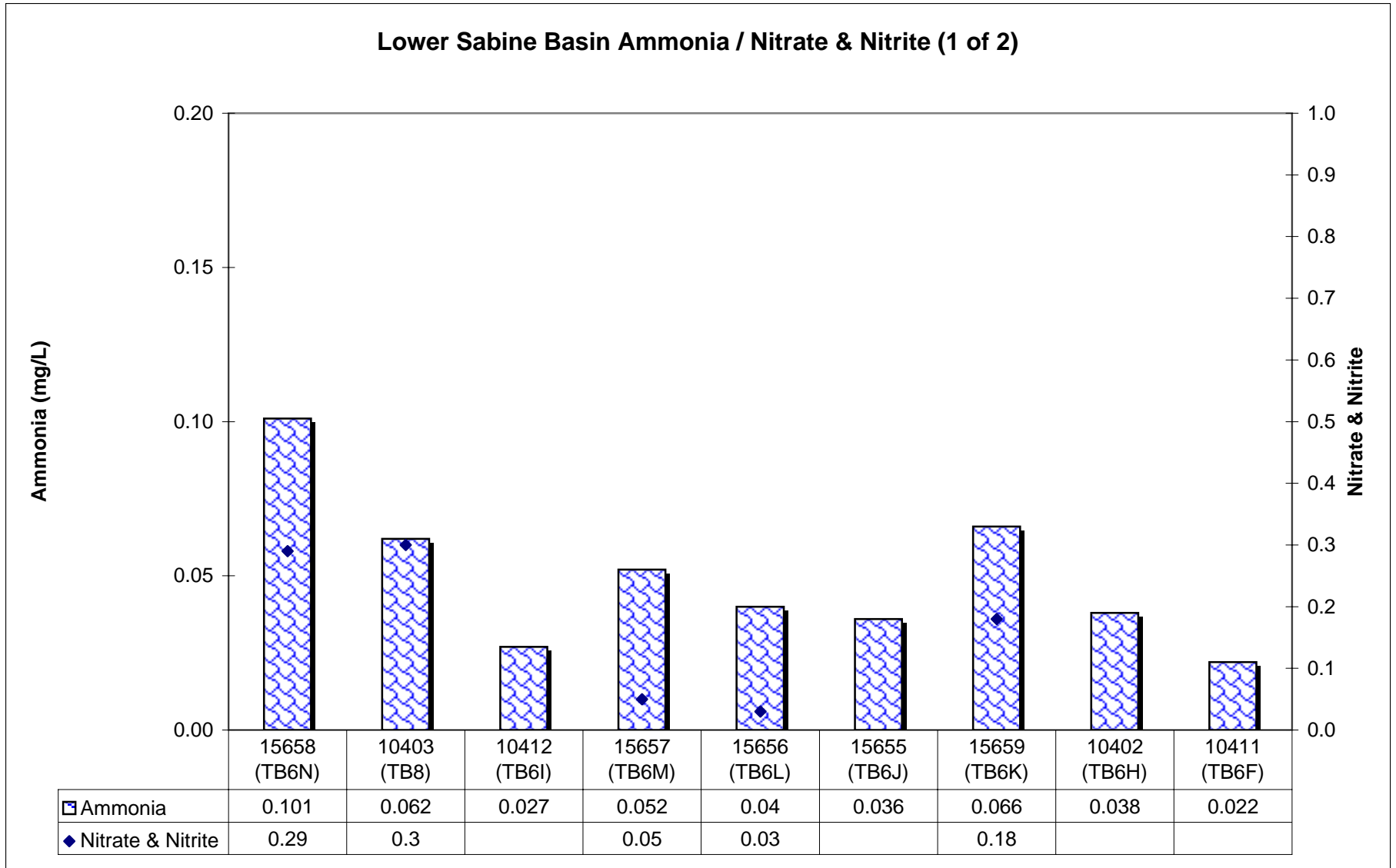
July 2000



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

SABINE RIVER AUTHORITY OF TEXAS

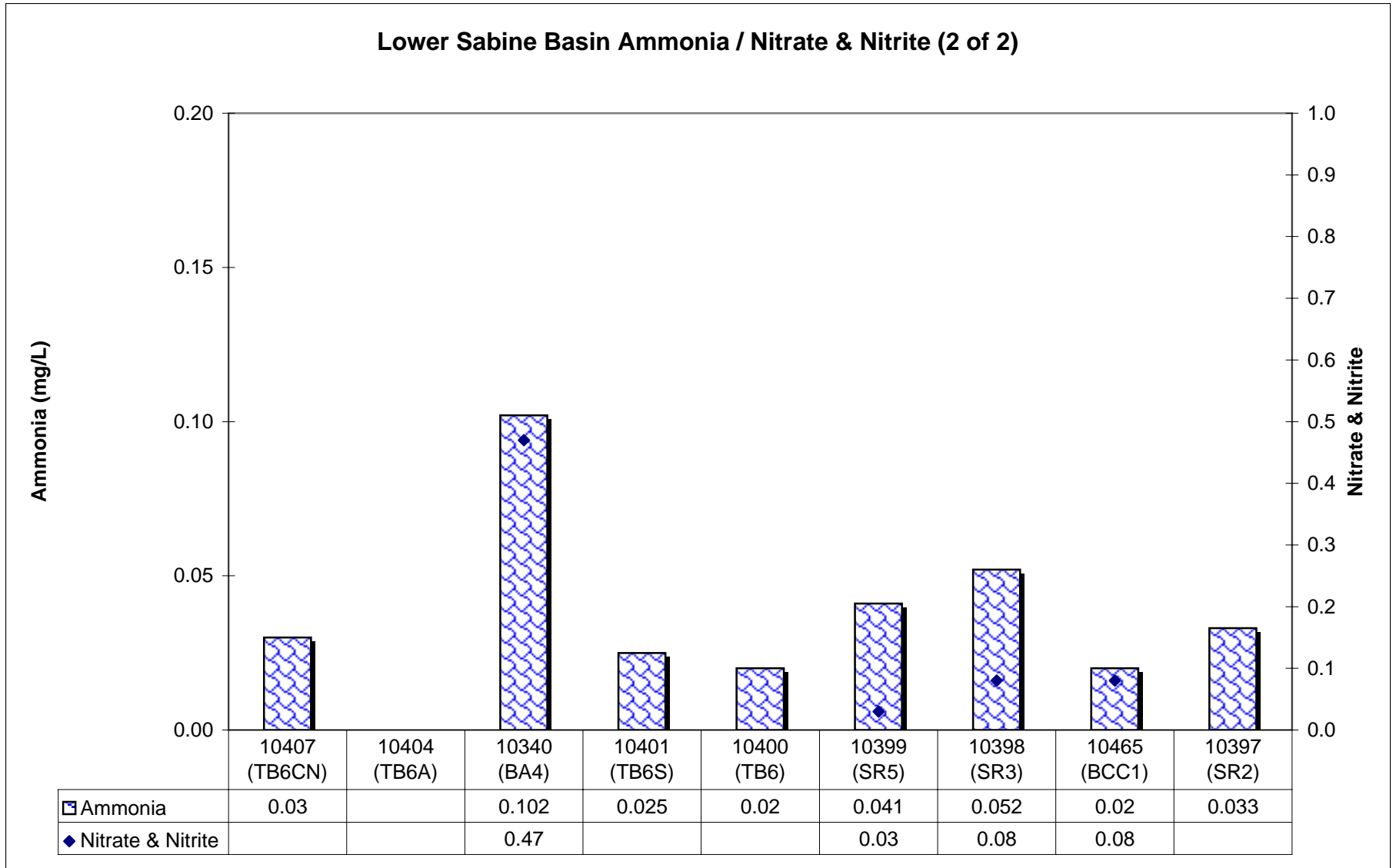
July 2000



Stations without values were below detection limit on this run (see page 18).

SABINE RIVER AUTHORITY OF TEXAS

July 2000



Stations without values were below detection limit on this run (see page 18).

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

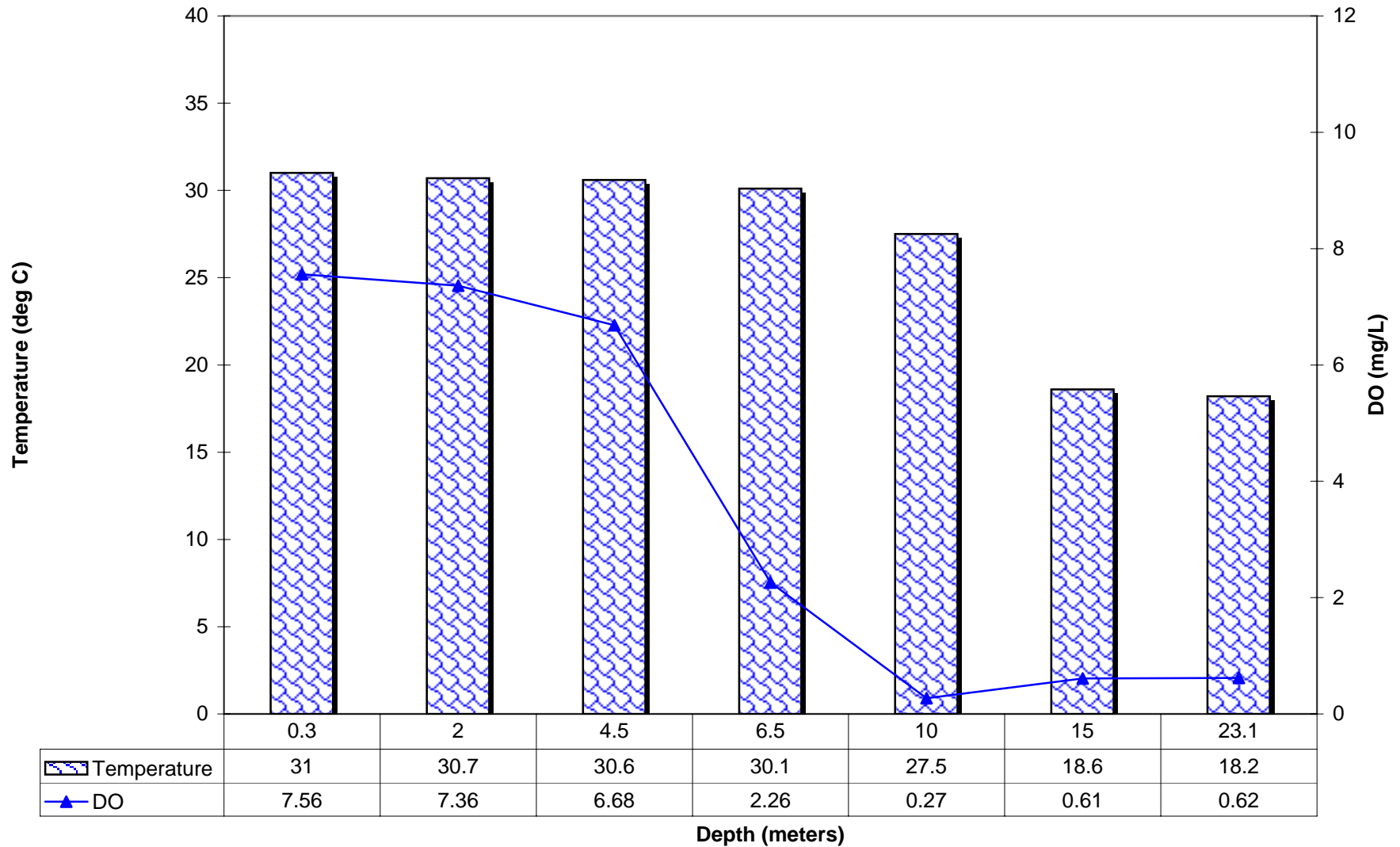
July 2000

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094
7/19/00 12:50 PM	4.00	10403 (TB8)	0.3	33.6	6.56	5.63	79.1	249
			1	32.3	6.5	5.42	75.9	248
			3	31	6.46	2.94	39.6	246
			5	30.9	6.44	2.77	37.3	245
			6	30.9	6.44	2.54	34.3	244
			7	30.6	6.38	1.49	19.9	237
			8	30.1	6.29	0.58	7.7	233
			10.8	29.7	6.31	0.59	7.7	237
7/19/00 1:41 PM	4.00	10412 (TB6I)	0.3	31.6	6.26	2.17	29.7	222
			1	30.4	6.24	0.98	13.3	220
			3	27.1	6.2	0.55	7	259
			4.07	27.1	6.35	0.64	7.9	260
7/18/00 2:30 PM	4.00	15657 (TB6M)	0.3	31.5	6.73	3	44.1	157
			4.7	26	6.62	0.71	8.6	189
7/18/00 2:10 PM	4.00	15656 (TB6L)	0.3	33.1	7.06	7.06	100	169
			3	27.8	6.93	0.7	8.1	181
7/18/00 10:33 AM	4.00	15655 (TB6J)	0.3	32.5	8.58	7.82	107	188
			3	32.1	7.38	6.13	83.4	186
			5.1	30.1	7.19	0.47	6.3	194
7/18/00 1:20 PM	4.00	15659 (TB6K)	0.3	33.2	8.75	8.31	116	142
			2	33.1	8.34	7.94	111	182
			5	31.9	7.17	3.89	54.1	174
			6	31.1	7.09	0.6	7.7	174
			9.6	28.7	7.08	0.92	11.4	212
7/18/00 12:00 PM	4.00	10402 (TB6H)	0.3	31	8.46	7.56	102	186
			2	30.7	8.11	7.36	97.1	186
			4.5	30.6	7.52	6.68	89.3	187
			6.5	30.1	7.14	2.26	29.9	187
			10	27.5	7.03	0.27	3.1	200
			15	18.6	6.93	0.61	6.3	173
7/18/00 11:10 AM	4.00	10411 (TB6F)	0.3	32.2	8.47	8.31	114	152
			2	32.1	7.92	8.19	112	153
			4	30	7.21	3.33	45	164
			5.7	28.1	7.09	0.64	8.1	179
7/18/00 9:30 AM	4.00	10407 (TB6CN)	0.3	31.7	7.24	7.27	98.8	131
			2.5	31.5	7.1	6.13	83.6	130
			3	30.2	6.45	1.55	20.5	126
			6.3	27.5	6.38	0.66	7.8	119
7/19/00 10:09 AM	4.00	10404 (TB6A)	0.3	31.6	8.15	7.55	103	145
			2	31.5	7.84	7.44	102	144
			4	30.4	7.24	6.96	93.1	143
			7	27.6	6.87	2.35	29.7	145
			10	23.8	6.79	0.32	4.4	144
			15	18.4	6.8	0.46	4.2	143
			20	17.1	6.82	0.53	5.1	151
28.6	15.5	6.96	0.68	7	160			

SABINE RIVER AUTHORITY OF TEXAS

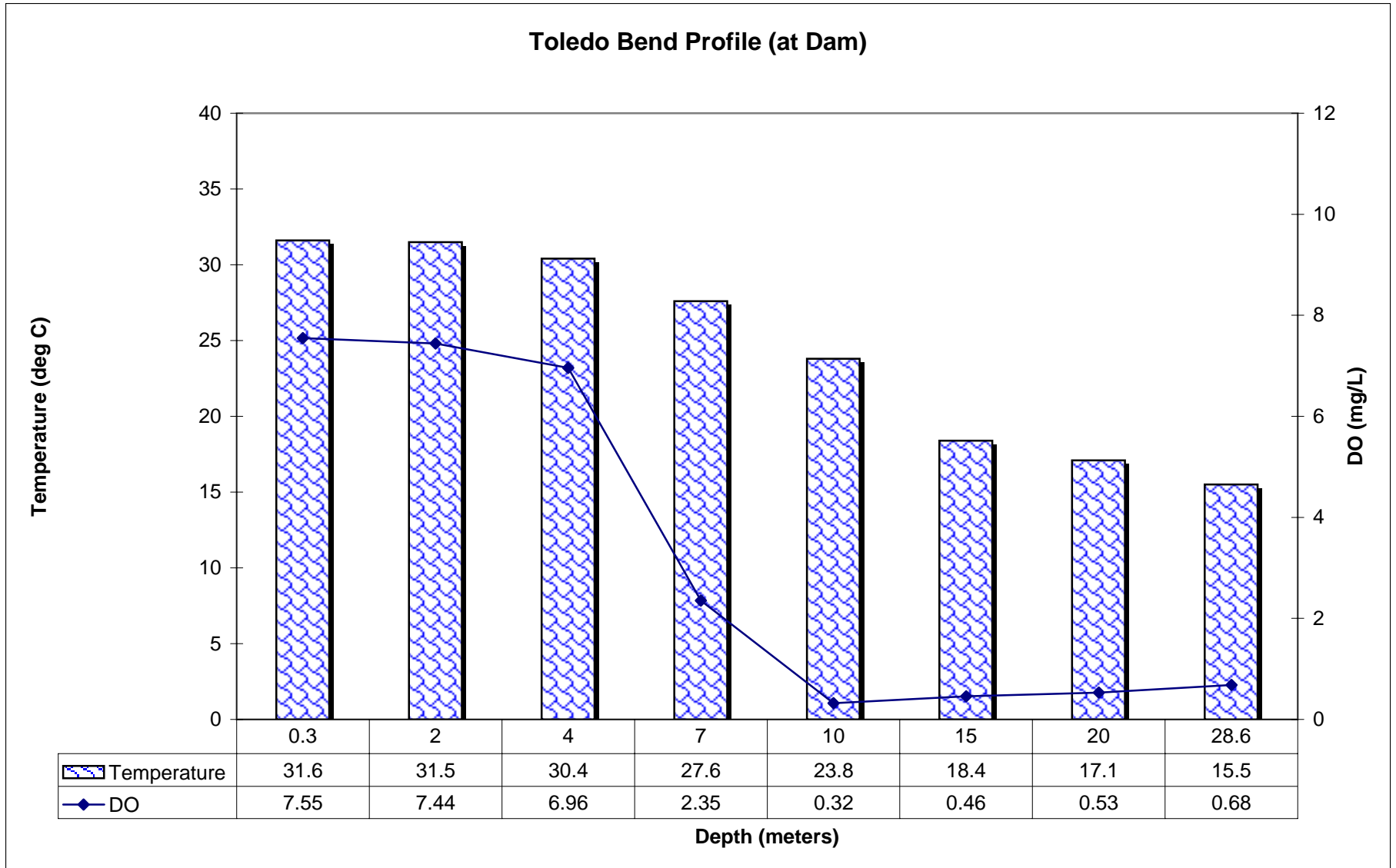
July 2000

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

July 2000



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

July 2000

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
07/01/2000	171.58	(0.42)	88	71	0.67	0.28	160	317	460
07/02/2000	171.64	(0.36)	92	71	0.00	0.26	160	317	460
07/03/2000	171.74	(0.26)	89	72	1.35	NR	5559	11026	460
07/04/2000	171.75	(0.25)	90	73	0.00	0.20	160	317	460
07/05/2000	171.87	(0.13)	92	68	0.00	0.35	6134	12167	460
07/06/2000	171.91	(0.09)	100	69	0.00	0.36	5459	10828	460
07/07/2000	171.97	(0.03)	94	70	0.00	0.33	5448	10806	460
07/08/2000	172.03	0.03	94	72	0.00	0.34	160	317	460
07/09/2000	172.09	0.09	95	73	0.11	0.31	160	317	460
07/10/2000	172.16	0.16	95	73	0.00	0.27	5461	10832	460
07/11/2000	172.15	0.15	93	71	0.00	0.33	7231	14342	460
07/12/2000	172.12	0.12	96	71	0.00	0.31	14151	28068	14530
07/13/2000	171.96	(0.04)	95	71	0.00	0.32	13912	27594	14370
07/14/2000	171.86	(0.14)	100	74	0.00	0.37	13962	27693	14230
07/15/2000	171.77	(0.23)	100	72	0.00	0.30	188	373	14460
07/16/2000	171.74	(0.26)	101	72	0.00	0.34	160	317	460
07/17/2000	171.72	(0.28)	102	71	0.00	0.40	5530	10969	460
07/18/2000	171.67	(0.33)	101	75	0.00	0.36	5353	10618	460
07/19/2000	171.57	(0.43)	98	64	0.00	0.30	5501	10911	460
07/20/2000	171.49	(0.51)	99	73	0.00	NR	5637	11181	430
07/21/2000	171.42	(0.58)	101	74	0.00	NR	6232	12361	430
07/22/2000	171.34	(0.66)	101	73	0.00	0.35	160	317	460
07/23/2000	171.32	(0.68)	97	74	0.00	0.33	160	317	460
07/24/2000	171.32	(0.68)	92	68	0.00	0.44	5734	11373	460
07/25/2000	171.22	(0.78)	90	63	0.00	0.38	5525	10959	460
07/26/2000	171.13	(0.87)	93	63	0.00	0.36	5545	10998	460
07/27/2000	171.00	(1.00)	98	64	0.00	0.38	5495	10899	460
07/28/2000	170.90	(1.10)	98	66	0.00	0.42	5576	11060	430
07/29/2000	170.78	(1.22)	97	67	0.00	0.32	160	317	460
07/30/2000	170.74	(1.26)	98	69	0.18	0.42	160	317	460
07/31/2000	170.81	(1.19)	94	71	0.31	0.22	5527	10963	460
Avg or Tot	171.57	(0.43)	96	70	2.62	9.35	4541	279191	

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.

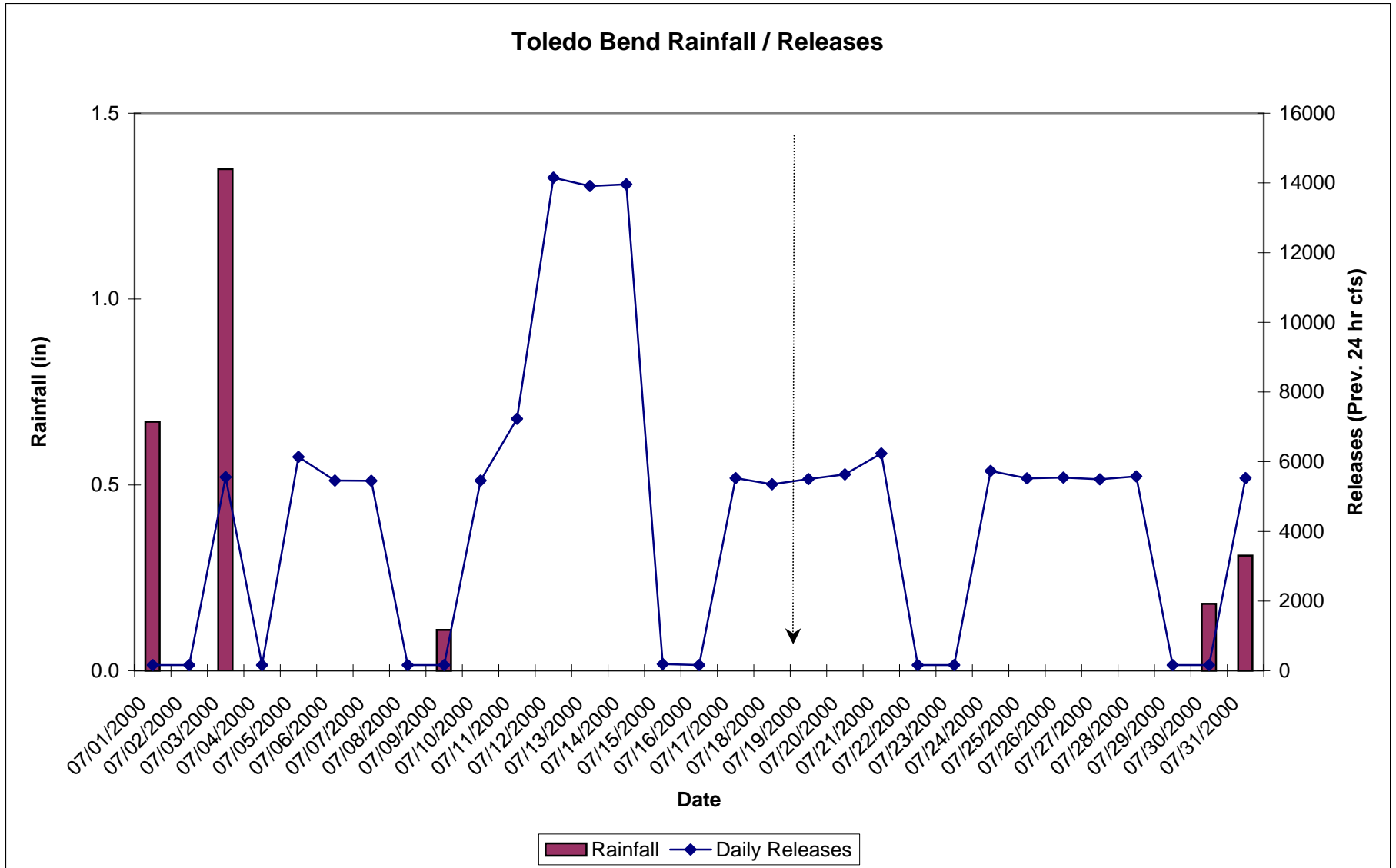
NR: No Reading

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

Toledo Bend Sampled on 7/18/2000 and 7/19/2000

SABINE RIVER AUTHORITY OF TEXAS

July 2000



SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

July 2000

Date	<i>Rainfall</i>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow</i>
07/01/2000	*	18.76	(22.24)	4014
07/02/2000	*	13.19	(27.81)	373
07/03/2000	*	12.89	(28.11)	281
07/04/2000	*	18.87	(22.13)	4122
07/05/2000	*	13.40	(27.60)	444
07/06/2000	*	19.61	(21.39)	4844
07/07/2000	*	18.85	(22.15)	4099
07/08/2000	*	18.61	(22.39)	3889
07/09/2000	*	13.24	(27.76)	389
07/10/2000	*	13.00	(28.00)	313
07/11/2000	*	18.76	(22.24)	4014
07/12/2000	*	24.52	(16.48)	10818
07/13/2000	*	25.33	(15.67)	11995
07/14/2000	*	25.37	(15.63)	12055
07/15/2000	*	21.58	(19.42)	6989
07/16/2000	*	13.19	(27.81)	373
07/17/2000	*	12.59	(28.41)	201
07/18/2000	*	18.65	(22.35)	3925
07/19/2000	*	18.66	(22.34)	3934
07/20/2000	*	18.32	(22.68)	3630
07/21/2000	*	18.41	(22.59)	3710
07/22/2000	*	18.73	(22.27)	3992
07/23/2000	*	12.85	(28.15)	270
07/24/2000	*	12.58	(28.42)	199
07/25/2000	*	18.35	(22.65)	3656
07/26/2000	*	18.79	(22.21)	4036
07/27/2000	*	18.28	(22.72)	3594
07/28/2000	*	18.70	(22.30)	3971
07/29/2000	*	18.80	(22.20)	4043
07/30/2000	*	12.88	(28.12)	278
07/31/2000	*	12.62	(28.38)	209
Avg or Tot		17.37	(23.63)	3505

Units	Tot Inches	Avg Feet	Avg Feet	Avg cfs
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FS: Flood Stage = 41 feet

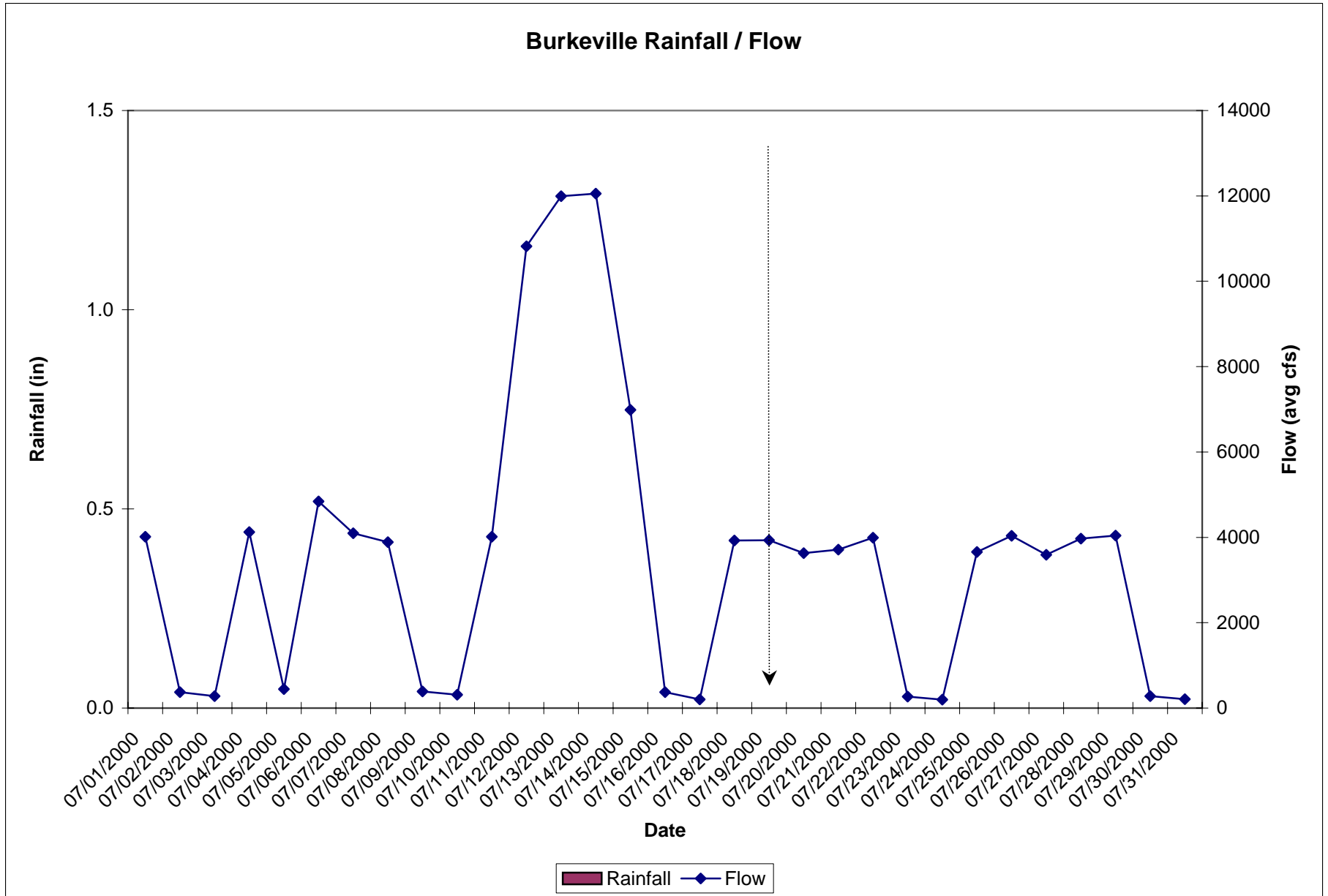
TH: Gage height too high to calculate flow

Lower Sabine Basin Sampled on 7/19/2000

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

SABINE RIVER AUTHORITY OF TEXAS

July 2000



Lower Sabine Basin Sampled on 7/19/2000.

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

July 2000

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
07/01/2000	16.72	(13.28)	3219	0.84
07/02/2000	16.91	(13.09)	3388	0.02
07/03/2000	13.93	(16.07)	1212	0.41
07/04/2000	13.64	(16.36)	1053	0.00
07/05/2000	17.04	(12.96)	3505	0.00
07/06/2000	14.29	(15.71)	1421	0.00
07/07/2000	18.23	(11.77)	4659	0.00
07/08/2000	18.00	(12.00)	4424	0.00
07/09/2000	17.02	(12.98)	3487	0.00
07/10/2000	13.80	(16.20)	1139	0.00
07/11/2000	13.18	(16.82)	823	0.00
07/12/2000	17.67	(12.33)	4097	0.00
07/13/2000	23.61	(6.39)	11655	0.00
07/14/2000	24.29	(5.71)	12734	0.00
07/15/2000	24.50	(5.50)	13080	0.00
07/16/2000	19.28	(10.72)	5798	0.00
07/17/2000	14.28	(15.72)	1415	0.00
07/18/2000	13.24	(16.76)	852	0.00
07/19/2000	17.62	(12.38)	4048	0.00
07/20/2000	17.77	(12.23)	4195	0.00
07/21/2000	17.93	(12.07)	4354	0.00
07/22/2000	18.28	(11.72)	4710	0.00
07/23/2000	17.18	(12.82)	3636	0.00
07/24/2000	13.82	(16.18)	1150	0.04
07/25/2000	13.10	(16.90)	786	0.00
07/26/2000	17.87	(12.13)	4294	0.00
07/27/2000	18.00	(12.00)	4424	0.00
07/28/2000	17.99	(12.01)	4414	0.00
07/29/2000	17.93	(12.07)	4354	0.00
07/30/2000	17.01	(12.99)	3478	0.00
07/31/2000	13.76	(16.24)	1117	0.30
Avg or Tot	17.03	(12.97)	3965	1.61

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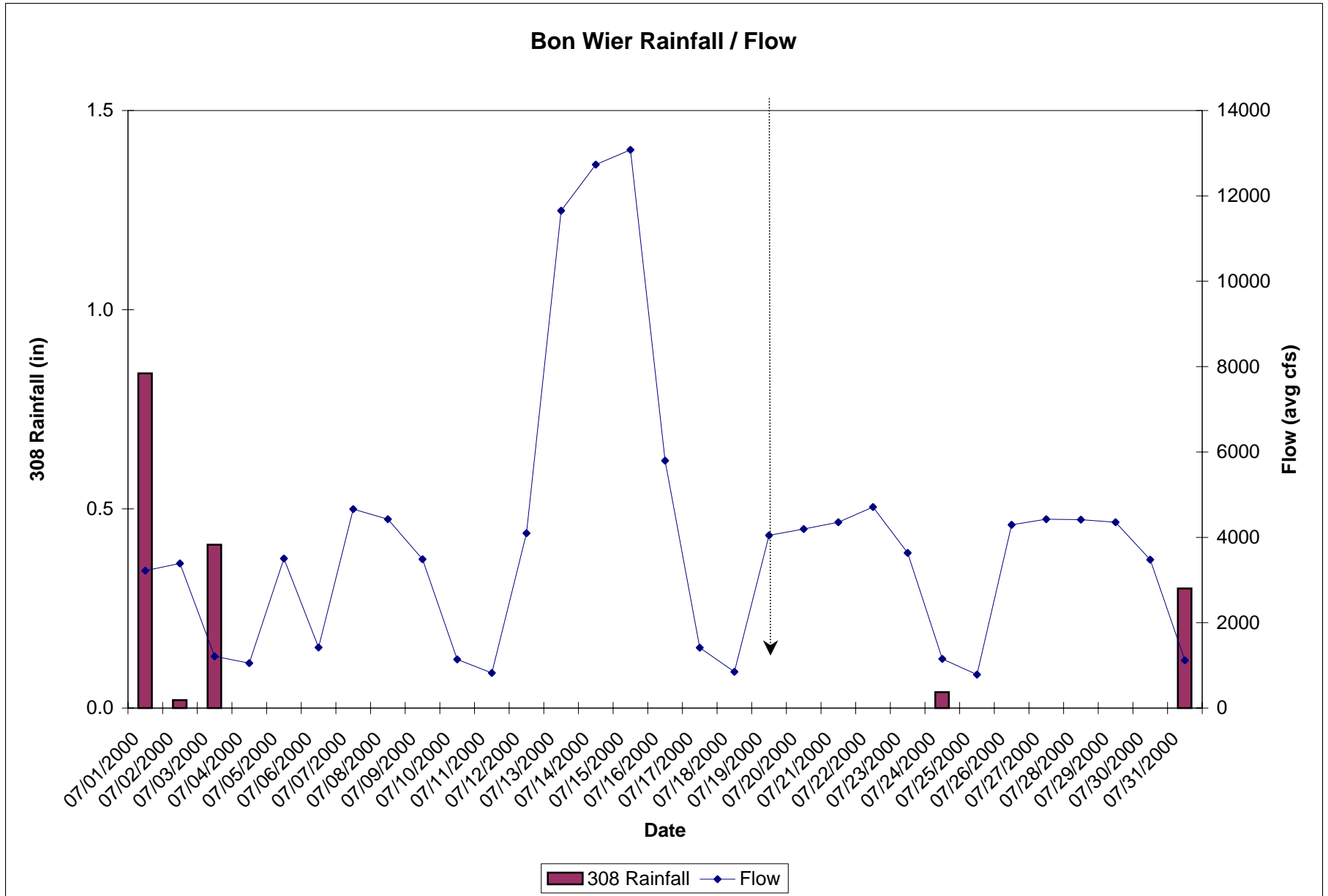
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 7/19/2000

Sabine River Authority of Texas

July 2000



SABINE RIVER AUTHORITY OF TEXAS

Ruliff Weather and River Data

July 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>
07/01/2000	18.16	(5.84)	3024	5998	3024	0.09
07/02/2000	19.06	(4.94)	3656	7252	3340	0.73
07/03/2000	20.08	(3.92)	4708	9338	3796	0.02
07/04/2000	19.35	(4.65)	3934	7803	3831	0.03
07/05/2000	17.30	(6.70)	2494	4947	3563	0.00
07/06/2000	19.27	(4.73)	3856	7648	3612	0.00
07/07/2000	18.63	(5.37)	3341	6627	3573	0.01
07/08/2000	19.77	(4.23)	4358	8644	3671	0.00
07/09/2000	20.63	(3.37)	5462	10834	3870	0.00
07/10/2000	20.83	(3.17)	5718	11341	4055	0.04
07/11/2000	19.15	(4.85)	3741	7420	4027	0.20
07/12/2000	16.33	(7.67)	1973	3913	3855	0.00
07/13/2000	19.03	(4.97)	3628	7196	3838	0.00
07/14/2000	20.95	(3.05)	5874	11651	3983	0.00
07/15/2000	21.90	(2.10)	7414	14705	4212	0.01
07/16/2000	22.45	(1.55)	8719	17294	4494	0.01
07/17/2000	22.80	(1.20)	9842	19521	4808	0.00
07/18/2000	22.67	(1.33)	9403	18651	5064	0.00
07/19/2000	20.86	(3.14)	5757	11419	5100	0.00
07/20/2000	20.13	(3.87)	4776	9473	5084	0.00
07/21/2000	20.62	(3.38)	5450	10810	5101	0.00
07/22/2000	20.94	(3.06)	5861	11625	5136	0.00
07/23/2000	21.04	(2.96)	5999	11899	5173	0.00
07/24/2000	21.20	(2.80)	6237	12371	5218	1.19
07/25/2000	19.61	(4.39)	4193	8317	5177	0.00
07/26/2000	16.57	(7.43)	2094	4153	5058	0.01
07/27/2000	19.30	(4.70)	3885	7706	5015	0.01
07/28/2000	20.54	(3.46)	5350	10612	5027	0.00
07/29/2000	20.92	(3.08)	5835	11574	5055	0.15
07/30/2000	21.02	(2.98)	5969	11839	5085	0.00
07/31/2000	21.03	(2.97)	5984	11869	5114	0.00
Avg or Tot	20.07	(3.93)	5114	314450		2.50

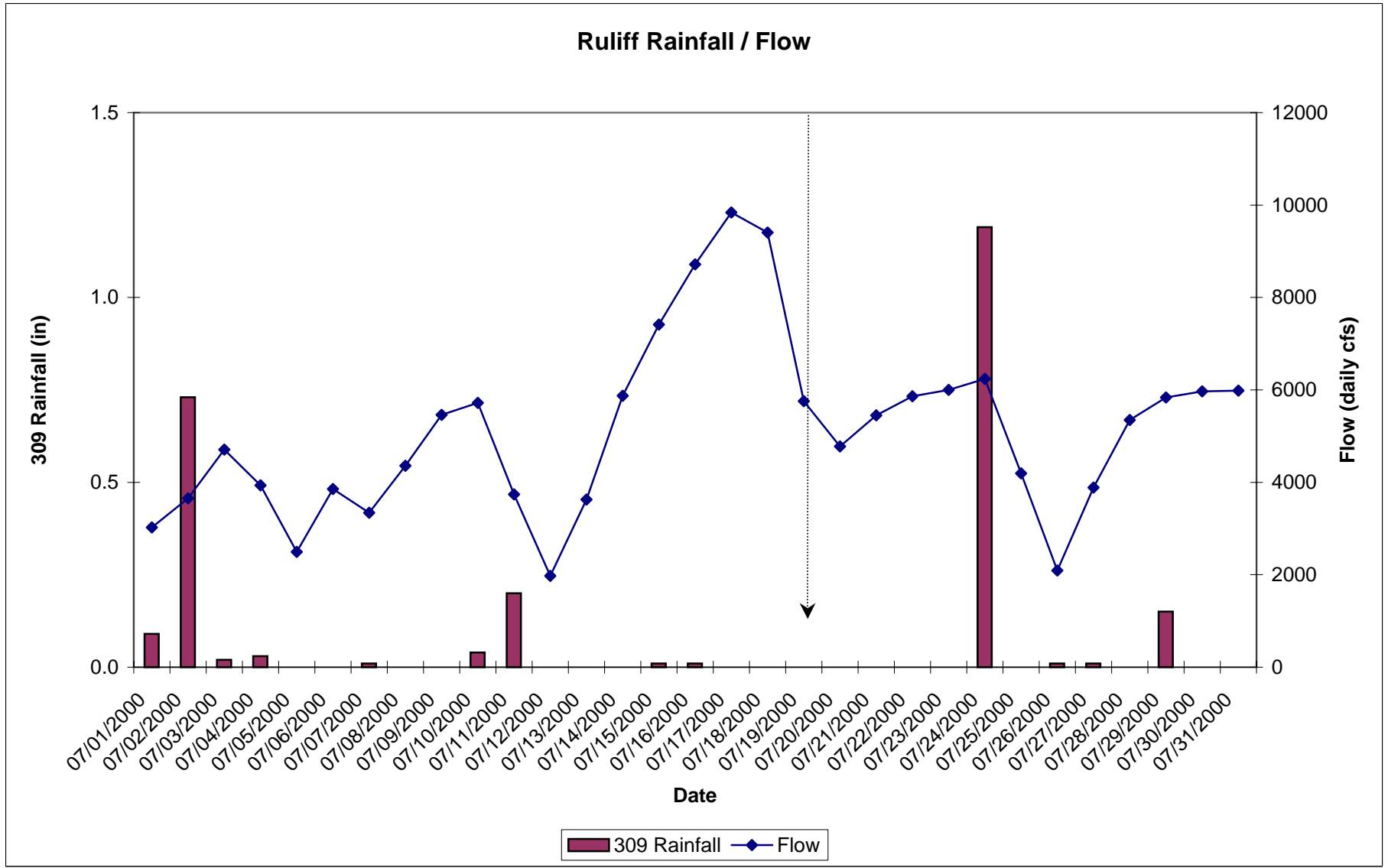
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 7/19/2000

SABINE RIVER AUTHORITY OF TEXAS

July 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

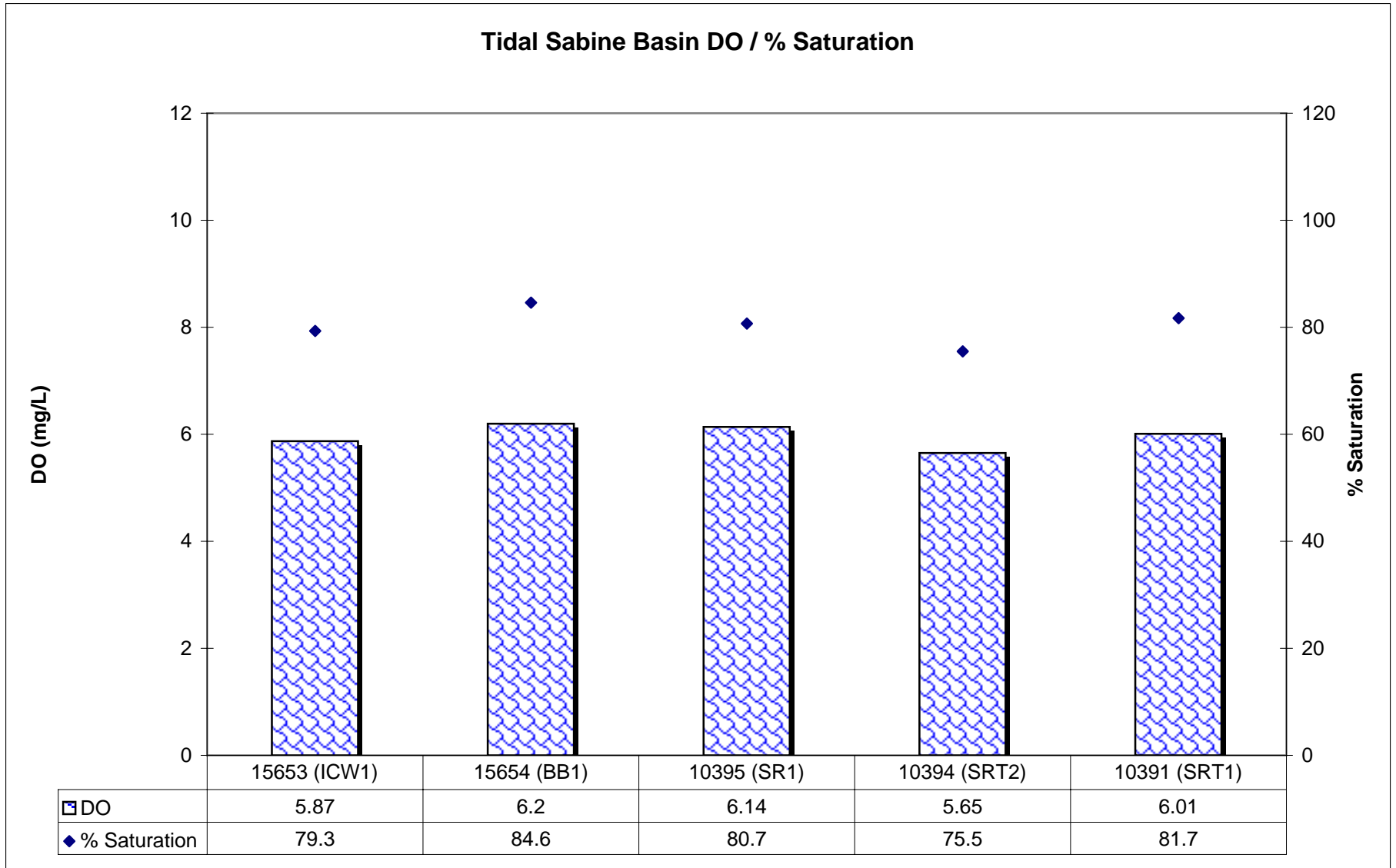
July 2000

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
7/20/00 10:00 AM	1.05	15653 (ICW1)	30.9	7.16	5.87	79.3	1906	1	0.48	15.2	13	*	*	0.163	< 0.02	< 0.02	8	30	*	547	90.3
7/20/00 10:50 AM	1.01	15654 (BB1)	30.6	7.43	6.2	84.6	6036	3	0.56	16.7	2	*	*	< 0.001	< 0.02	< 0.02	10	45	*	547	90.4
7/25/00 8:45 AM	1.00	10395 (SR1)	29.8	7.44	6.14	80.7	167	*	0.5	14.9	13	*	*	0.032	< 0.02	< 0.02	9	30	*	13.9	21.1
7/20/00 9:23 AM	1.00	10394 (SRT2)	30.6	7.02	5.65	75.5	157	< 1	0.72	11.3	24	*	*	0.031	< 0.02	< 0.02	8	27	*	14.1	21.6
7/20/00 11:13 AM	1.00	10391 (SRT1)	30.9	7.34	6.01	81.7	4397	2	0.56	11.9	13	*	*	0.234	0.09	< 0.02	8	36	*	1460	218

*: Not sampled on this run

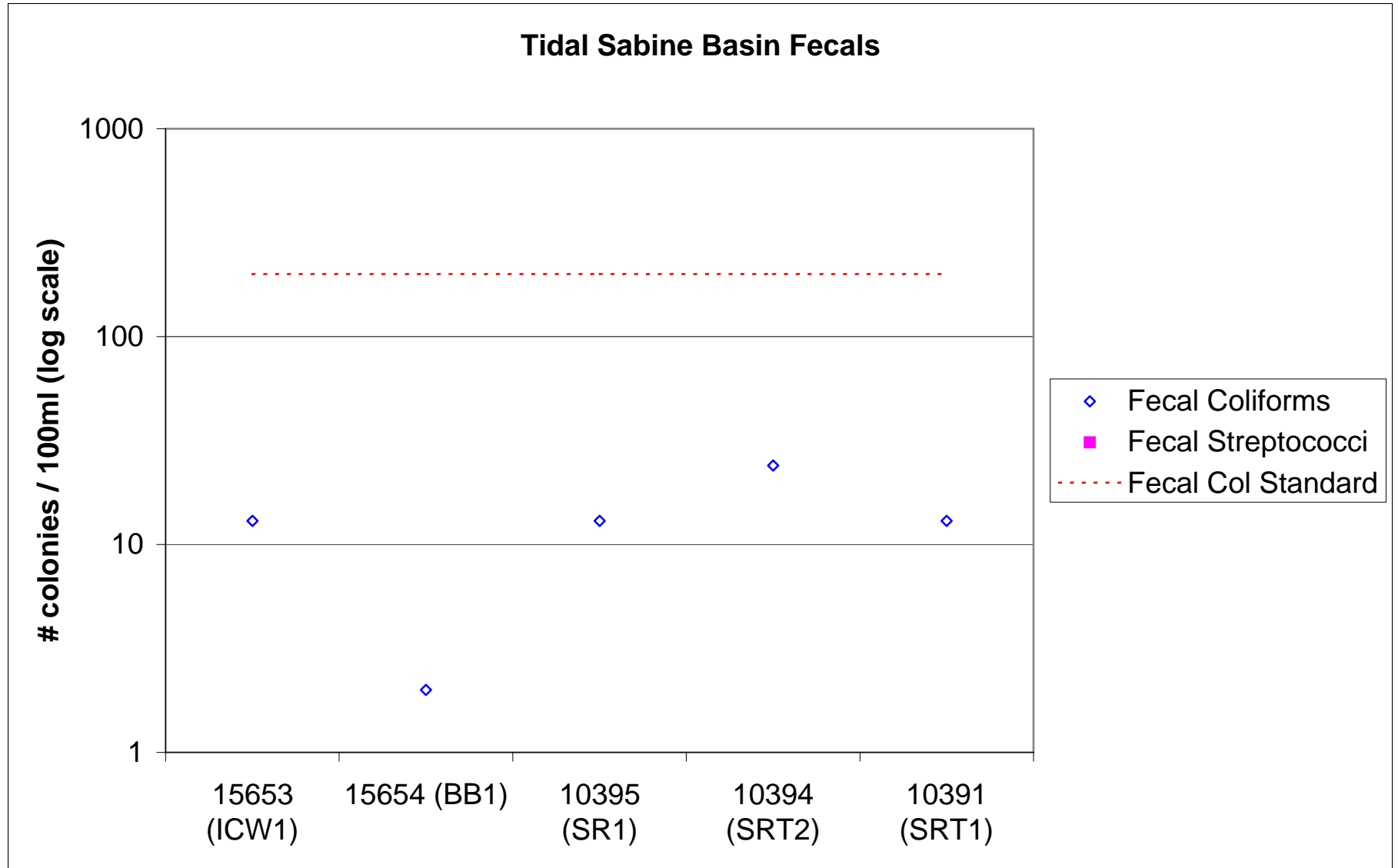
SABINE RIVER AUTHORITY OF TEXAS

July 2000



SABINE RIVER AUTHORITY OF TEXAS

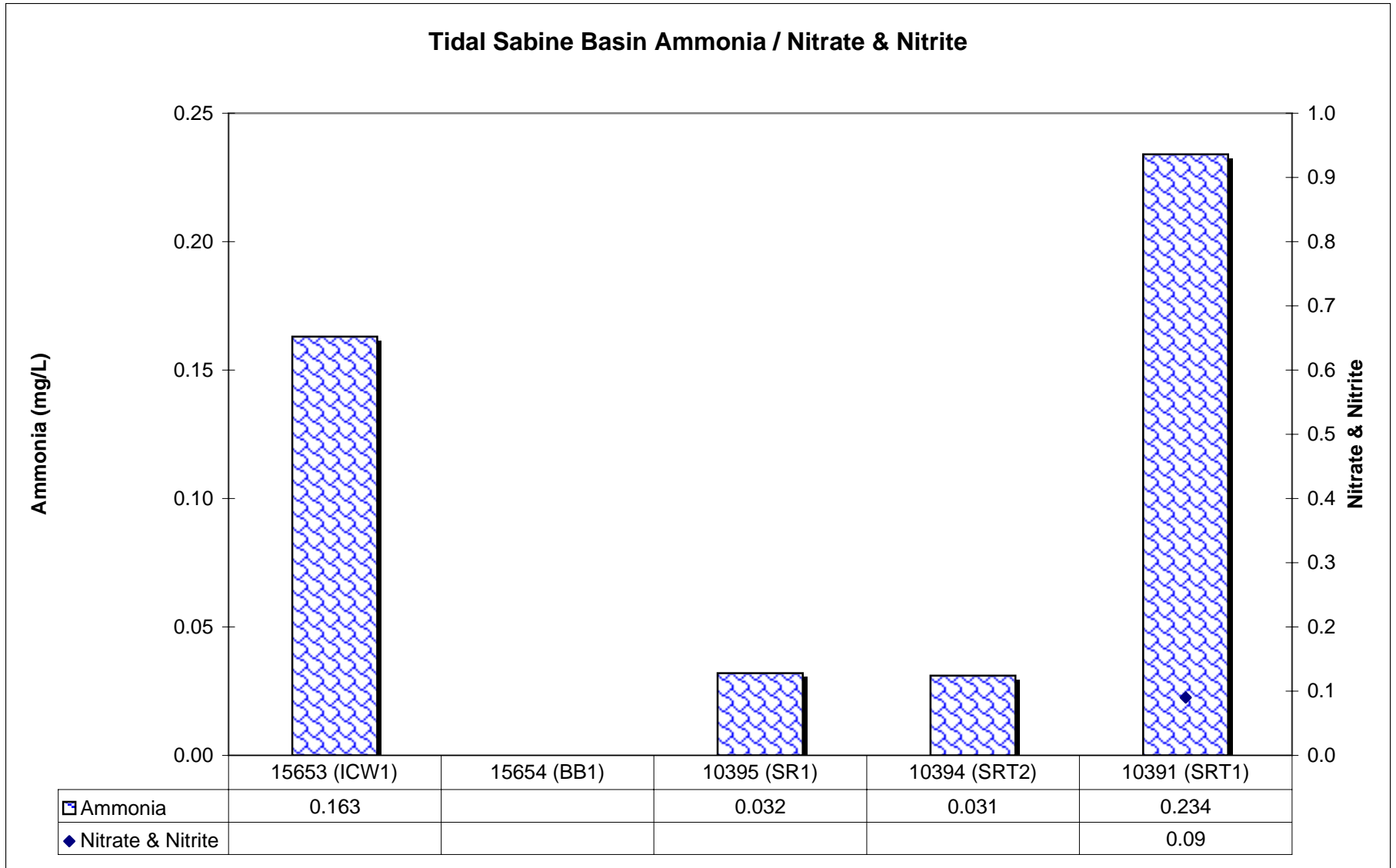
July 2000



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

SABINE RIVER AUTHORITY OF TEXAS

July 2000



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

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

July 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
7/20/00 10:00 AM	1.05	15653 (ICW1)	0.3	30.9	7.16	5.87	79.3	1906	1
			2.5	30.9	7.19	5.83	78.6	1906	1
			6	30.9	7.28	6.02	81.7	1925	1
7/20/00 10:50 AM	1.01	15654 (BB1)	0.3	30.6	7.43	6.2	84.6	6036	3
			2.5	30.2	7.38	5.44	74.2	6131	3
			5.7	30.1	7.46	5.33	72.6	6234	3
7/25/00 8:45 AM	1.00	10395 (SR1)	0.3	29.8	7.44	6.14	80.7	167	*
			5.5	29.8	7.49	6.13	80.6	168	*
7/20/00 9:23 AM	1.00	10394 (SRT2)	0.3	30.6	7.02	5.65	75.5	157	< 1
			2.5	30.5	7.05	5.2	69.6	157	< 1
			5	30.5	7.09	5.45	73	158	< 1
			8.2	30.5	7.16	5.65	75.2	157	< 1
7/20/00 11:13 AM	1.00	10391 (SRT1)	0.3	30.9	7.34	6.01	81.7	4397	2
			4	30.7	7.44	5.73	78.2	5044	3
			6	30.8	7.46	4.62	64.8	11170	6
			9.6	31.5	7.3	3.75	56.2	27030	16

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

July 2000

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
07/01/2000	0.00	1.26	(2.74)	91	73	73	0.02
07/02/2000	0.05	1.13	(2.87)	90	73	73	0.04
07/03/2000	0.03	1.26	(2.74)	90	73	74	0.00
07/04/2000	0.10	1.18	(2.82)	91	74	75	0.00
07/05/2000	0.00	1.26	(2.74)	91	70	70	0.00
07/06/2000	0.07	1.26	(2.74)	89	69	72	0.00
07/07/2000	0.00	1.17	(2.83)	90	72	73	0.00
07/08/2000	0.00	1.37	(2.63)	94	73	74	0.00
07/09/2000	0.00	1.50	(2.50)	96	74	77	0.00
07/10/2000	0.00	1.86	(2.14)	93	74	74	0.00
07/11/2000	0.01	1.70	(2.30)	91	72	72	0.00
07/12/2000	0.00	1.51	(2.49)	93	72	73	0.00
07/13/2000	0.00	1.29	(2.71)	97	73	75	0.00
07/14/2000	0.00	0.81	(3.19)	98	74	76	0.00
07/15/2000	0.00	0.74	(3.26)	100	77	77	0.00
07/16/2000	0.00	0.76	(3.24)	102	75	75	0.00
07/17/2000	0.00	0.80	(3.20)	99	74	75	0.00
07/18/2000	0.00	0.68	(3.32)	97	75	78	0.00
07/19/2000	0.00	0.70	(3.30)	96	77	78	0.00
07/20/2000	0.00	0.54	(3.46)	97	76	76	0.00
07/21/2000	0.00	0.60	(3.40)	99	75	76	0.00
07/22/2000	0.00	0.84	(3.16)	98	74	74	0.00
07/23/2000	0.00	1.10	(2.90)	98	74	78	0.00
07/24/2000	0.66	1.23	(2.77)	95	69	69	0.10
07/25/2000	0.00	1.46	(2.54)	90	66	66	0.00
07/26/2000	0.00	1.69	(2.31)	92	66	67	0.00
07/27/2000	0.00	1.65	(2.35)	93	66	69	0.00
07/28/2000	0.00	1.42	(2.58)	93	69	70	0.00
07/29/2000	0.00	1.54	(2.46)	91	70	72	0.01
07/30/2000	0.03	1.45	(2.55)	90	71	74	0.09
07/31/2000	0.23	1.05	(2.95)	93	74	74	0.12
Avg or Tot	1.18	1.19	(2.81)	94	72	74	0.38

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 7/20/2000

SABINE RIVER AUTHORITY OF TEXAS

July 2000

