
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Summary for January 2000. Water quality sampling was performed January 11 through January 13. Daytime high air temperatures during the seven days prior to the sampling dates were mostly in the 50's and 60's in the Upper Basin and in the 60's and 70's in the Lower Basin. Nighttime lows in the mid 20's were recorded several nights in the Upper Basin but most were in the 30's and 40's. Low temperatures in the Lower Basin were mostly in the 40's and 50's. About an inch of rainfall was recorded in January prior to the sample run.

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

For the January sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. The most recent rainfall was a 0.6 inch rain three days prior to sampling. Lake Tawakoni recorded 0.69 inches of rain since January 1st (11 days previous) and Lake Fork recorded 0.63 inches during the same period. Water temperature and dissolved oxygen profiles were similar from surface to bottom at Lake Tawakoni and Lake Fork indicating complete mixing, with no significant thermal stratification. Elevated dissolved oxygen at several reservoir sites indicate high algal activity and field notes indicate water color is somewhat greener than usual for winter months. This may be partially due to mild temperatures seen so far this winter. Water quality parameters were within stream standards at all Upper Basin reservoir sites and ammonia was slightly over screening criteria at SR10.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

Samples taken during the January 2000 WQM sampling were indicative of high quality water at most sites. At the time of sampling, Toledo Bend Reservoir was still exhibiting low water level conditions. Water sampled at most sites on the reservoir was very clear and green. Deep-water stations of the reservoir were well mixed, having no thermal stratification. Station TB6N, located below a municipal wastewater treatment plant, had higher conductivity, chloride, phosphate, and

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ammonia results. Station TB6N also had very low dissolved oxygen concentrations compared to other sites and was covered with duckweed at the time of sampling. Station BA4, located below a paper mill, had higher conductivity, chloride, sulfate, and fecal coliform results. Water in the bayou was very black and low at the time of sampling. Samples taken from Station SR3, located downstream of BA4, exhibited the same black color as the water in Anacoco Bayou.

TIDAL SECTION OF THE SABINE BASIN BELOW MORGAN BLUFF

Water samples indicative of high quality were collected from the tidal portion of the Sabine Basin. All surface water values measured were within stream standards criteria. A definite salt-water wedge was detected as far north as the I10 Bridge. Salinity readings ranged from <1.0 ppt at surface to 16 ppt at a depth of 9.8 meters. No tidal action was observed at the time of sampling. Deep-water profiles were well mixed and exhibited 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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PRINTED WEDNESDAY, JULY 19, 2000

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Water Quality Monitoring Program

January 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
 January 2000

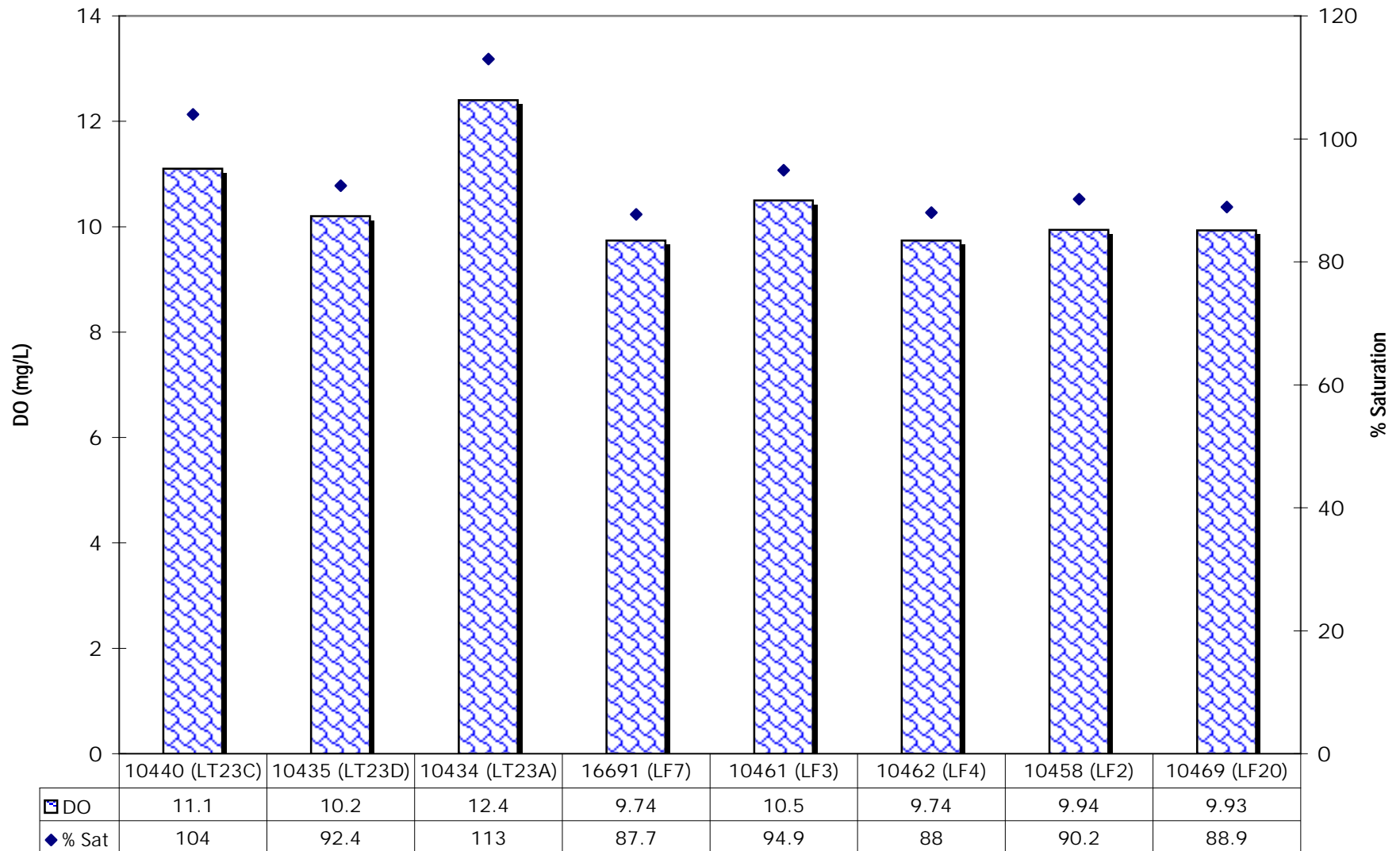
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
1/11/00 12:52 PM	7.00	10440 (LT23C)	11.4	8.18	11.1	104	195	*	0.38	25.6	< 2	*	< 0.001	< 0.02	< 0.02	*	*	*	5.5	12.9	
1/11/00 12:11 PM	7.00	10435 (LT23D)	10.4	8	10.2	92.4	195	*	0.31	18.6	2	*	< 0.001	< 0.02	< 0.02	*	*	*	5.7	12.6	
1/11/00 11:15 AM	7.00	10434 (LT23A)	10.5	8.43	12.4	113	187	*	0.8	6.05	< 2	*	< 0.001	0.12	< 0.02	*	*	*	5.3	10.6	
1/11/00 9:55 AM	6.12	16691 (LF7)	10.1	6.94	9.74	87.7	155	*	1.02	7.4	< 1	*	< 0.001	0.08	< 0.02	*	*	*	14.6	22.3	
1/11/00 9:11 AM	6.12	10461 (LF3)	10.5	7.14	10.5	94.9	155	*	1.24	3.28	< 1	*	< 0.001	< 0.02	< 0.02	*	*	*	14.9	20.1	
1/11/00 9:31 AM	6.12	10462 (LF4)	10.2	7.1	9.74	88	156	*	1.36	2.9	< 1	*	< 0.001	0.16	< 0.02	*	*	*	14.2	20	
1/11/00 8:21 AM	6.12	10458 (LF2)	10.9	7.06	9.94	90.2	167	*	1.59	2.33	< 1	*	< 0.001	0.34	< 0.02	*	*	*	14.4	18.7	
1/11/00 2:29 PM	6.10	10469 (LF20)	10	7.3	9.93	88.9	174	*	0.41	24.7	*	*	< 0.001	0.18	< 0.02	*	*	*	20.7	24.4	
1/12/00 8:37 AM	6.02	10467 (BS18)	9.68	6.29	9.52	84.8	127	*	> 1.4	4.28	7	*	< 0.001	0.07	< 0.02	*	*	*	20.1	17	
1/11/00 2:08 PM	6.00	10430 (SR21)	9.2	7.39	10.1	89.1	642	*	0.44	18.6	132	*	< 0.001	< 0.02	< 0.02	*	*	*	121	81.5	
1/11/00 2:46 PM	6.00	10429 (SR19)	10.1	7.13	10.6	95.8	278	*	0.47	23.3	67	*	< 0.001	0.16	< 0.02	*	*	*	42.1	36	
1/12/00 8:58 AM	5.00	10428 (SR17)	9.82	6.5	9.82	87.7	186	*	0.43	23.8	104	*	< 0.001	0.2	< 0.02	*	*	*	26.9	22.9	
1/12/00 9:14 AM	5.00	10427 (SR16)	10.1	6.61	9.85	88.5	227	*	0.47	20.5	140	*	< 0.001	0.13	< 0.02	*	*	*	38.1	25.9	
1/12/00 9:34 AM	5.00	10426 (SR15)	9.99	6.68	10.2	90.9	242	*	0.52	20.7	88	*	< 0.001	0.11	< 0.02	*	*	*	41.4	26.9	
1/12/00 9:56 AM	5.00	10423 (SR14)	10.8	6.7	9.62	88	253	*	0.5	27.9	100	*	0.157	0.26	< 0.02	*	*	*	43.9	26.9	
1/12/00 10:46 AM	5.00	13628 (SR11)	11.3	6.99	9.59	88.5	377	*	0.51	26	112	*	0.13	0.34	< 0.02	*	*	*	61.3	45.2	
1/12/00 11:16 AM	5.00	10415 (SR10)	11.8	7.16	9.71	90.7	453	*	0.5	24.5	128	*	0.203	0.55	< 0.02	*	*	*	65.6	66	

*: Not sampled on this run

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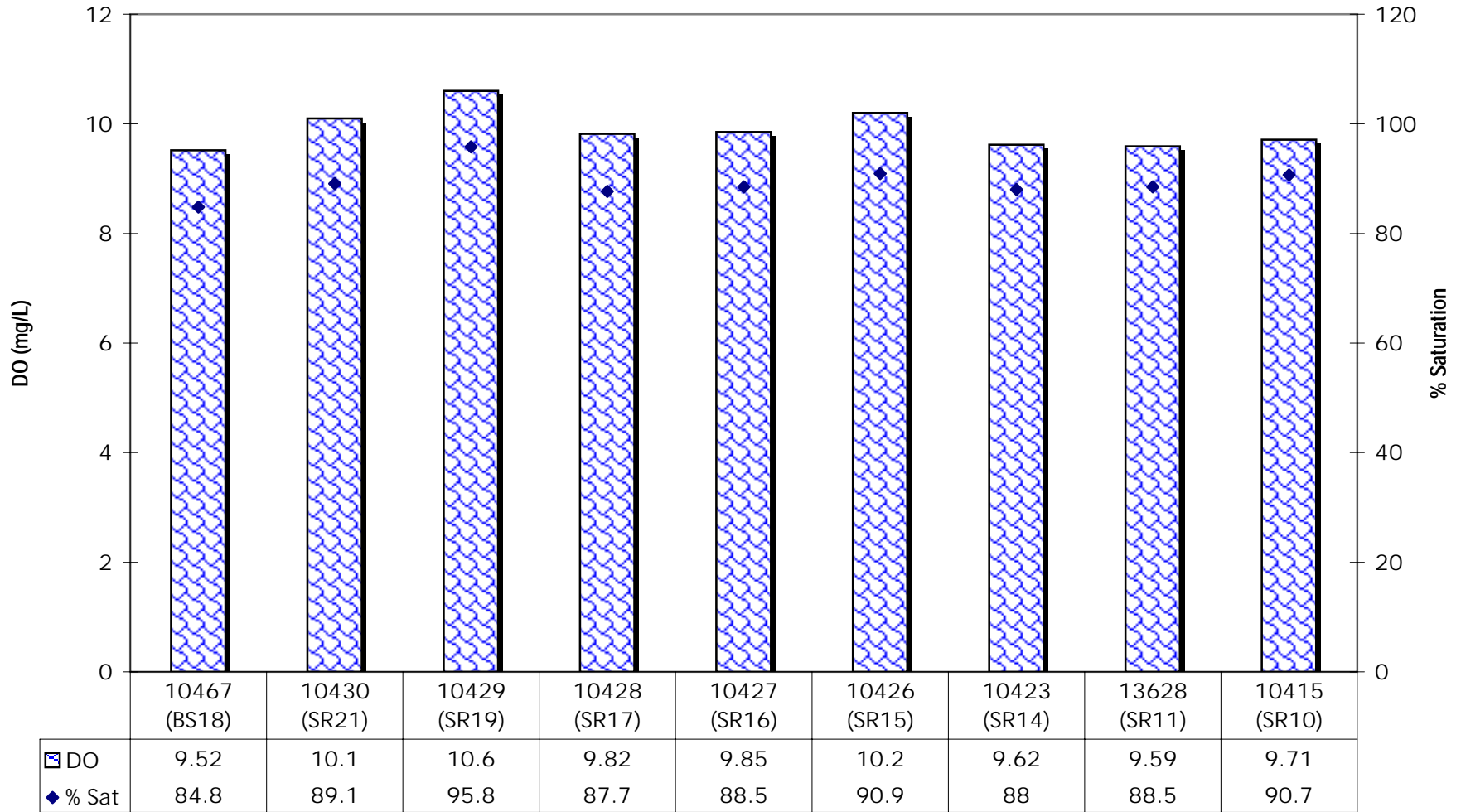
Upper Sabine Basin DO / % Saturation (1 of 2)



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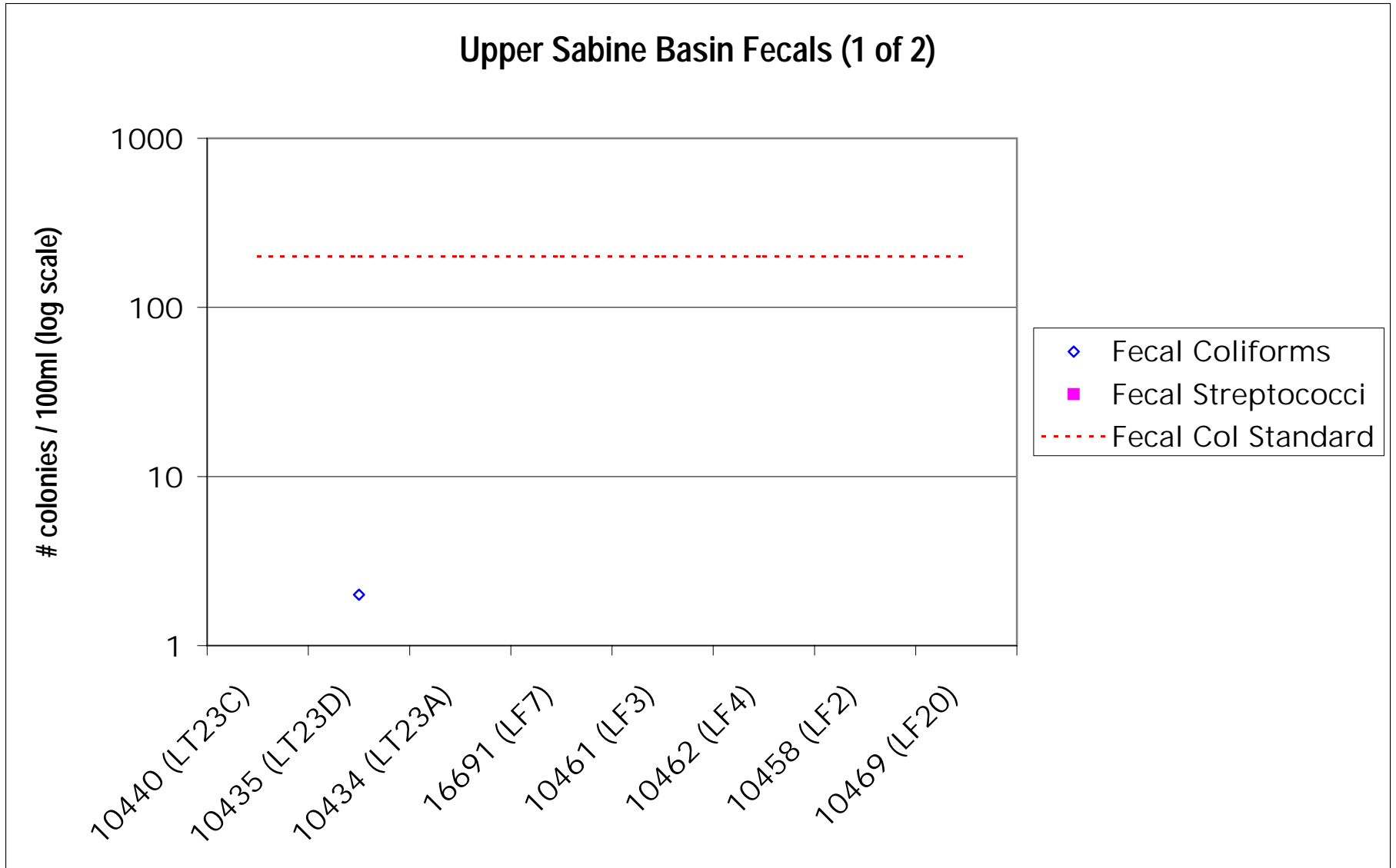
January 2000

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



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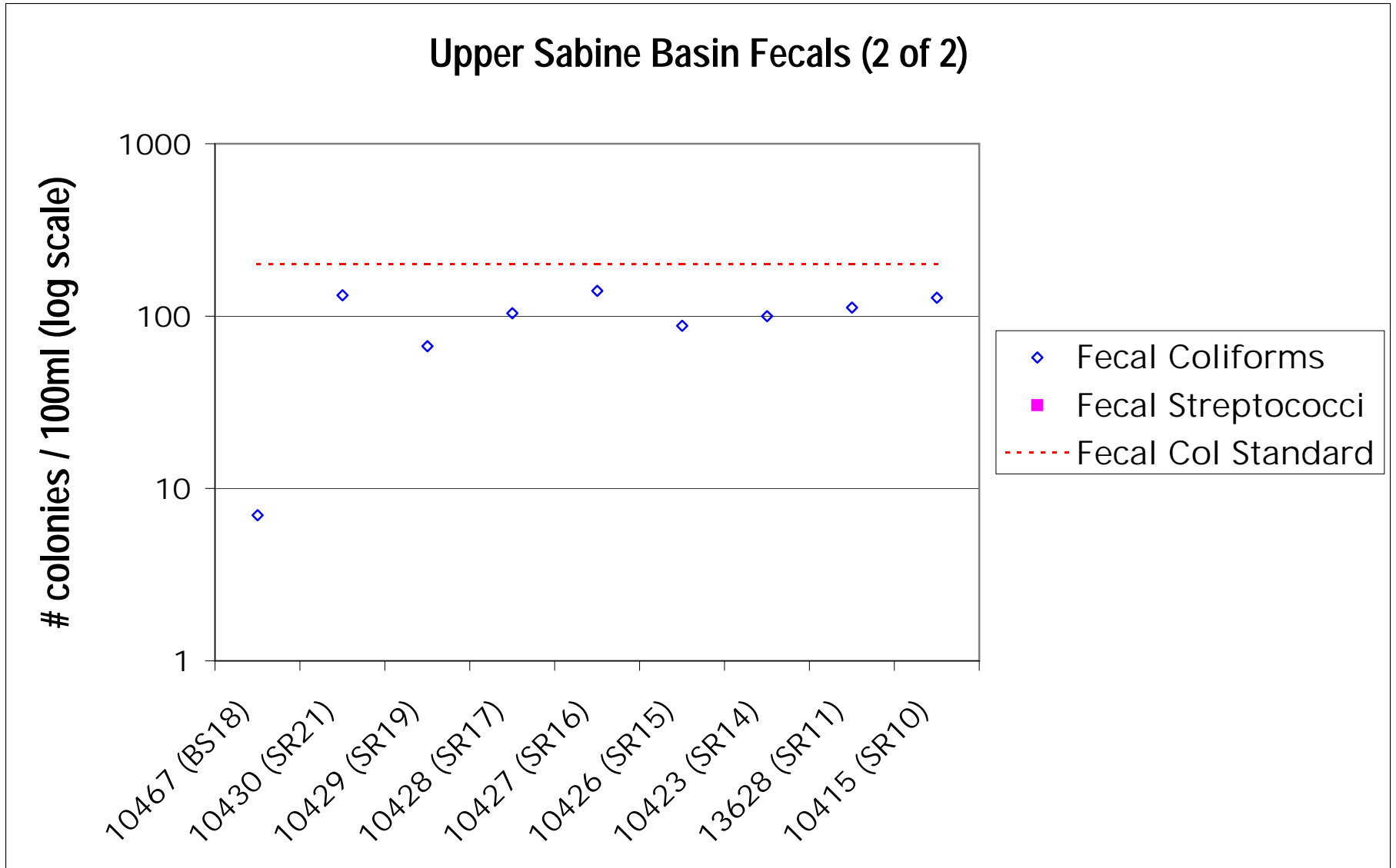
January 2000



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

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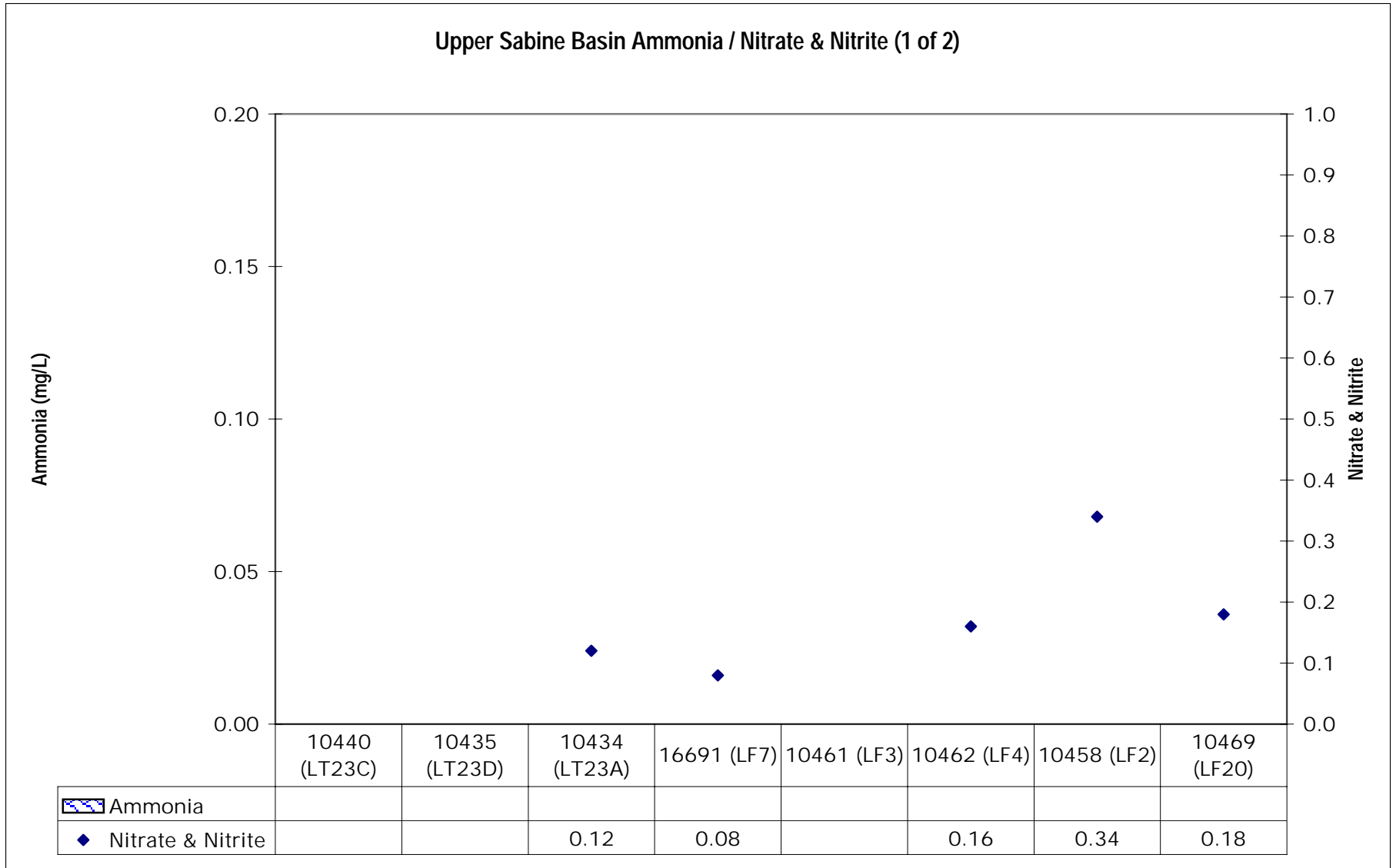
January 2000



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

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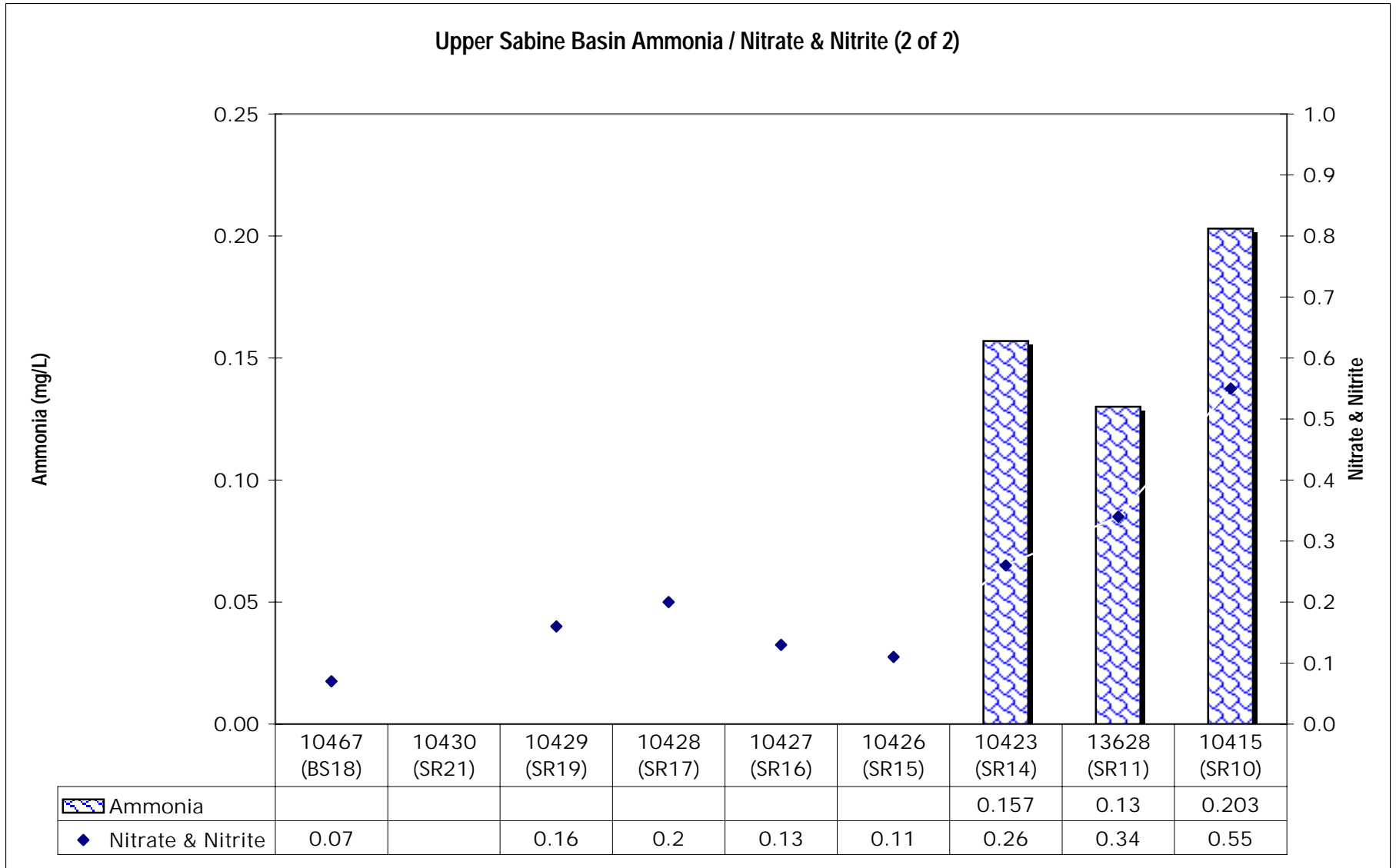
January 2000



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

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

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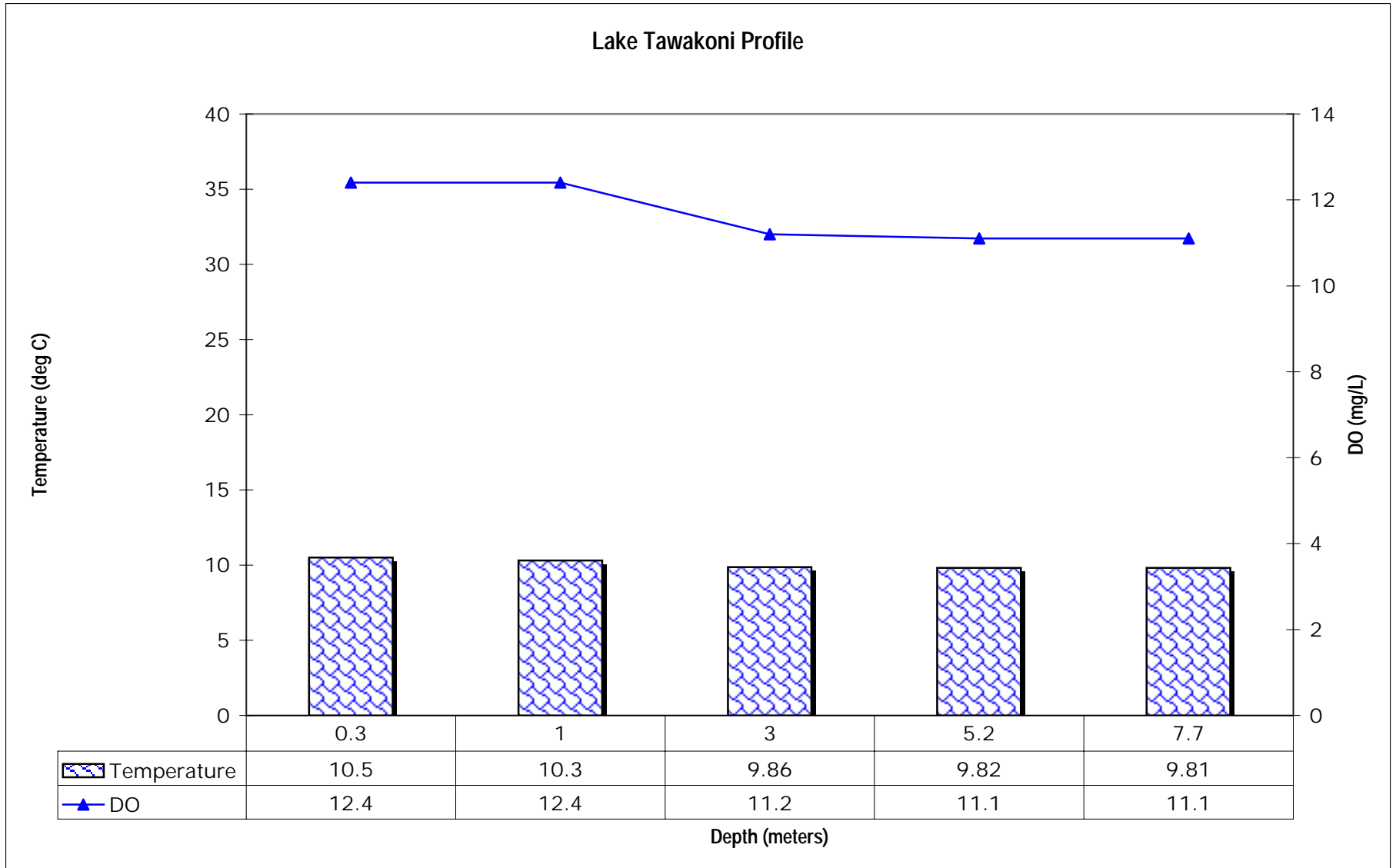
Upper Basin Profiles

January 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
1/11/00 12:52 PM	7.00	10440 (LT23C)	0.3	11.4	8.18	11.1	104	195
			1	10	8.09	10.5	94.3	195
			2.9	9.96	8.02	10.2	91.4	196
1/11/00 12:11 PM	7.00	10435 (LT23D)	0.3	10.4	8	10.2	92.4	195
			1	10	7.95	9.96	89.1	196
			3.8	9.79	7.84	9.57	85.3	194
			6.4	9.79	7.84	9.59	85.6	193
1/11/00 11:15 AM	7.00	10434 (LT23A)	0.3	10.5	8.43	12.4	113	187
			1	10.3	8.39	12.4	112	186
			3	9.86	8.17	11.2	100	190
			5.2	9.82	8.12	11.1	99.6	190
			7.7	9.81	8.06	11.1	99.3	182
1/11/00 9:55 AM	6.12	16691 (LF7)	0.3	10.1	6.94	9.74	87.7	155
			1	10	6.94	9.73	87.6	154
			2.8	9.91	6.92	9.56	85.7	155
			4.9	9.92	6.93	9.59	85.6	154
1/11/00 9:11 AM	6.12	10461 (LF3)	0.3	10.5	7.14	10.5	94.9	155
			1	10.4	7.1	10.4	94.5	155
			3	10.3	6.94	9.82	89.4	155
			5.6	10.2	6.87	9.26	83.7	155
			8.9	10.2	6.84	8.84	79.6	225
1/11/00 9:31 AM	6.12	10462 (LF4)	0.3	10.2	7.1	9.74	88	156
			1	10.2	7.11	9.71	87.6	156
			3.1	10.2	7.12	9.56	86.4	156
			7.3	10.2	7.16	9.62	86.8	156
			10.4	10.2	7.29	9.31	84.4	194
1/11/00 8:21 AM	6.12	10458 (LF2)	0.3	10.9	7.06	9.94	90.2	167
			1	10.9	7.06	9.95	90.1	167
			5.4	10.9	7.03	9.86	89.3	170
			8.9	10.9	6.97	9.63	87.4	167
			11.9	10.9	6.87	9.26	83.6	173

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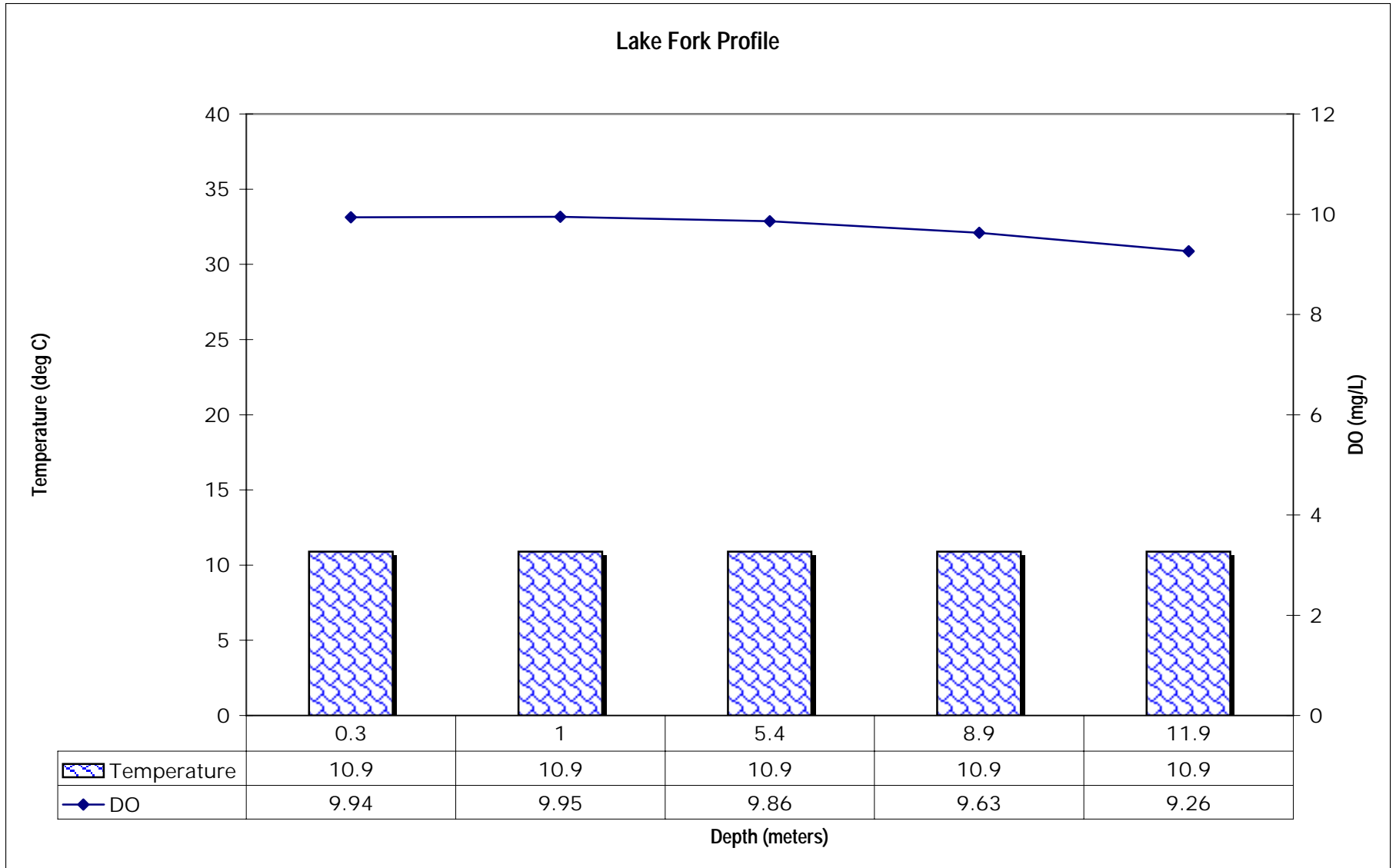
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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Lake Tawakoni Weather and Reservoir Data

January 2000

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
01/01/2000	432.22	(5.28)	5	66	36	0.00	NR
01/02/2000	432.21	(5.29)	5	78	38	0.00	NR
01/03/2000	432.23	(5.27)	5	70	58	0.00	NR
01/04/2000	432.30	(5.20)	5	64	34	0.00	NR
01/05/2000	432.12	(5.38)	5	46	24	0.00	NR
01/06/2000	432.10	(5.40)	5	56	24	0.00	NR
01/07/2000	432.09	(5.41)	5	64	38	0.00	NR
01/08/2000	432.13	(5.37)	5	64	46	0.69	NR
01/09/2000	432.12	(5.38)	5	54	46	0.00	NR
01/10/2000	432.11	(5.39)	5	56	42	0.00	NR
01/11/2000	432.09	(5.41)	5	68	41	0.00	NR
01/12/2000	432.07	(5.43)	5	73	43	0.00	NR
01/13/2000	432.07	(5.43)	5	76	46	0.00	NR
01/14/2000	432.03	(5.47)	5	69	39	0.00	NR
01/15/2000	431.99	(5.51)	5	60	39	0.00	NR
01/16/2000	431.98	(5.52)	5	69	40	0.00	NR
01/17/2000	431.97	(5.53)	5	72	57	0.00	NR
01/18/2000	431.95	(5.55)	5	72	56	0.00	NR
01/19/2000	431.95	(5.55)	5	72	48	0.00	NR
01/20/2000	431.98	(5.52)	5	70	35	0.00	NR
01/21/2000	431.85	(5.65)	5	47	32	0.00	NR
01/22/2000	431.83	(5.67)	5	59	34	0.00	NR
01/23/2000	431.82	(5.68)	5	70	40	0.00	NR
01/24/2000	431.81	(5.69)	5	62	24	0.00	NR
01/25/2000	431.77	(5.73)	5	49	34	0.00	NR
01/26/2000	431.71	(5.79)	5	50	33	0.00	NR
01/27/2000	431.68	(5.82)	5	36	28	0.20	NR
01/28/2000	431.68	(5.82)	5	31	26	1.32	NR
01/29/2000	431.79	(5.71)	5	30	26	0.00	NR
01/30/2000	431.79	(5.71)	5	30	19	0.00	NR
01/31/2000	431.79	(5.71)	5	42	22	0.00	NR
Avg or Tot	431.98	(5.52)	5	59	37	2.21	0.00

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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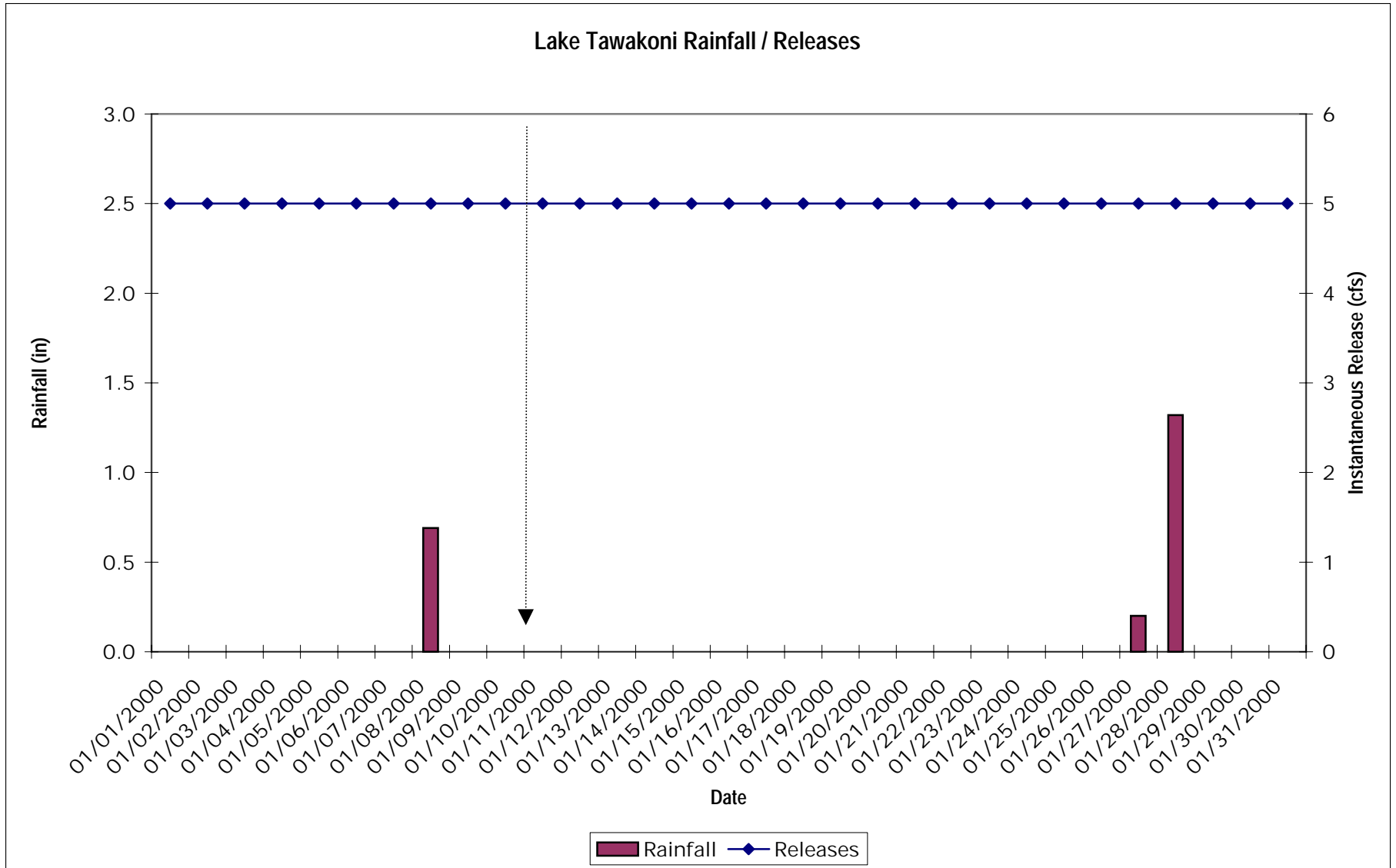
NR: No Reading

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

Lake Tawakoni Sampled on 11/11/2000

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Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

January 2000

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
01/01/2000	399.84	(3.16)	48	48	78	39	0.00	0.02
01/02/2000	399.79	(3.21)	48	48	74	66	0.00	0.03
01/03/2000	399.84	(3.16)	48	48	74	66	0.00	0.03
01/04/2000	399.89	(3.11)	48	48	64	36	0.00	0.32
01/05/2000	399.79	(3.21)	48	48	46	24	0.00	0.02
01/06/2000	399.74	(3.26)	48	48	54	28	0.00	0.17
01/07/2000	399.74	(3.26)	48	48	60	40	0.00	0.01
01/08/2000	399.79	(3.21)	48	48	67	46	0.63	0.00
01/09/2000	399.79	(3.21)	48	48	50	43	0.00	0.04
01/10/2000	399.79	(3.21)	48	48	66	40	0.00	0.06
01/11/2000	399.74	(3.26)	48	48	68	44	0.00	0.27
01/12/2000	399.74	(3.26)	48	48	76	46	0.00	0.10
01/13/2000	399.74	(3.26)	48	48	74	50	0.00	0.10
01/14/2000	399.79	(3.21)	48	48	70	40	0.00	0.27
01/15/2000	399.74	(3.26)	48	48	59	38	0.00	0.14
01/16/2000	399.74	(3.26)	48	48	69	40	0.00	0.16
01/17/2000	399.74	(3.26)	48	48	70	63	0.00	0.10
01/18/2000	399.74	(3.26)	48	48	70	58	0.00	0.09
01/19/2000	399.74	(3.26)	48	48	75	51	0.00	0.23
01/20/2000	399.74	(3.26)	48	48	70	36	0.00	0.10
01/21/2000	399.74	(3.26)	48	48	48	30	0.00	0.07
01/22/2000	399.64	(3.36)	48	48	60	36	0.00	0.15
01/23/2000	399.69	(3.31)	48	48	68	43	0.00	0.19
01/24/2000	399.69	(3.31)	48	48	62	30	0.00	0.13
01/25/2000	399.69	(3.31)	48	48	47	30	0.00	0.08
01/26/2000	399.64	(3.36)	48	48	50	24	0.00	0.14
01/27/2000	399.59	(3.41)	48	48	36	30	0.08	0.00
01/28/2000	399.74	(3.26)	48	48	32	26	FZ	FZ
01/29/2000	399.74	(3.26)	48	48	30	28	0.00	FZ
01/30/2000	399.74	(3.26)	48	48	30	22	0.00	FZ
01/31/2000	399.74	(3.26)	48	48	38	36	0.00	0.00
Avg or Tot	399.74	(3.26)	48	48	59	40	0.71	3.02

Units	Avg Feet M.S.L.	Avg Feet	Avg cfs Previous 24 hrs	cfs	Avg Deg F	Avg Deg F	Tot Inches	Tot Inches
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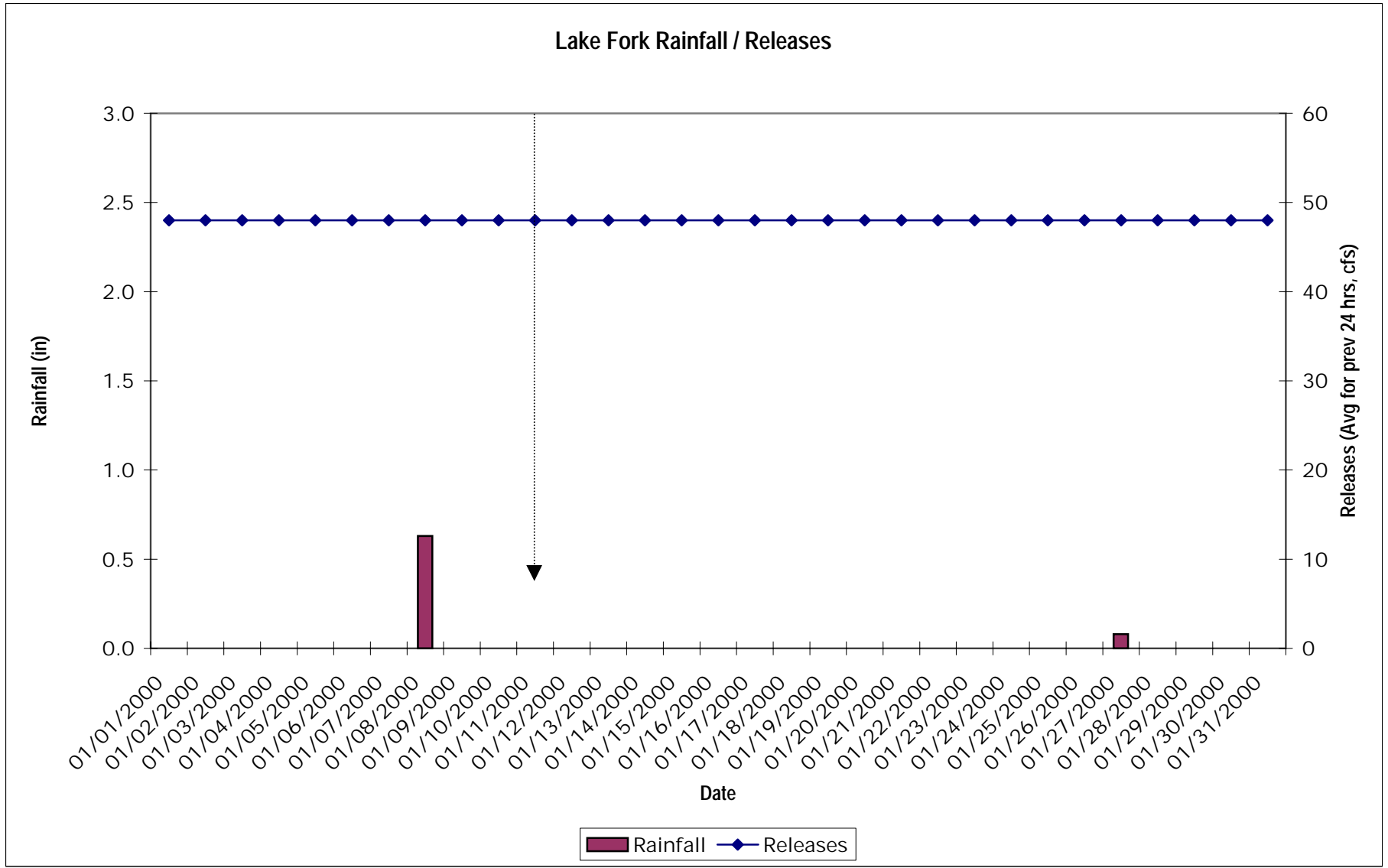
TOP: Top of Pool = 403 Feet M.S.L.

FRZN: Gauge Frozen

Lake Fork Sampled on 1/11/2000

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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

January 2000

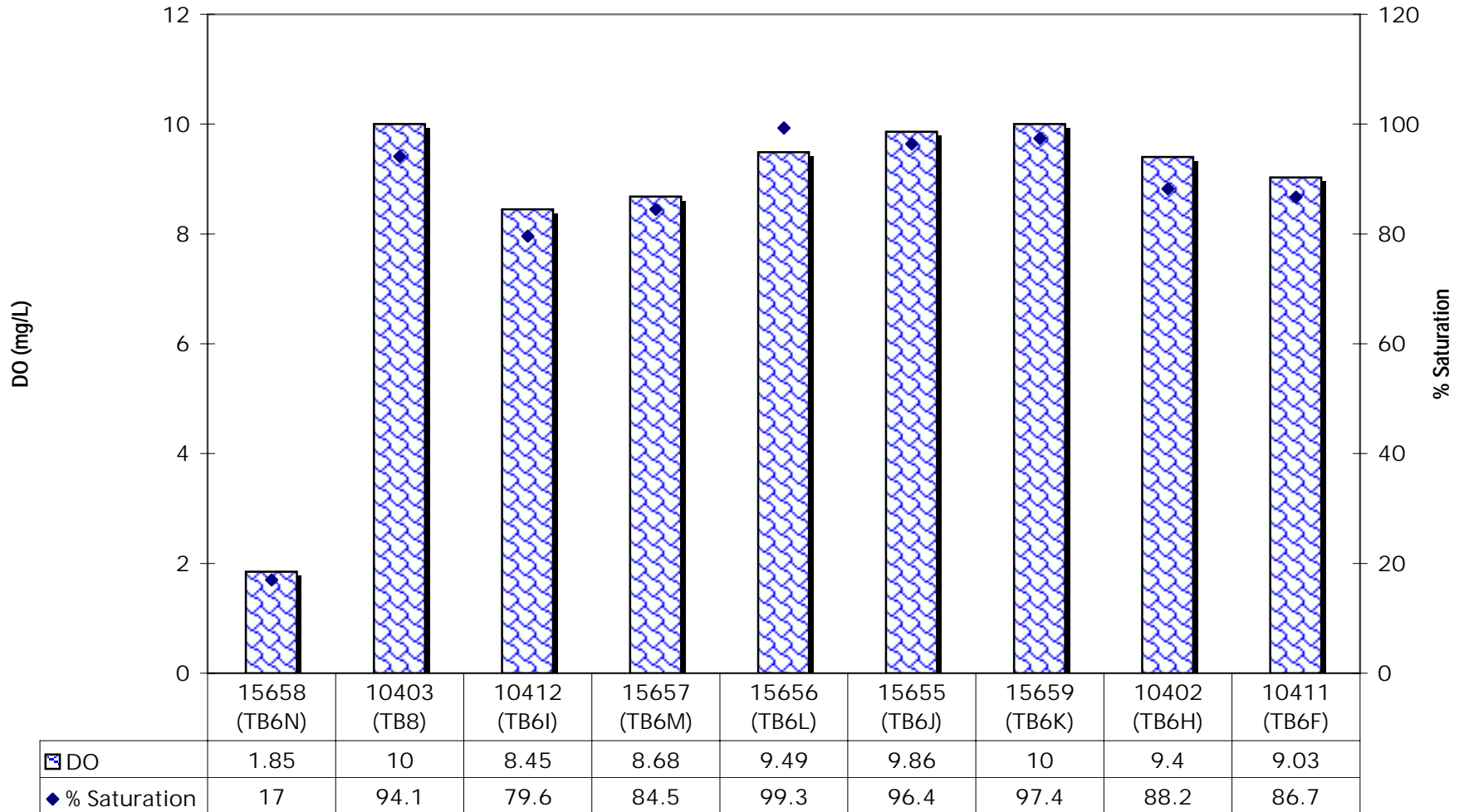
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
1/12/00 1:30 PM	4.10	15658 (TB6N)	11.1	7.83	1.85	17	1515	*	0.13	19.4	57	23	*	3.05	< 0.02	13.1	*	*	*	148	16.7
1/12/00 11:46 AM	4.00	10403 (TB8)	11.7	7.15	10	94.1	462	*	0.61	15.8	100	*	*	< 0.001	0.7	< 0.02	*	*	*	72.4	61.2
1/12/00 12:10 PM	4.00	10412 (TB6I)	12.1	6.94	8.45	79.6	285	*	0.59	16.2	84	*	*	< 0.001	0.45	1.37	*	*	*	31.5	33.6
1/12/00 2:00 PM	4.00	15657 (TB6M)	13.7	6.71	8.68	84.5	244	*	0.6	11.1	18	*	*	0.059	< 0.02	< 0.02	*	*	*	24.8	44.5
1/12/00 1:43 PM	4.00	15656 (TB6L)	17.5	7.75	9.49	99.3	206	*	0.33	22.5	4	*	*	0.069	< 0.02	< 0.02	*	*	*	23.3	22.4
1/12/00 10:26 AM	4.00	15655 (TB6J)	14.3	7.68	9.86	96.4	176	*	0.82	5.74	< 2	*	*	0.028	< 0.02	< 0.02	*	*	*	18	20.6
1/12/00 1:07 PM	4.00	15659 (TB6K)	14.1	7.68	10	97.4	166	*	0.84	5.71	< 2	*	*	0.047	< 0.02	< 0.02	*	*	*	17.3	17.8
1/12/00 11:26 AM	4.00	10402 (TB6H)	12.6	7.44	9.4	88.2	172	*	1.39	2.5	< 2	*	*	0.029	0.07	< 0.02	*	*	*	17.3	15.4
1/12/00 11:07 AM	4.00	10411 (TB6F)	13.3	7.46	9.03	86.7	147	*	1.1	4.47	< 2	*	*	0.028	0.03	< 0.02	*	*	*	14.4	16.6
1/12/00 9:45 AM	4.00	10407 (TB6CN)	14.8	7.49	9.69	95.5	130	*	1.01	7.96	< 2	*	*	0.015	< 0.02	< 0.02	*	*	*	14.1	18.8
1/12/00 11:18 AM	4.00	10404 (TB6A)	13.7	7.05	7.35	70.8	142	*	2.47	0.38	2	*	*	< 0.001	0.09	< 0.02	*	*	*	12.4	14.1
1/12/00 12:45 PM	3.03	10340 (BA4)	18.2	7.32	6.12	64.9	684	*	0.19	21.9	204	88	*	0.286	0.3	0.14	*	*	*	66.7	157
1/12/00 10:37 AM	3.00	10401 (TB6S)	13.9	7.37	8.69	84	147	*	> 2	0.91	5	*	*	< 0.001	0.09	< 0.02	*	*	*	12.4	14.4
1/12/00 10:53 AM	3.00	10400 (TB6)	13.6	7.15	7.53	72.3	142	*	> 0.9	1.5	2	*	*	0.016	0.09	< 0.02	*	*	*	13.1	14.3
1/12/00 12:20 PM	3.00	10399 (SR5)	15.8	7.21	7.2	72.6	148	*	> 1.1	2.78	< 2	*	*	0.019	0.07	< 0.02	*	*	*	12.4	13.4
1/12/00 1:55 PM	3.00	10398 (SR3)	16.9	7.23	7.16	74	165	*	1.06	6.37	18	*	*	< 0.001	0.06	< 0.02	*	*	*	14.5	19.7
1/12/00 9:18 AM	2.05	10465 (BCC1)	14.5	6.11	7.43	72.8	59	*	> 0.8	8.54	> 120	*	*	< 0.001	0.04	< 0.02	*	*	*	6.2	2.7
1/12/00 8:30 AM	2.00	10397 (SR2)	15.9	7.11	8.44	85.4	165	*	0.64	8.86	15	*	*	< 0.001	0.06	< 0.02	*	*	*	14.4	19.1

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

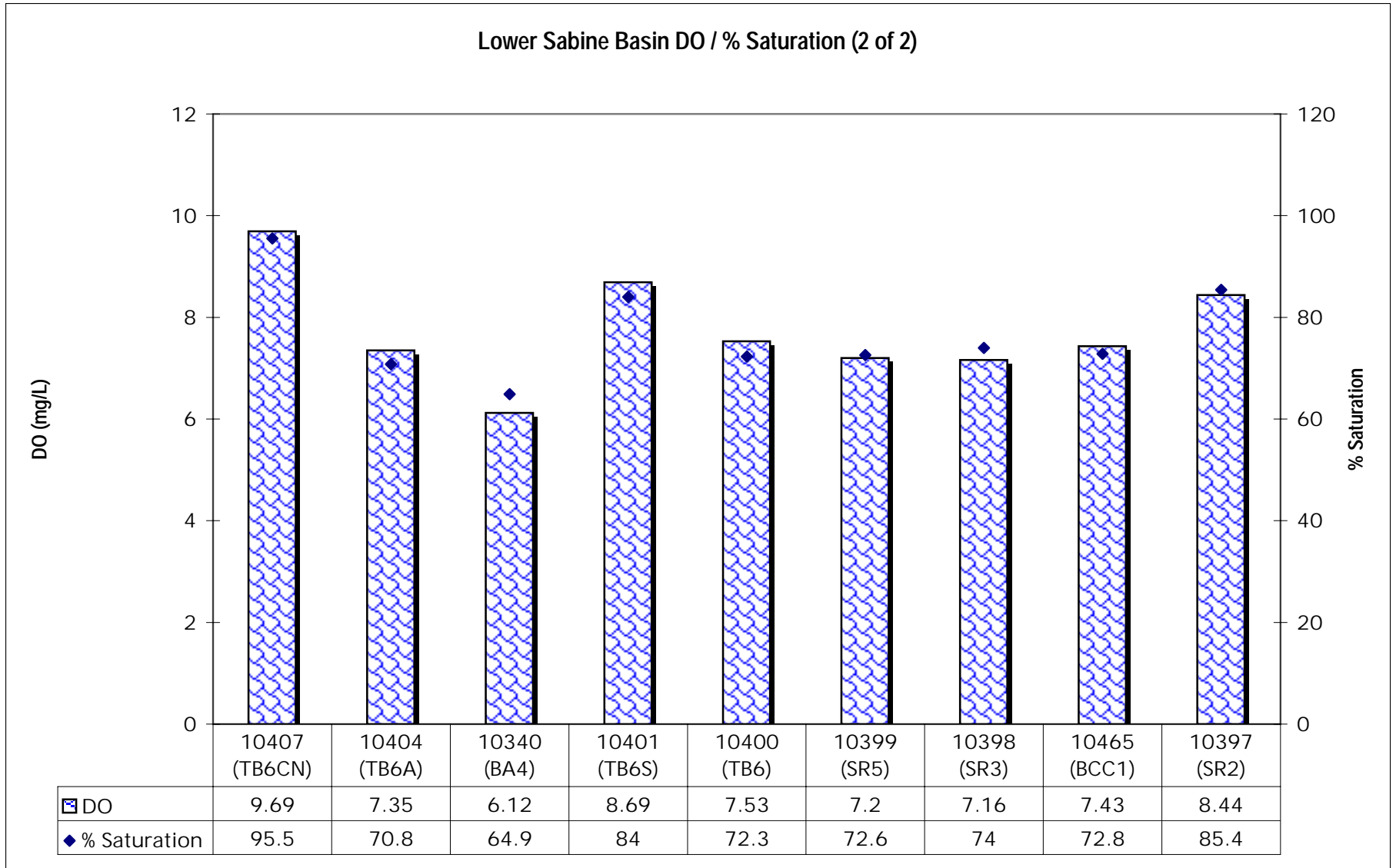
January 2000

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



SABINE RIVER AUTHORITY OF TEXAS

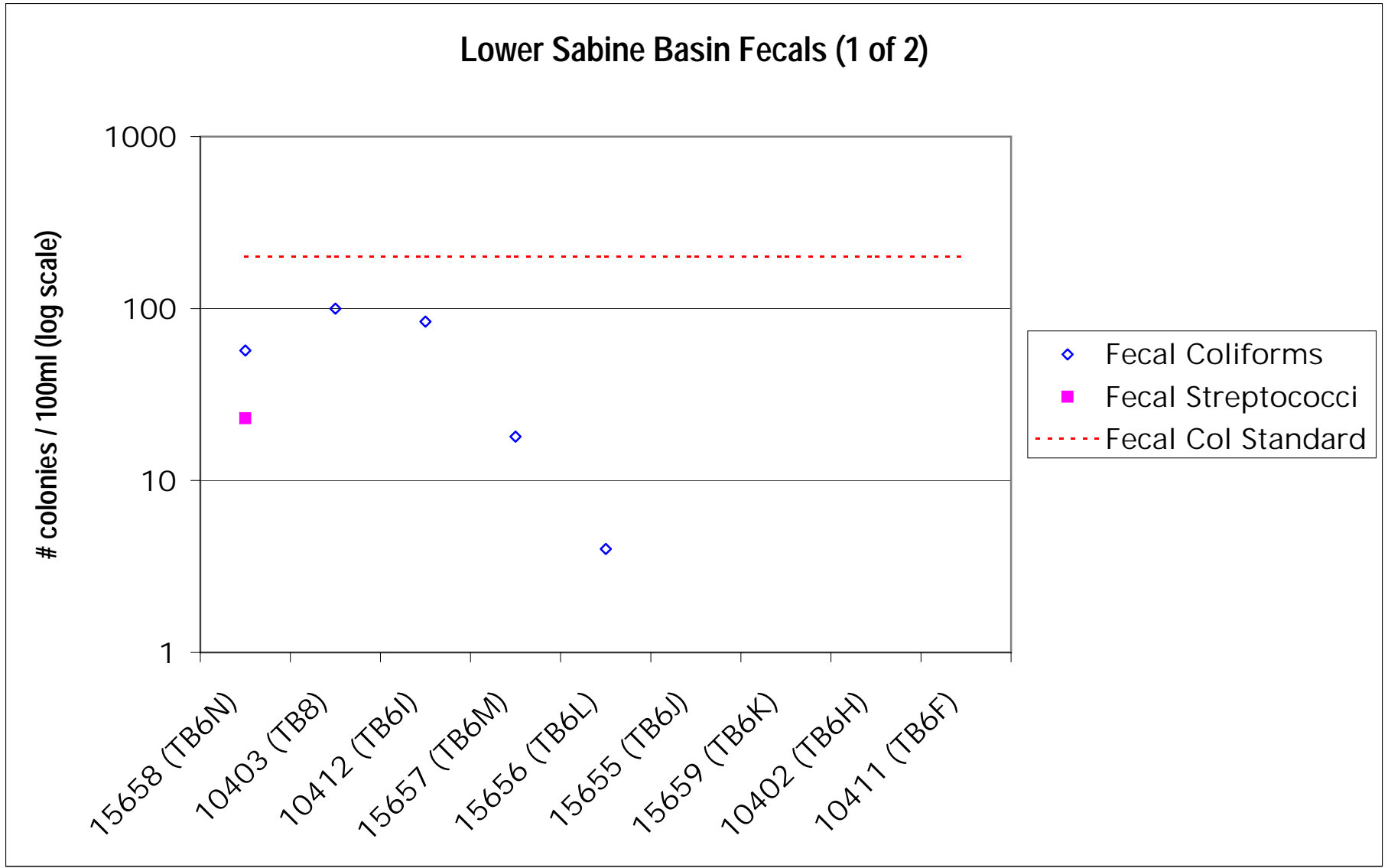
January 2000



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

SABINE RIVER AUTHORITY OF TEXAS

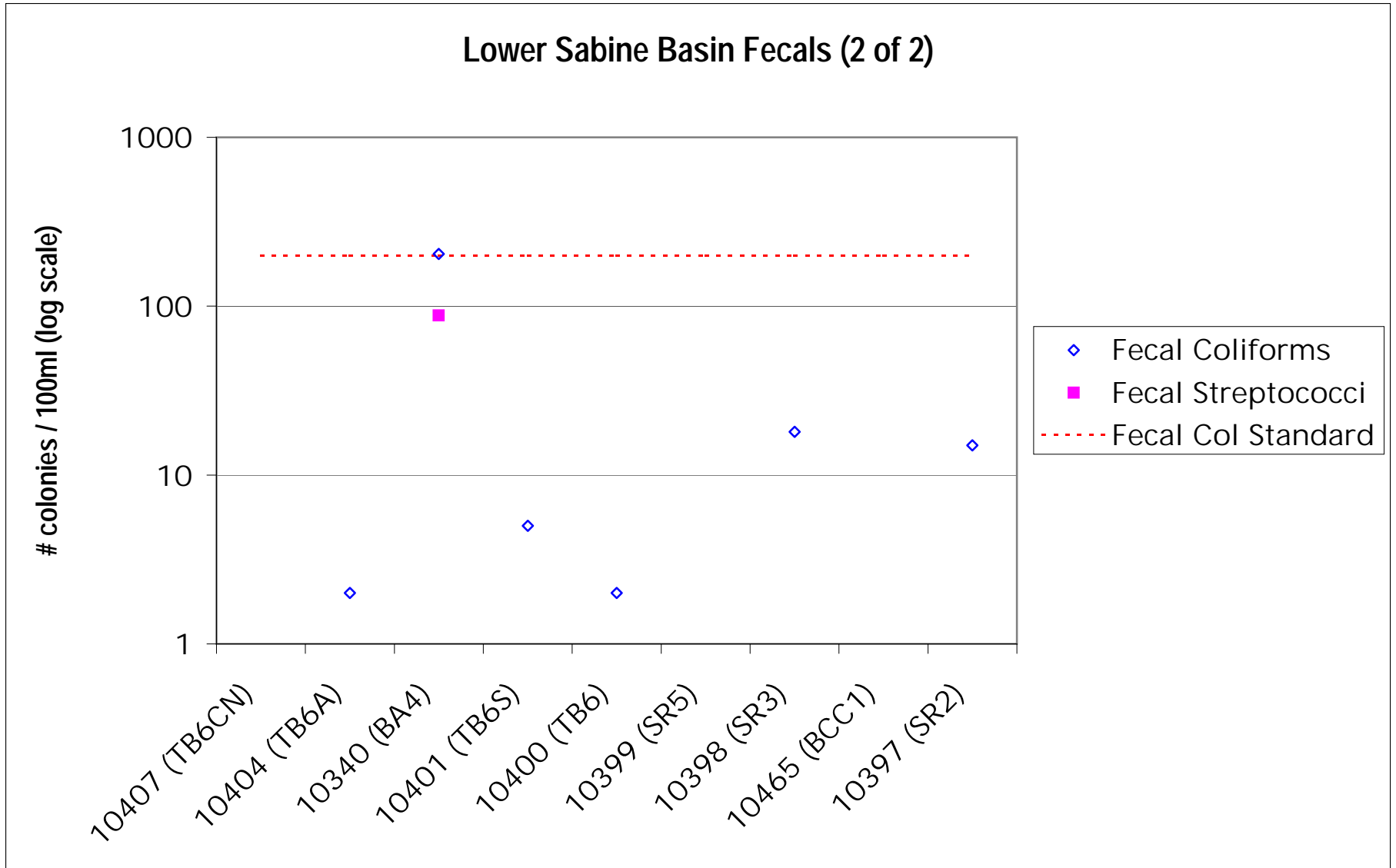
January 2000



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

SABINE RIVER AUTHORITY OF TEXAS

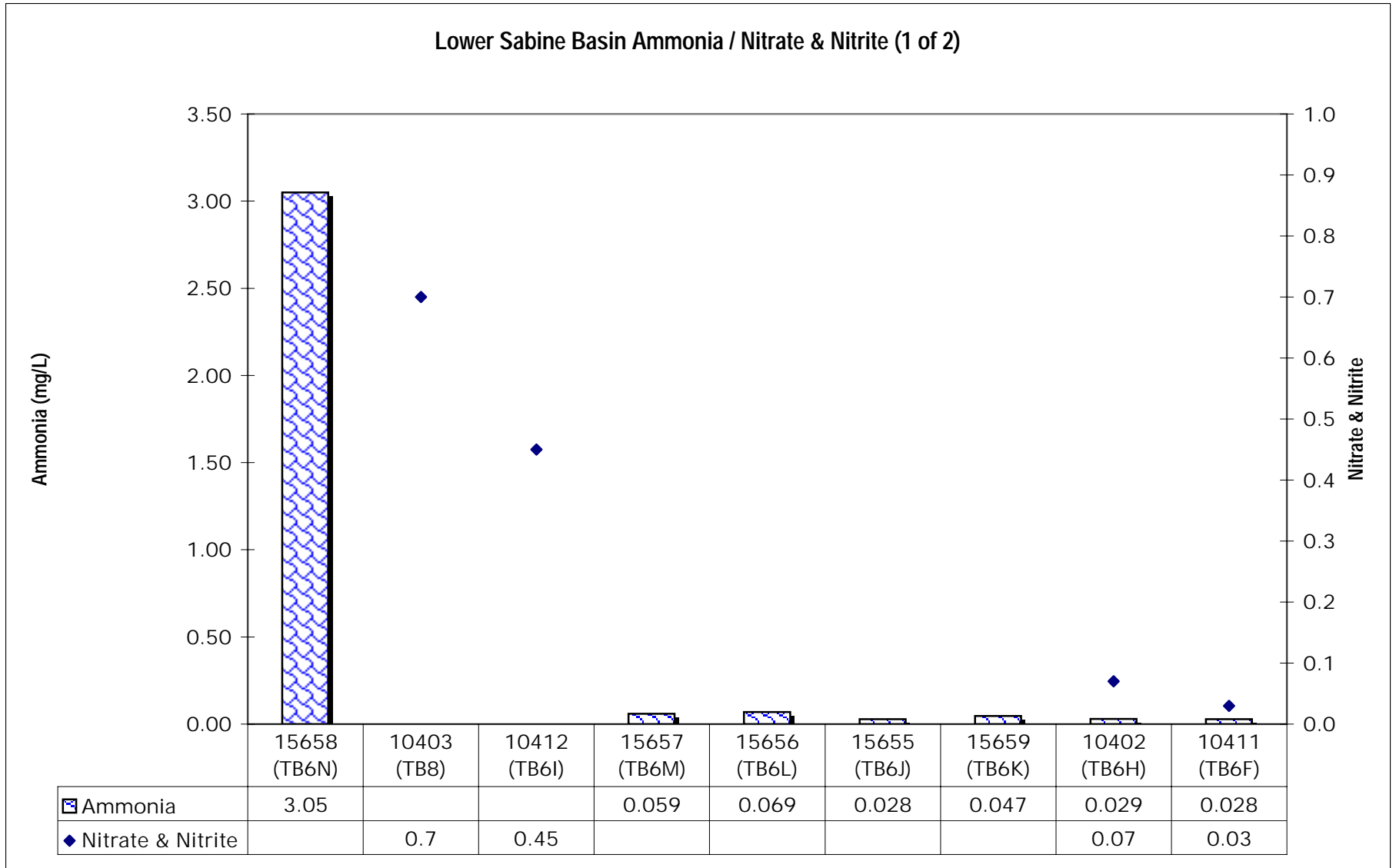
January 2000



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

SABINE RIVER AUTHORITY OF TEXAS

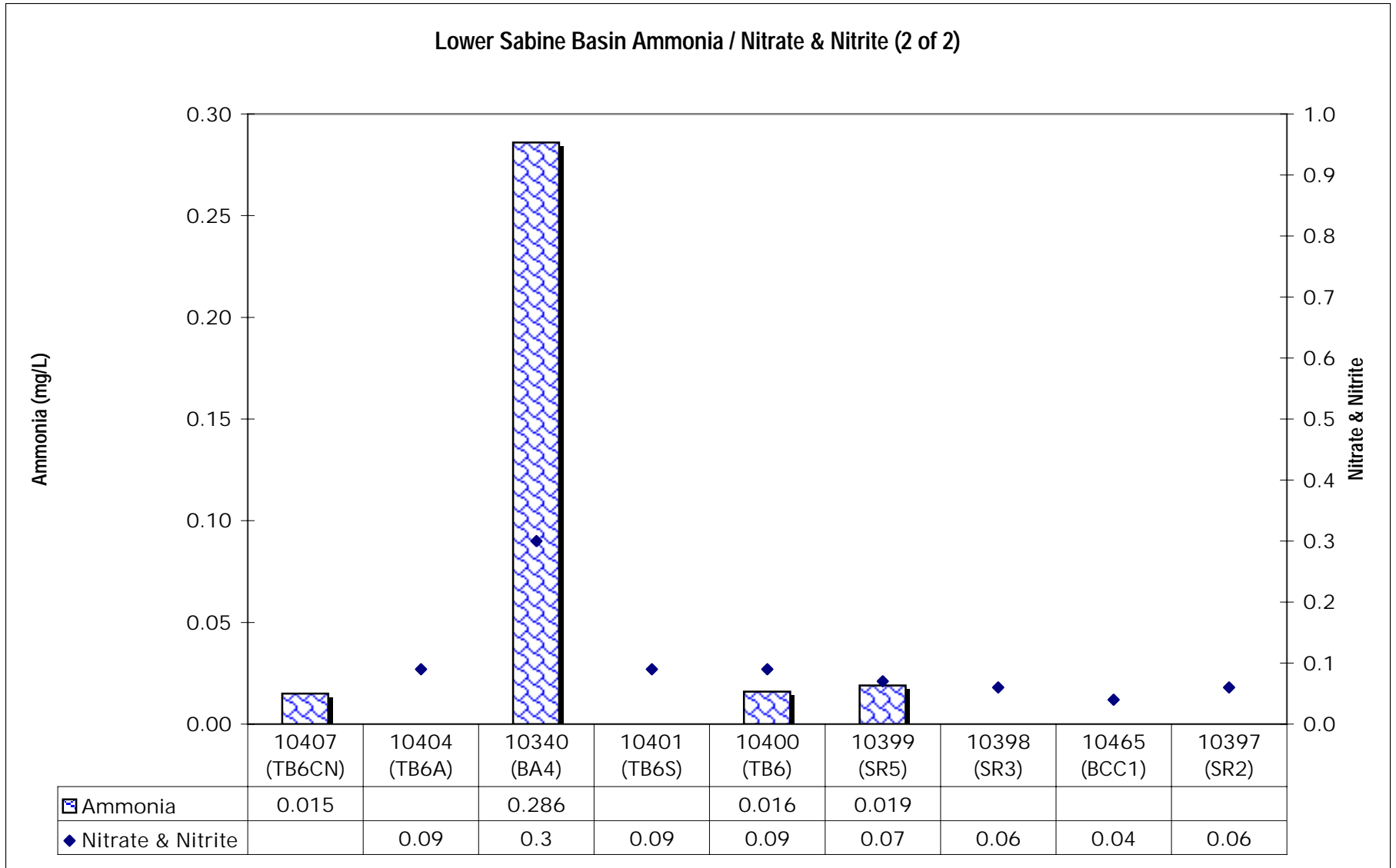
January 2000



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

SABINE RIVER AUTHORITY OF TEXAS

January 2000



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

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

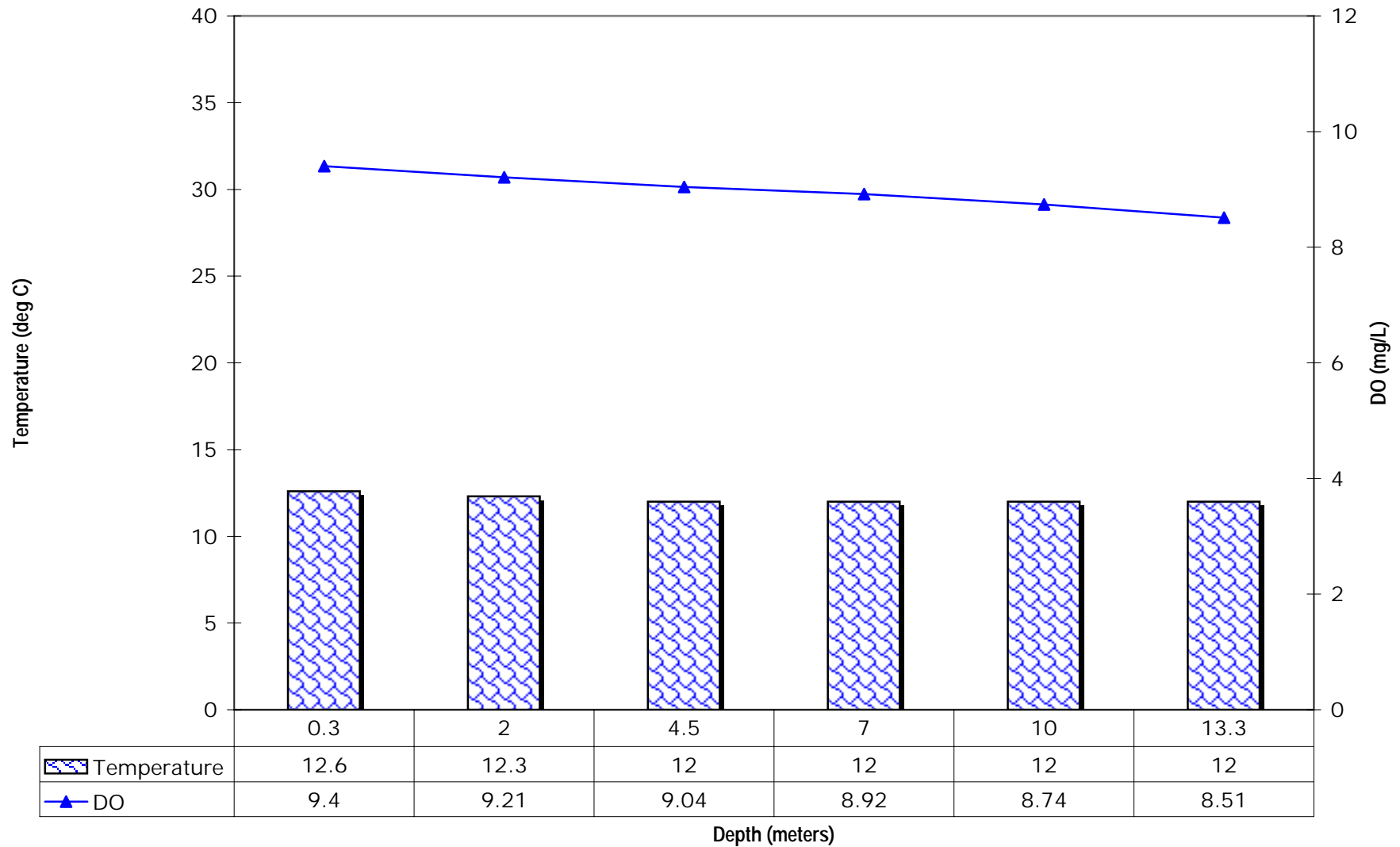
January 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
1/12/00 11:46 AM	4.00	10403 (TB8)	0.3	11.7	7.15	10	94.1	462
			1	11.6	7.15	9.9	92.3	463
			3.4	11.2	7.12	9.41	87.5	458
			7.5	11.2	7.14	9.35	86.4	460
			10.2	11.2	7.15	9.4	86.7	462
1/12/00 12:10 PM	4.00	10412 (TB6I)	0.3	12.1	6.94	8.45	79.6	285
			1	12.1	6.92	8.43	79.8	285
			2.1	11.8	6.95	8.25	77	287
1/12/00 2:00 PM	4.00	15657 (TB6M)	0.3	13.7	6.71	8.68	84.5	244
			2.5	11.9	6.58	4.57	42.3	285
1/12/00 1:43 PM	4.00	15656 (TB6L)	0.3	17.5	7.75	9.49	99.3	206
			1.1	17.2	7.74	9.46	98.2	207
1/12/00 10:26 AM	4.00	15655 (TB6J)	0.3	14.3	7.68	9.86	96.4	176
			2	13.5	7.55	9.6	92.4	177
			3.4	13.1	7.51	9.39	89.3	177
1/12/00 1:07 PM	4.00	15659 (TB6K)	0.3	14.1	7.68	10	97.4	166
			2	14.1	7.57	9.66	94	166
			5	12.4	7.09	8.44	79.1	164
			8.3	12.5	7.17	8.52	80	165
1/12/00 11:26 AM	4.00	10402 (TB6H)	0.3	12.6	7.44	9.4	88.2	172
			2	12.3	7.45	9.21	86.3	172
			4.5	12	7.41	9.04	84.1	172
			7	12	7.41	8.92	82.8	172
			10	12	7.39	8.74	81.2	172
			13.3	12	7.51	8.51	79.2	182
1/12/00 11:07 AM	4.00	10411 (TB6F)	0.3	13.3	7.46	9.03	86.7	147
			2	12.8	7.41	8.77	82.6	147
			4.1	13.3	7.42	8.76	82.2	151
1/12/00 9:45 AM	4.00	10407 (TB6CN)	0.3	14.8	7.49	9.69	95.5	130
			2	13.9	7.45	9.46	92.1	129
			4.2	14.1	7.38	9.13	89.1	126
1/12/00 11:18 AM	4.00	10404 (TB6A)	0.3	13.7	7.05	7.35	70.8	142
			3	13.6	7.06	7.02	67.4	136
			6	13.4	6.99	6.78	65.1	142
			9	13.1	6.97	6.5	61.7	132
			15.3	13	6.99	6.44	61.1	138
01/12/2000 13:55	3.00	10398 (SR3)	0.3	16.9	7.23	7.16	74	165
			3	16.9	7.21	6.88	70.9	160
			6.1	16.9	7.22	6.81	70.5	162
01/12/2000 8:30	2.00	10397 (SR2)	0.3	15.9	7.11	8.44	85.4	165
			2.5	15.9	7.09	8.36	84.8	161
			4.5	15.9	7.09	8.29	83.9	162

SABINE RIVER AUTHORITY OF TEXAS

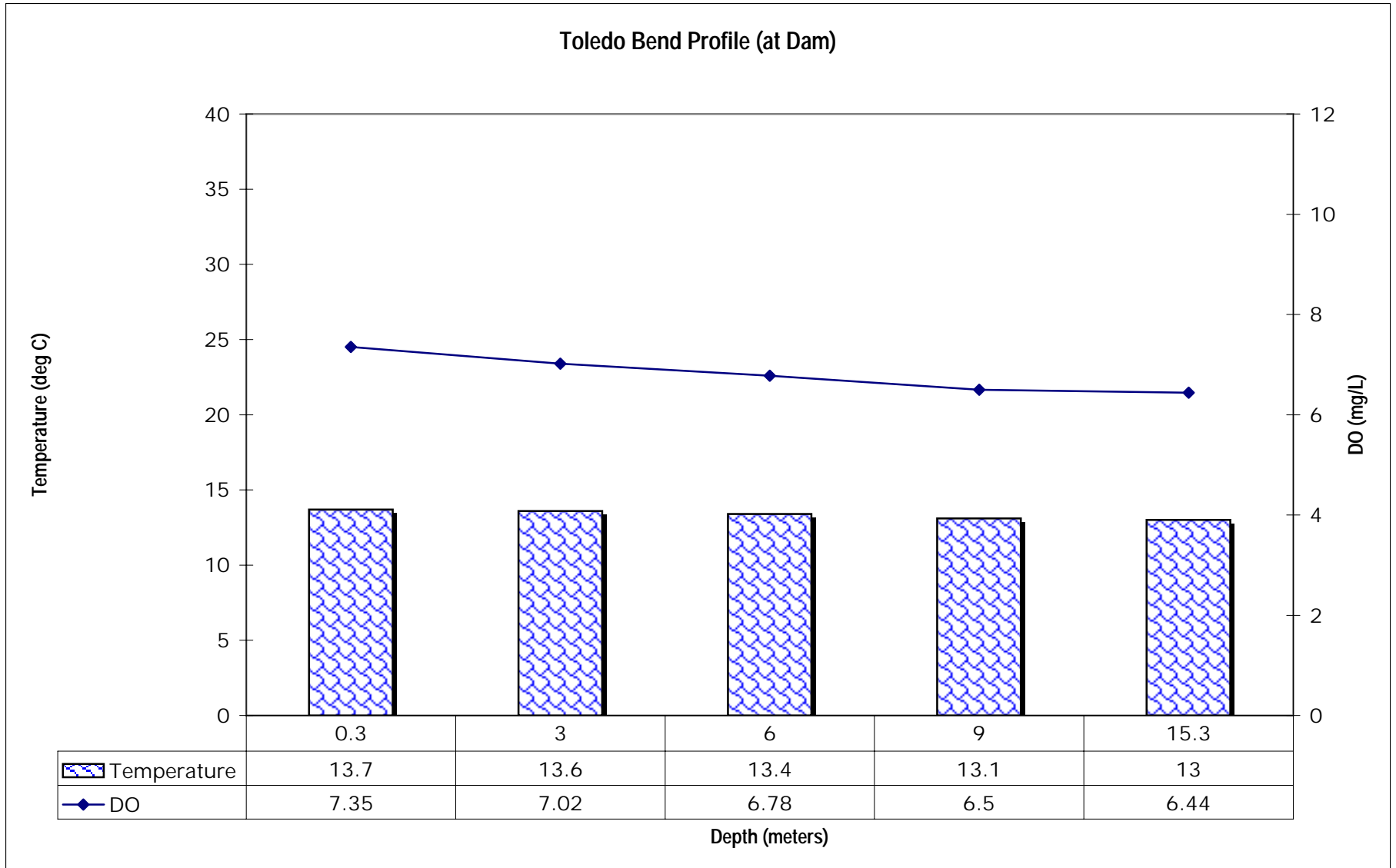
January 2000

Toledo Bend Profile (at Pendleton Bridge)



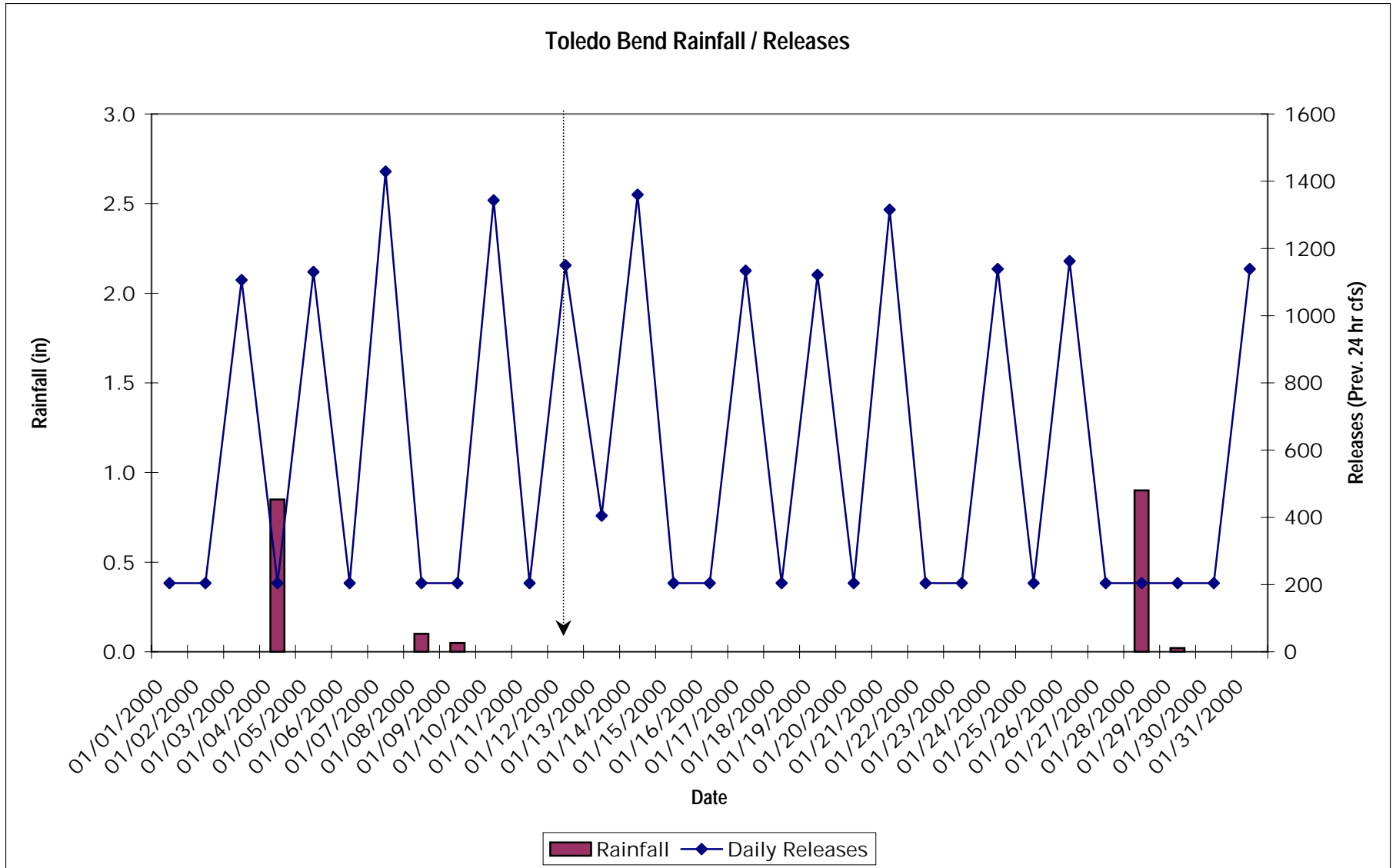
SABINE RIVER AUTHORITY OF TEXAS

January 2000



SABINE RIVER AUTHORITY OF TEXAS

January



SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

January

Date	Rainfall	Gauge Height	GH - FS	Flow
01/01/2000	*	15.47	(25.53)	1454
01/02/2000	*	12.80	(28.20)	256
01/03/2000	*	12.73	(28.27)	237
01/04/2000	*	14.99	(26.01)	1171
01/05/2000	*	12.82	(28.18)	261
01/06/2000	*	15.12	(25.88)	1245
01/07/2000	*	12.80	(28.20)	256
01/08/2000	*	15.23	(25.77)	1309
01/09/2000	*	12.82	(28.18)	261
01/10/2000	*	12.75	(28.25)	242
01/11/2000	*	15.40	(25.60)	1412
01/12/2000	*	12.79	(28.21)	253
01/13/2000	*	15.10	(25.90)	1234
01/14/2000	*	12.75	(28.25)	242
01/15/2000	*	15.29	(25.71)	1345
01/16/2000	*	12.79	(28.21)	253
01/17/2000	*	12.72	(28.28)	234
01/18/2000	*	15.11	(25.89)	1240
01/19/2000	*	12.79	(28.21)	253
01/20/2000	*	15.13	(25.87)	1251
01/21/2000	*	12.67	(28.33)	221
01/22/2000	*	15.22	(25.78)	1304
01/23/2000	*	12.75	(28.25)	242
01/24/2000	*	12.63	(28.37)	211
01/25/2000	*	14.86	(26.14)	1099
01/26/2000	*	12.69	(28.31)	226
01/27/2000	*	14.94	(26.06)	1143
01/28/2000	*	NR	NR	NR
01/29/2000	*	15.36	(25.64)	1387
01/30/2000	*	12.88	(28.12)	278
01/31/2000	*	12.78	(28.22)	250
Avg or Tot		13.81	(27.19)	692

	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

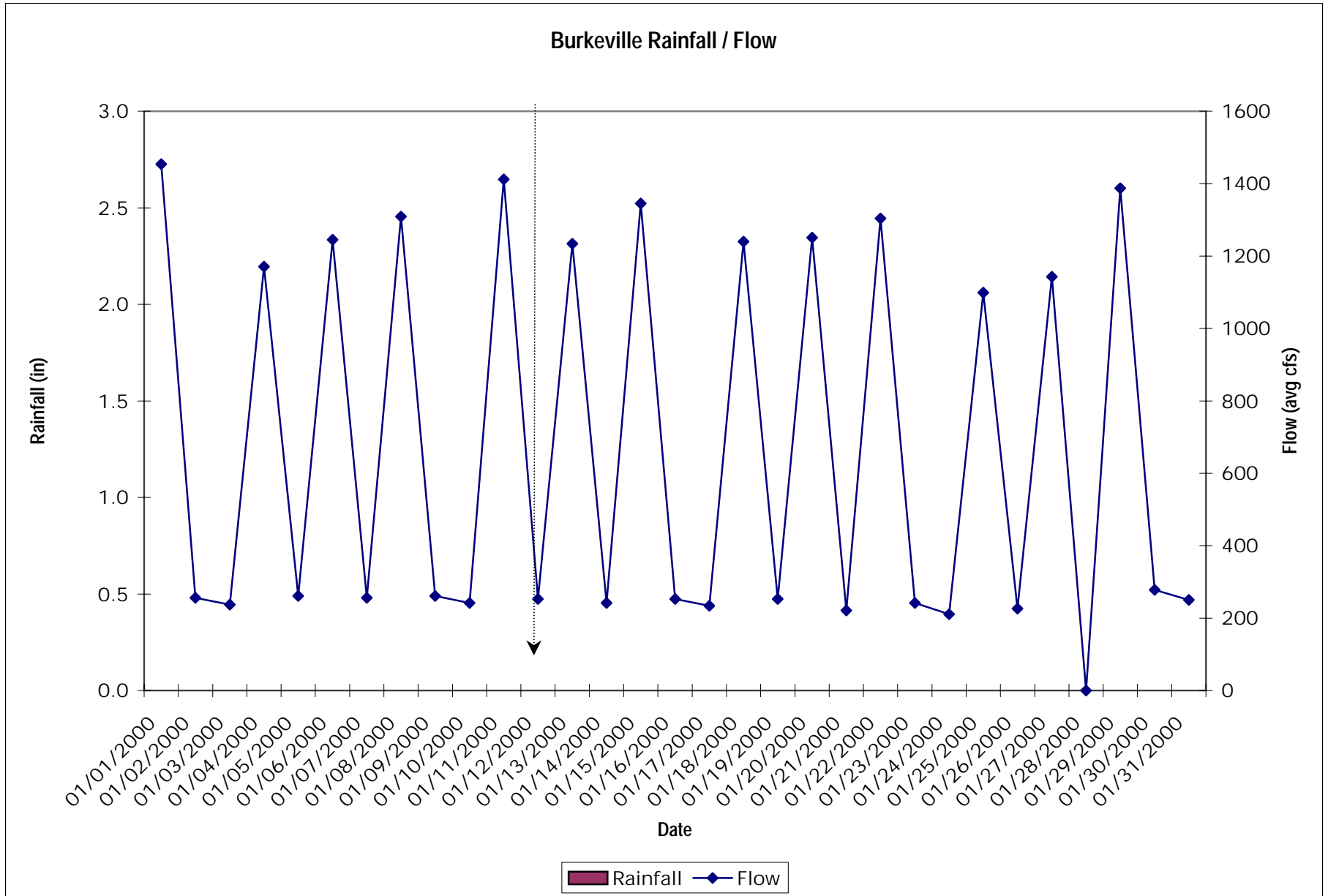
OUT: Gage Out

Lower Sabine Basin Sampled on 1/12/2000

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

SABINE RIVER AUTHORITY OF TEXAS

January 2000



Lower Sabine Basin Sampled on 1/12/2000.

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

January 2000

Date	Gauge Height	GH - FS	Flow Avg	308 Rainfall
01/01/2000	13.28	(16.72)	871	0.00
01/02/2000	14.84	(15.16)	1771	0.00
01/03/2000	13.39	(16.61)	925	0.00
01/04/2000	13.08	(16.92)	777	0.04
01/05/2000	14.62	(15.38)	1627	0.00
01/06/2000	13.34	(16.66)	900	0.00
01/07/2000	14.49	(15.51)	1544	0.00
01/08/2000	13.30	(16.70)	881	0.15
01/09/2000	14.81	(15.19)	1750	0.00
01/10/2000	13.36	(16.64)	910	0.00
01/11/2000	13.05	(16.95)	763	0.00
01/12/2000	14.80	(15.20)	1744	0.00
01/13/2000	13.34	(16.66)	900	0.00
01/14/2000	14.55	(15.45)	1582	0.00
01/15/2000	13.24	(16.76)	852	0.00
01/16/2000	14.72	(15.28)	1691	0.00
01/17/2000	13.29	(16.71)	876	0.00
01/18/2000	12.99	(17.01)	735	0.00
01/19/2000	14.58	(15.42)	1601	0.00
01/20/2000	13.30	(16.70)	881	0.00
01/21/2000	14.49	(15.51)	1544	0.00
01/22/2000	13.15	(16.85)	809	0.00
01/23/2000	14.73	(15.27)	1698	0.00
01/24/2000	13.25	(16.75)	857	0.00
01/25/2000	12.91	(17.09)	700	0.00
01/26/2000	14.37	(15.63)	1469	0.00
01/27/2000	13.16	(16.84)	814	0.00
01/28/2000	14.52	(15.48)	1563	0.19
01/29/2000	13.58	(16.42)	1022	0.01
01/30/2000	15.00	(15.00)	1879	0.00
01/31/2000	13.51	(16.49)	986	0.00
Avg or Tot	13.84	(16.16)	1191	0.39

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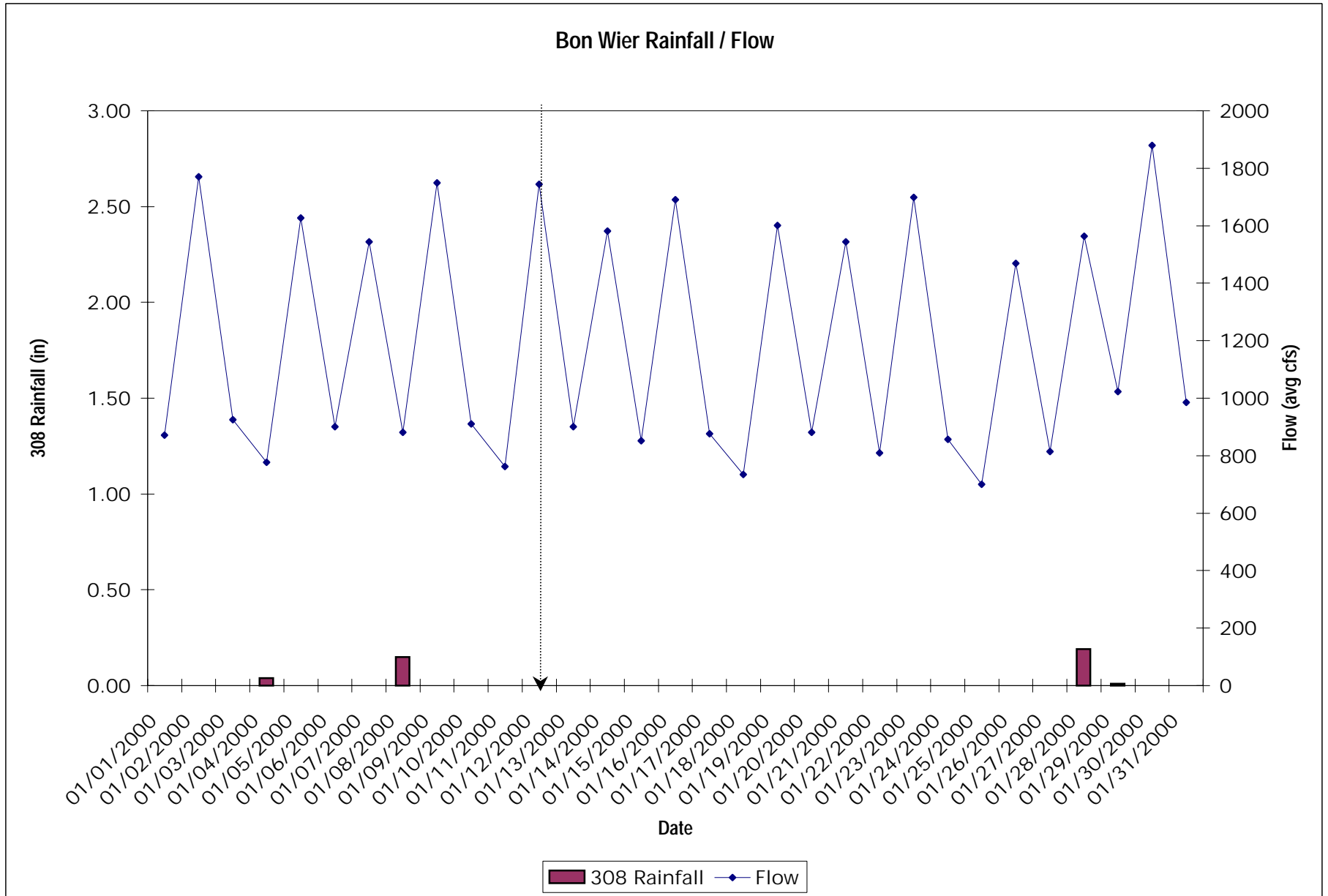
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 1/12/2000

Sabine River Authority of Texas

January 2000



SABINE RIVER AUTHORITY OF TEXAS

Ruliff Weather and River Data

January 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>
01/01/2000	14.91	(9.09)	1398	2773	1398	0.00
01/02/2000	15.13	(8.87)	1478	2932	1438	0.00
01/03/2000	15.15	(8.85)	1485	2945	1454	0.00
01/04/2000	15.50	(8.50)	1617	3207	1495	0.32
01/05/2000	14.62	(9.38)	1299	2577	1455	0.00
01/06/2000	14.74	(9.26)	1340	2658	1436	0.00
01/07/2000	15.30	(8.70)	1542	3059	1451	0.00
01/08/2000	15.05	(8.95)	1448	2872	1451	0.00
01/09/2000	15.24	(8.76)	1519	3013	1458	0.20
01/10/2000	15.28	(8.72)	1534	3043	1466	0.00
01/11/2000	15.44	(8.56)	1595	3164	1478	0.00
01/12/2000	14.62	(9.38)	1299	2577	1463	0.00
01/13/2000	14.88	(9.12)	1388	2753	1457	0.00
01/14/2000	15.36	(8.64)	1565	3104	1465	0.00
01/15/2000	15.01	(8.99)	1433	2842	1463	0.00
01/16/2000	15.17	(8.83)	1493	2961	1465	0.00
01/17/2000	15.10	(8.90)	1467	2910	1465	0.00
01/18/2000	15.30	(8.70)	1542	3059	1469	0.00
01/19/2000	14.49	(9.51)	1254	2487	1458	0.00
01/20/2000	14.56	(9.44)	1278	2535	1449	0.00
01/21/2000	15.11	(8.89)	1470	2916	1450	0.00
01/22/2000	14.82	(9.18)	1368	2713	1446	0.00
01/23/2000	15.05	(8.95)	1448	2872	1446	0.00
01/24/2000	14.99	(9.01)	1426	2828	1445	0.00
01/25/2000	15.23	(8.77)	1515	3005	1448	0.00
01/26/2000	14.32	(9.68)	1197	2374	1438	0.00
01/27/2000	14.42	(9.58)	1231	2442	1431	0.00
01/28/2000	15.00	(9.00)	1430	2836	1431	0.01
01/29/2000	14.85	(9.15)	1378	2733	1429	0.00
01/30/2000	15.24	(8.76)	1519	3013	1432	0.00
01/31/2000	15.86	(8.14)	1755	3481	1442	0.00
Avg or Tot	15.02	(8.98)	1442	88684		0.53

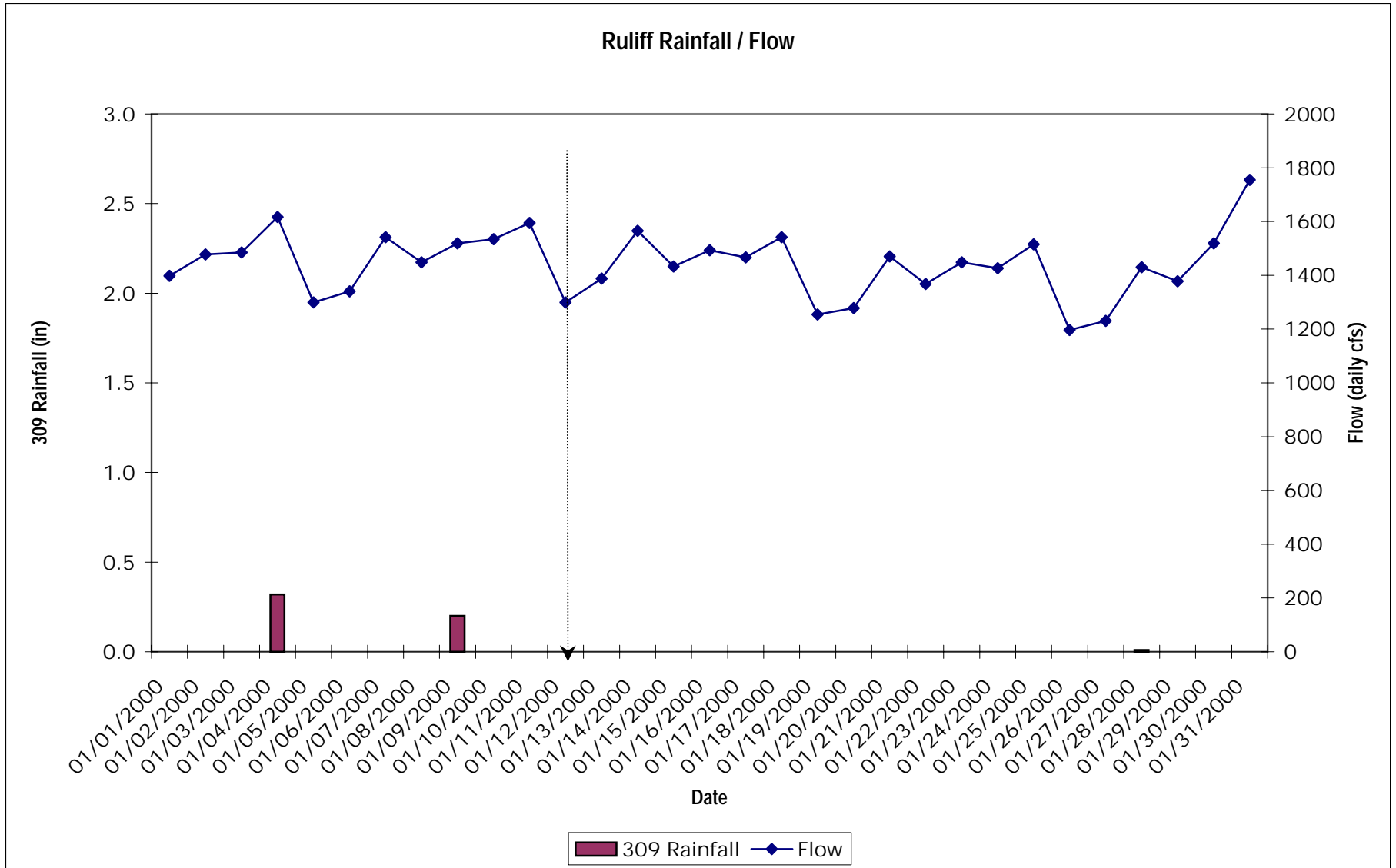
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 1/12/2000

SABINE RIVER AUTHORITY OF TEXAS

January 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

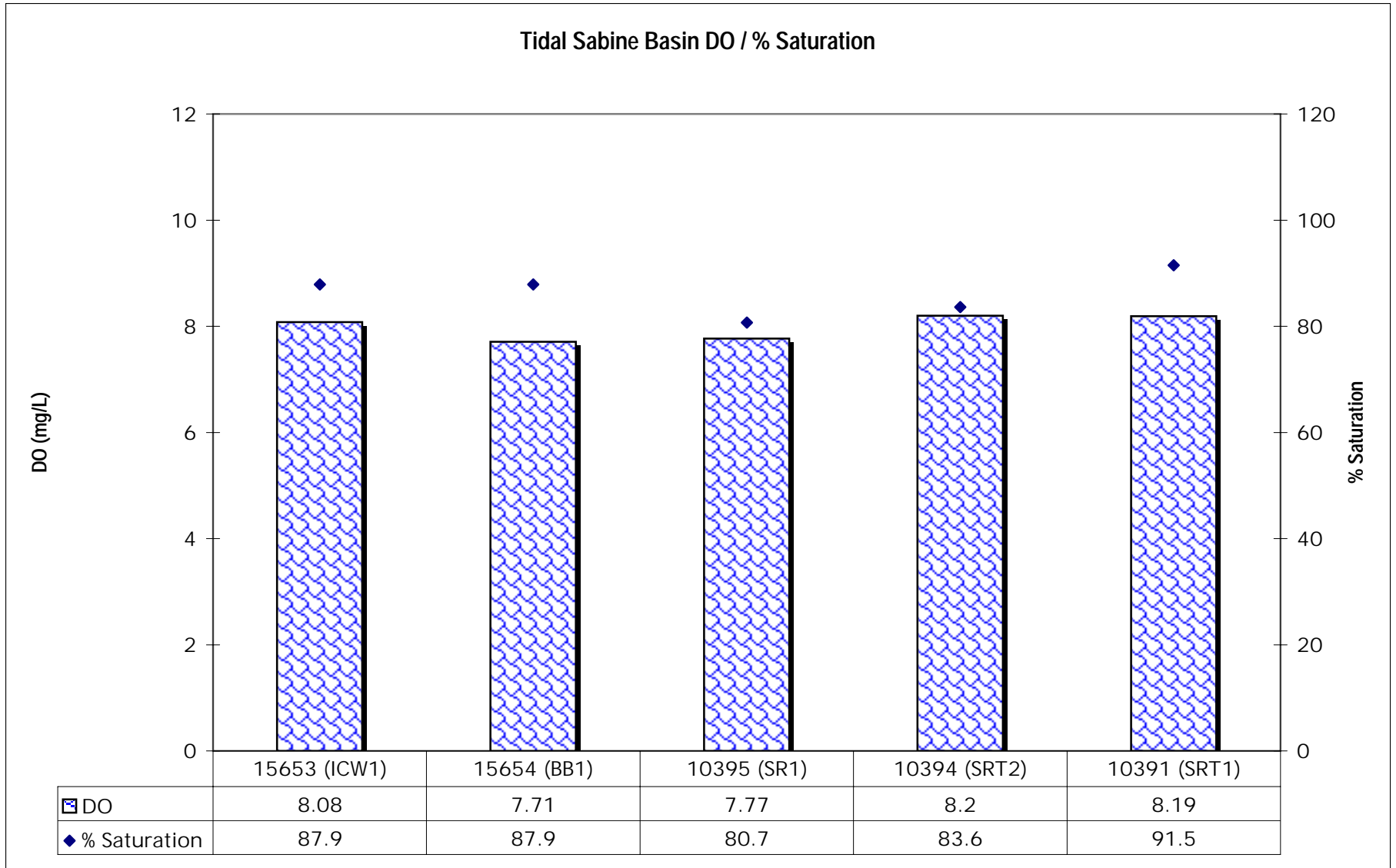
January 2000

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
1/13/00 10:00 AM	1.05	15653 (ICW1)	16.8	7.57	8.08	87.9	14030	8	1.07	6.1	10	*	*	< 0.001	< 0.02	< 0.02	*	*	*	4720	727
1/13/00 9:20 AM	1.01	15654 (BB1)	18	7.65	7.71	87.9	19900	12	0.89	7.23	118	*	*	< 0.001	< 0.02	< 0.02	*	*	*	6780	939
1/13/00 10:52 AM	1.00	10395 (SR1)	16.8	7.39	7.77	80.7	255	*	0.65	14.4	116	*	*	< 0.001	0.05	< 0.02	*	*	*	15.6	45.4
1/13/00 10:30 AM	1.00	10394 (SRT2)	16	7.68	8.2	83.6	1202	< 1	0.84	10.3	18	*	*	< 0.001	*	< 0.02	*	*	*	241	70.6
1/13/00 9:34 AM	1.00	10391 (SRT1)	16.9	7.84	8.19	91.5	20200	12	0.88	5.81	15	*	*	< 0.001	< 0.02	< 0.02	*	*	*	6700	931

*: Not sampled on this run

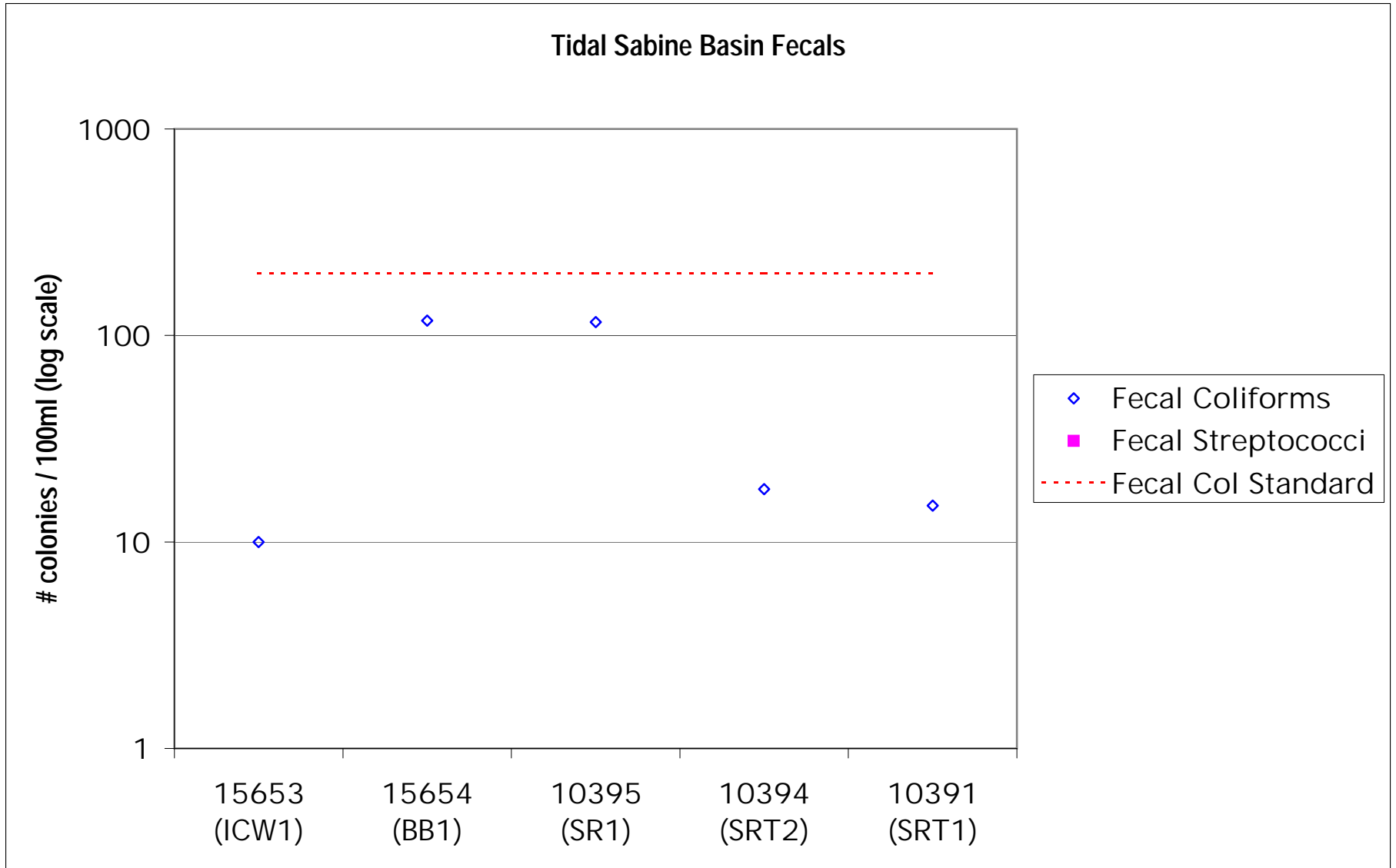
SABINE RIVER AUTHORITY OF TEXAS

January 2000



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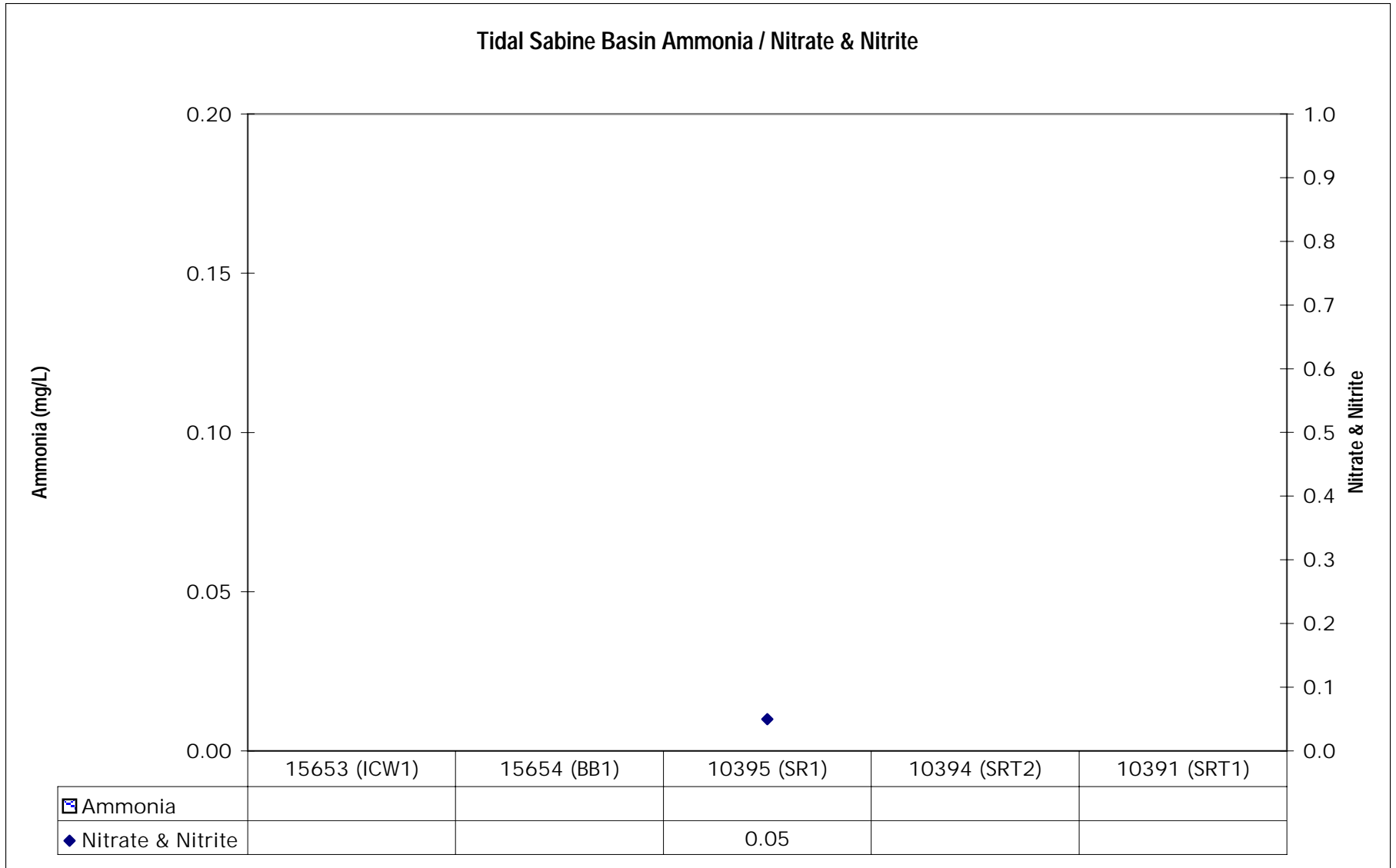
January 2000



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

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

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Tidal Profiles

January 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
1/13/00 10:00 AM	1.05	15653 (ICW1)	0.3	16.8	7.57	8.08	87.9	14030	8
			2	16.6	7.55	8	86.6	14410	8
			4	16.6	7.56	7.94	96.1	14430	8
			5.8	16.5	7.57	7.92	85.6	14770	8
1/13/00 9:20 AM	1.01	15654 (BB1)	0.3	18	7.65	7.71	87.9	19900	12
			2.5	17.7	7.67	7.82	88.8	20100	12
			5	17.7	7.65	7.81	88.6	20230	12
1/13/00 10:52 AM	1.00	10395 (SR1)	0.3	16.8	7.39	7.77	80.7	255	*
			2.5	16.7	7.43	7.74	79.7	259	*
			5.3	16.5	7.46	7.64	78.4	236	*
1/13/00 10:30 AM	1.00	10394 (SRT2)	0.3	16	7.68	8.2	83.6	1202	< 1
			3	15.9	7.68	7.71	78.6	1758	< 1
			4	14.6	7.05	6.76	70.4	15910	9
			5	14.5	7.18	5.52	58.2	19540	11
			7	14.6	7.3	5.61	60.5	24950	15
			9.8	14.6	7.34	5.91	62.6	25210	16
1/13/00 9:34 AM	1.00	10391 (SRT1)	0.3	16.9	7.84	8.19	91.5	20200	12
			2	16.8	7.84	8.03	90	20640	12
			4	15.8	7.82	7.77	86.6	24950	15
			6.5	15.6	7.81	7.72	85.9	25940	16

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

January 2000

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
01/01/2000	0.00	0.70	(3.30)	73	39	39	0.00
01/02/2000	0.00	1.40	(2.60)	75	38	64	0.00
01/03/2000	0.00	1.74	(2.26)	77	64	69	0.00
01/04/2000	0.08	0.74	(3.26)	75	45	46	0.30
01/05/2000	0.00	(0.11)	(4.11)	54	27	27	0.00
01/06/2000	0.00	1.37	(2.63)	55	26	44	0.00
01/07/2000	0.00	1.53	(2.47)	60	44	46	0.00
01/08/2000	0.00	1.78	(2.22)	68	46	53	0.00
01/09/2000	0.18	1.69	(2.31)	66	51	53	0.15
01/10/2000	0.00	1.57	(2.43)	71	48	51	0.00
01/11/2000	0.00	1.30	(2.70)	76	48	59	0.00
01/12/2000	0.00	1.18	(2.82)	78	59	66	0.00
01/13/2000	0.00	1.28	(2.72)	76	66	69	0.00
01/14/2000	0.00	0.00	(4.00)	81	47	47	0.00
01/15/2000	0.00	1.54	(2.46)	65	35	36	0.00
01/16/2000	0.00	1.30	(2.70)	71	35	55	0.00
01/17/2000	0.00	1.02	(2.98)	76	52	55	0.00
01/18/2000	0.00	1.23	(2.77)	76	55	58	0.00
01/19/2000	0.00	1.62	(2.38)	78	58	62	0.00
01/20/2000	0.00	1.41	(2.59)	79	53	53	0.00
01/21/2000	0.00	1.06	(2.94)	64	34	36	0.00
01/22/2000	0.00	1.98	(2.02)	59	35	58	0.00
01/23/2000	0.01	1.62	(2.38)	76	58	63	0.01
01/24/2000	0.01	0.32	(3.68)	76	41	41	0.00
01/25/2000	0.00	0.54	(3.46)	55	31	33	0.00
01/26/2000	0.00	0.27	(3.73)	57	33	36	0.00
01/27/2000	0.00	0.57	(3.43)	46	35	40	0.00
01/28/2000	1.01	0.77	(3.23)	49	34	35	0.95
01/29/2000	0.00	0.06	(3.94)	40	34	34	0.00
01/30/2000	0.00	0.25	(3.75)	39	33	33	0.00
01/31/2000	0.00	0.89	(3.11)	54	32	32	0.00
Avg or Tot	1.29	1.05	(2.95)	66	43	48	1.41

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 1/13/2000

SABINE RIVER AUTHORITY OF TEXAS

January 2000

