
SABINE RIVER AUTHORITY OF TEXAS

TO: INTERESTED PARTIES
FROM: WATER RESOURCES BRANCH
RE: FEBRUARY 2004 MONTHLY WATER QUALITY REPORT

This is the Sabine River Authority Water Quality Report for February 2004. Water quality sampling was performed February 9th through February 12th. Recent weather (previous seven days) in the Sabine River Basin was cool, with daytime high air temperatures (Fahrenheit) from the low 40's to the mid 50's at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the low 40's to the upper 60's. Lows ranged from the mid 20's to the low 40's at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the mid 20's to the upper 40's. The reservoir sites were mixed. During the 28 days since the January sample run, the Upper Basin received 4.2 and 4.8 inches of rainfall as recorded at Lake Tawakoni and Lake Fork, respectively. The week prior to the sample run, Lake Tawakoni recorded 1.81 inches and Lake Fork recorded 2.73 inches of rain. Toledo Bend and Orange received 9.17 and 13.25 inches, respectively, during the 28 days preceding the sample run.

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

For the February sample run, most parameter measurements at Upper Basin sites were consistent with water of high quality. Nitrate and ortho-phosphate values at LT23C were above screening levels. BS9 was below stream standards for pH. Most likely due to recent rains, the stream sites LF20, BS9, SR22, SR21, SR19, SR17, SR16, SR15, SR14, SR11, and SR10 exceeded the stream standards numeric criteria for *E. coli*.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The February monthly sampling results were indicative of water of high quality at most sites. The Lower Basin recorded close to two inches of rainfall during the sample run in addition to nearly three inches that were recorded the week prior to sampling. The level of Toledo Bend Reservoir was recorded at 170.95 feet and rising. The main step-up transformer at the powerhouse was down for repair, so powerhouse releases of 14,000 cfs were simulated at the spillway beginning at 8 AM on the day of sampling (February 11, 2004). Reservoir sites were well mixed. Station TB6CN had a pH result that was below the stream standard, and ten of the seventeen Lower Basin sites had high bacterial counts. The bacterial counts can be traced to the excessive rainfall the area received.

TIDAL SECTION OF THE SABINE BASIN BELOW MORGAN BLUFF

Most sites sampled in the tidal portion of the Sabine Basin had values that are consistent with water of high quality. The tidal stations also received a large amount of rainfall recently, with most of the area receiving nearly four inches. Most sites in the Tidal Basin were well mixed with only slight signs of stratification, and no anoxic conditions were found at any tidal station. All salinity readings were less than 1.0 ppt due to the heavy rainfall. The bacterial results from all of the tidal stations, except one, exceeded stream standards, which can also be traced to the amount of rainfall that was received.

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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SABINE RIVER AUTHORITY OF TEXAS

Monthly Water Quality Report

February 2004

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FY 2004 Fixed Monitoring Stations

Upper Sabine Basin

SW	Segment	Station	Location
7.00	0507	10440 (LT23C)	LAKE TAWAKONI NEAR WIND POINT PARK
7.00	0507	10435 (LT23D)	LAKE TAWAKONI IN KITSEE INLET NEAR WHITE POINT CAUSEWAY
7.00	0507	10434 (LT23A)	LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM
6.12	0512	10461 (LF3)	LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM 515
6.12	0512	10462 (LF4)	LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM 515
6.12	0512	10458 (LF2)	LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL
6.10	0515	10469 (LF20)	LAKE FORK CREEK AT US 80
6.02	0514	16011 (BS9)	BIG SANDY CREEK AT WHITE OAK ROAD
6.00	0506	17065 (SR22)	SABINE RIVER AT FM 17
6.00	0506	10430 (SR21)	SABINE RIVER AT US 69
6.00	0506	10429 (SR19)	SABINE RIVER AT SH 14 S. OF HAWKINS
5.00	0506	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

February 2004

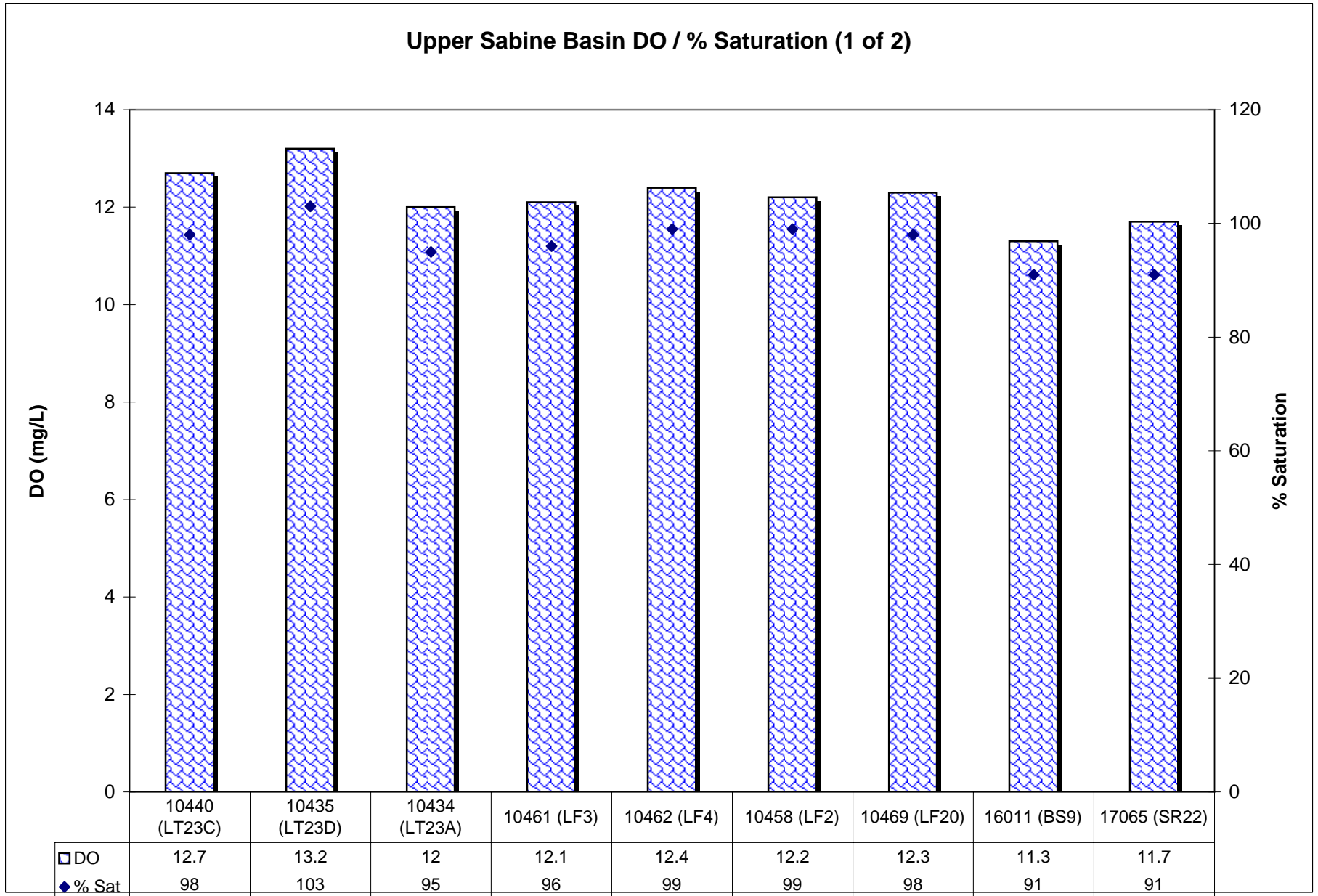
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
2/10/04 11:00 AM	7.00	10440 (LT23C)	4.54	7.55	12.7	98	212	*	0.26	51.5	75	*	< 0.02	0.54	0.18	6	*	*	< 10	15.2
2/10/04 10:14 AM	7.00	10435 (LT23D)	5.03	8.01	13.2	103	198	*	0.5	17.2	9	*	< 0.02	0.13	< 0.04	5	*	*	< 10	10.8
2/10/04 9:31 AM	7.00	10434 (LT23A)	5.71	7.58	12	95	194	*	0.96	6.39	2	*	< 0.02	0.27	< 0.04	5	*	*	< 10	< 10
2/10/04 8:22 AM	6.12	10461 (LF3)	5.83	7.23	12.1	96	164	*	1.09	4.27	29	*	< 0.02	0.05	< 0.04	5	*	*	14.2	20.8
2/10/04 8:41 AM	6.12	10462 (LF4)	5.97	7.3	12.4	99	165	*	1.44	3.05	1	*	< 0.02	0.12	< 0.04	5	*	*	13.8	20.6
2/10/04 7:50 AM	6.12	10458 (LF2)	6.32	7.35	12.2	99	166	*	1.6	2.15	4	*	< 0.02	0.21	< 0.04	6	*	*	13.6	19.7
2/10/04 1:24 PM	6.10	10469 (LF20)	5.63	6.83	12.3	98	259	*	0.34	34.3	1553	*	< 0.02	0.32	< 0.04	7	*	*	37.5	44.1
2/11/04 7:07 AM	6.02	16011 (BS9)	5.9	5.5	11.3	91	145	*	0.26	27.2	687	*	< 0.02	0.26	< 0.04	10	*	*	16.7	23.1
2/10/04 12:15 PM	6.00	17065 (SR22)	4.85	7.02	11.7	91	298	*	0.21	110	1986	*	< 0.02	0.37	0.31	10	*	*	32.7	48.4
2/10/04 12:54 PM	6.00	10430 (SR21)	5.42	6.94	12	95	318	*	0.28	72	1553	*	< 0.02	0.3	0.06	8	*	*	42.4	52.3
2/10/04 1:45 PM	6.00	10429 (SR19)	5.43	6.98	12.5	99	285	*	0.29	57.1	1986	*	< 0.02	0.27	0.07	8	*	*	39.8	46
2/11/04 7:42 AM	5.00	10428 (SR17)	5.35	6.35	12.1	96	213	*	0.24	51.8	1986	*	< 0.02	0.27	< 0.04	9	*	*	29	32.1
2/11/04 8:11 AM	5.00	10427 (SR16)	5.19	6.41	12.3	97	213	*	0.26	53.6	2419	*	< 0.02	0.24	< 0.04	9	*	*	30	30.9
2/11/04 8:32 AM	5.00	10426 (SR15)	5.07	6.46	12.4	98	224	*	0.24	58.4	2419	*	< 0.02	0.25	< 0.04	9	*	*	33.7	31.1
2/11/04 9:10 AM	5.00	10423 (SR14)	5.25	6.55	12.4	98	248	*	0.25	63.5	1986	*	< 0.02	0.38	< 0.04	9	*	*	39.5	30.2
2/11/04 10:14 AM	5.00	13628 (SR11)	5.5	6.69	12.4	98	314	*	0.26	75.2	1986	*	< 0.02	0.48	< 0.04	7	*	*	59.1	32.8
2/11/04 11:00 AM	5.00	10415 (SR10)	5.77	6.71	12.1	97	209	*	0.24	67.3	1046	*	< 0.02	0.39	< 0.04	8	20	36	28.2	26

*: Not sampled on this run

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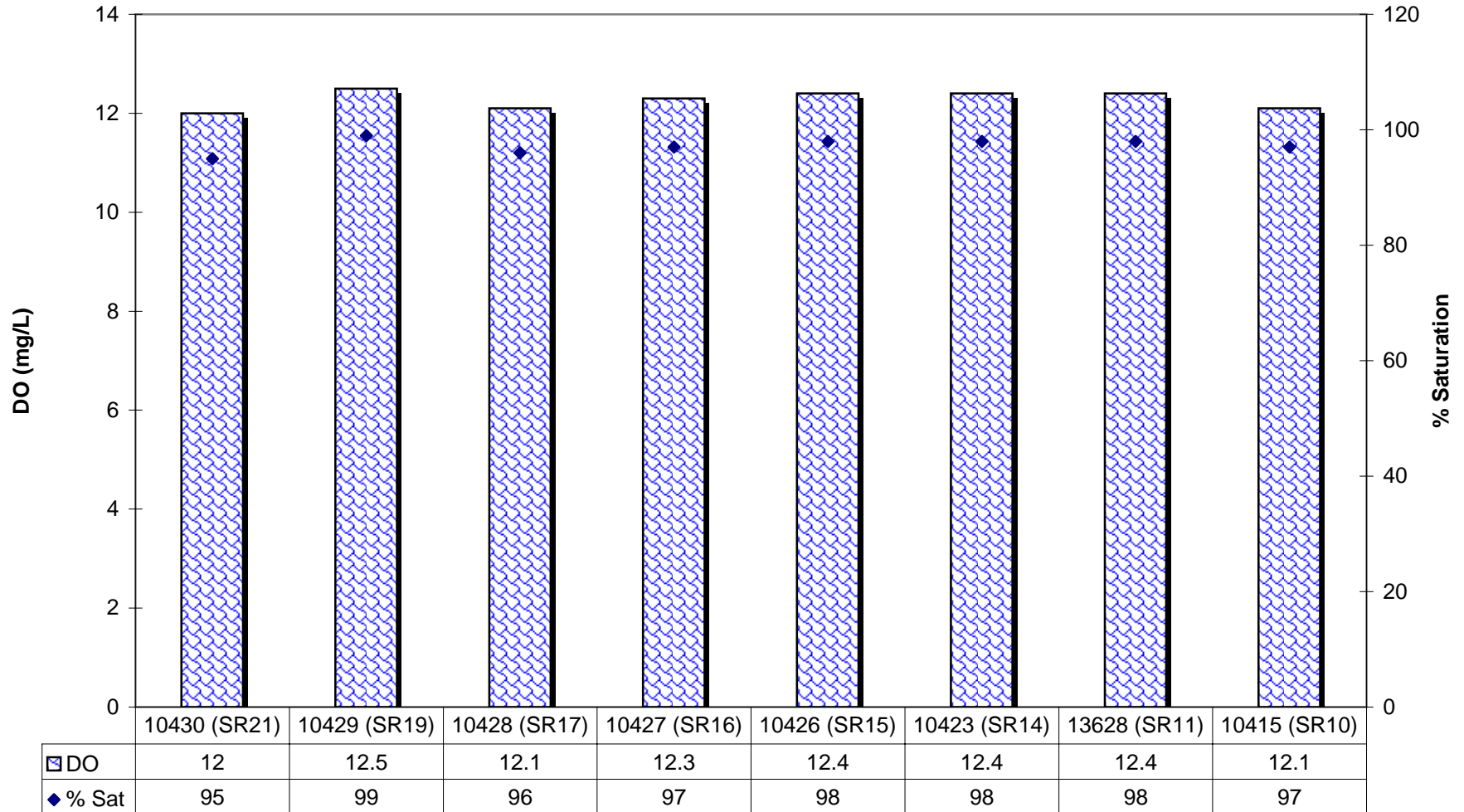
Upper Sabine Basin DO / % Saturation (1 of 2)



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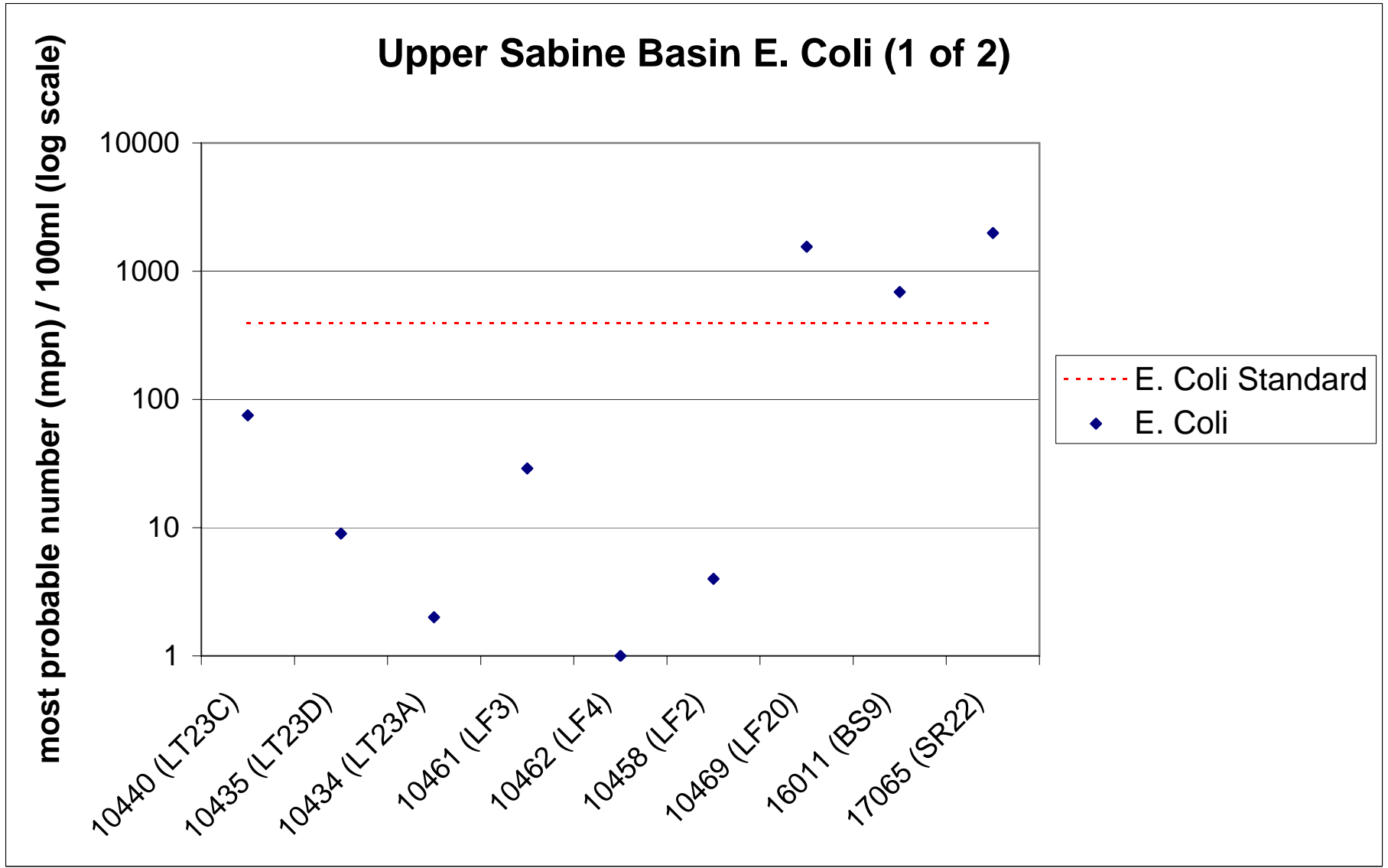
February 2004

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



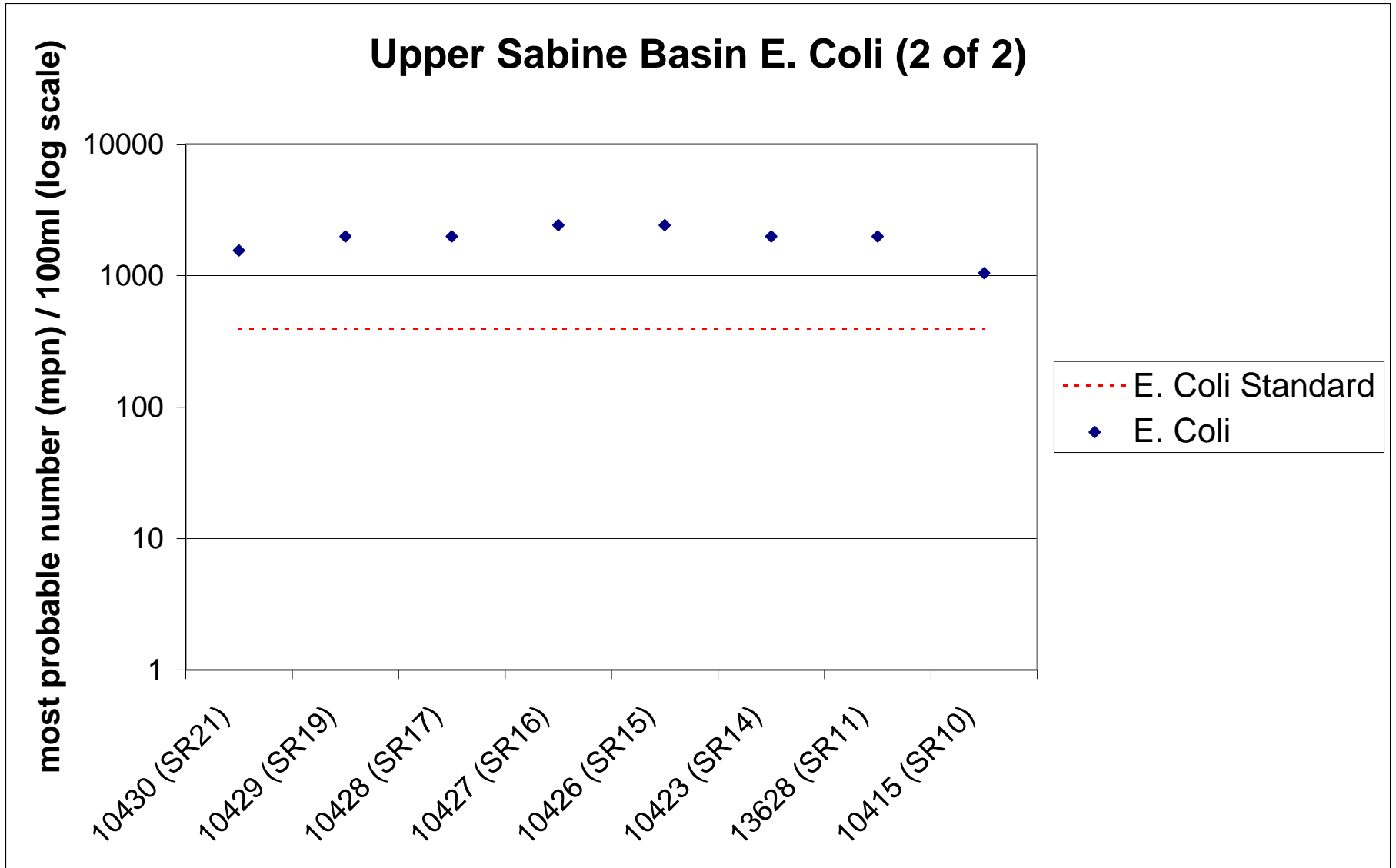
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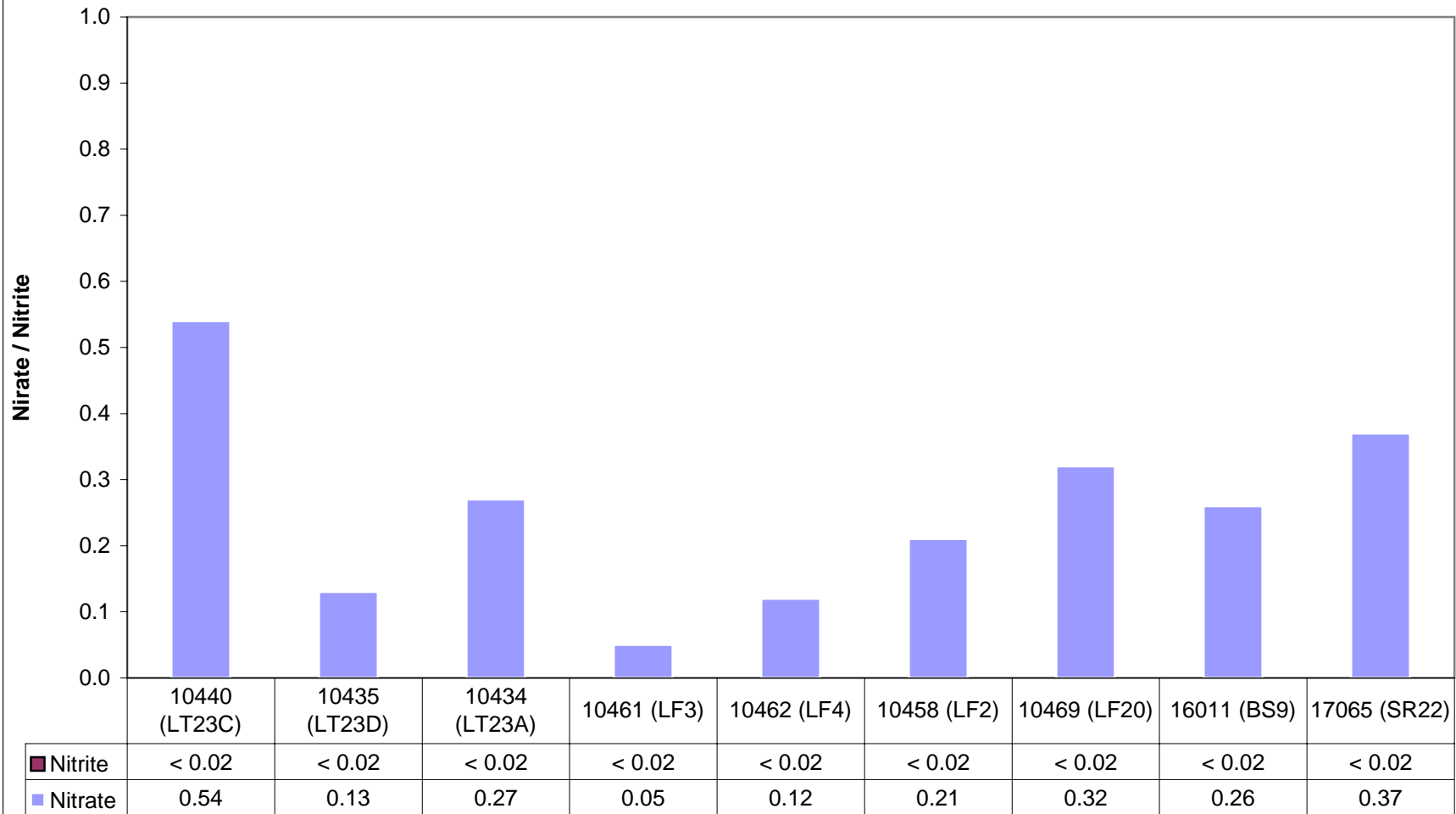
February 2004



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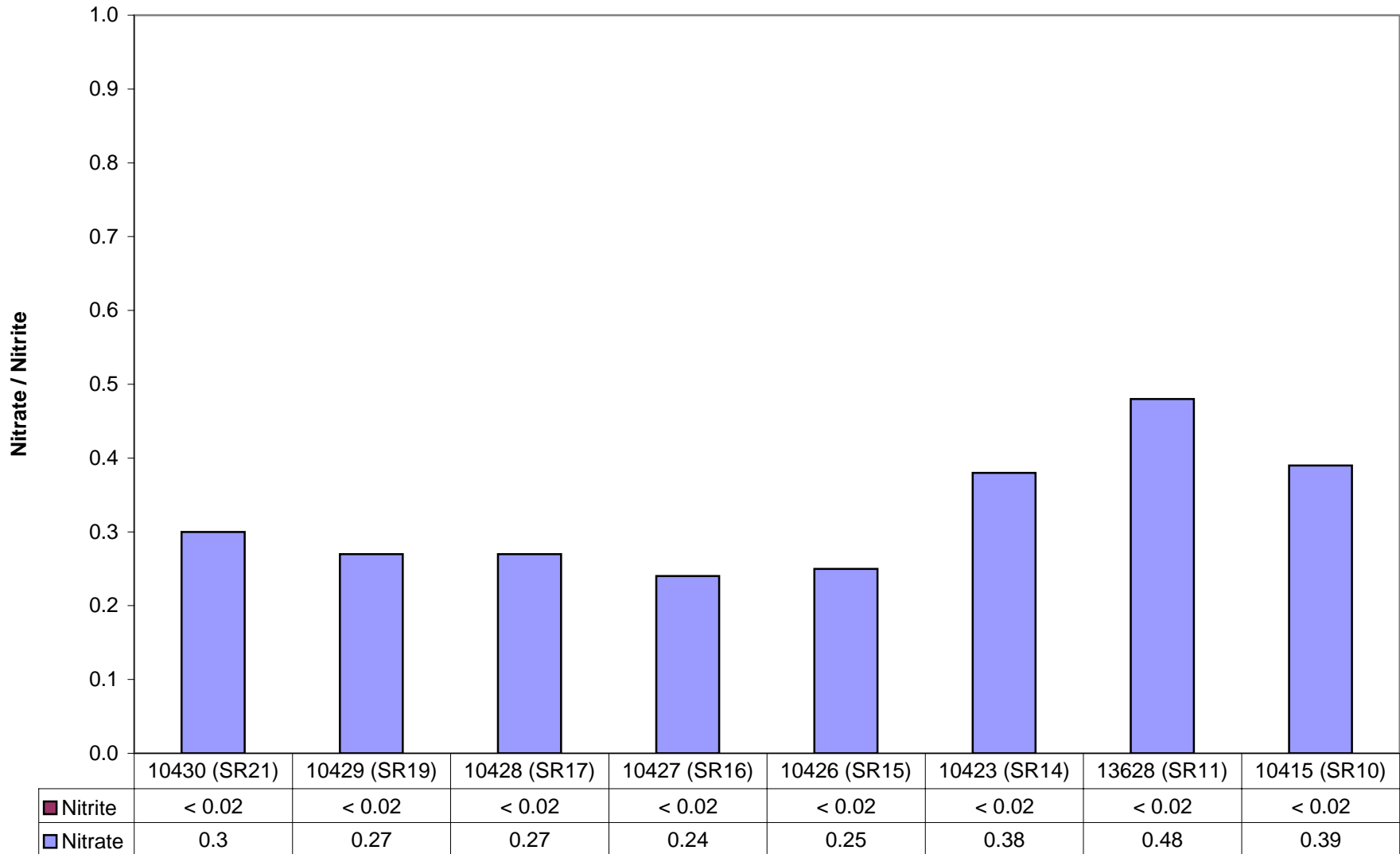
Upper Sabine Basin Nitrate / Nitrite (1 of 2)



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Lower Sabine Basin Nitrate / Nitrite (2 of 2)



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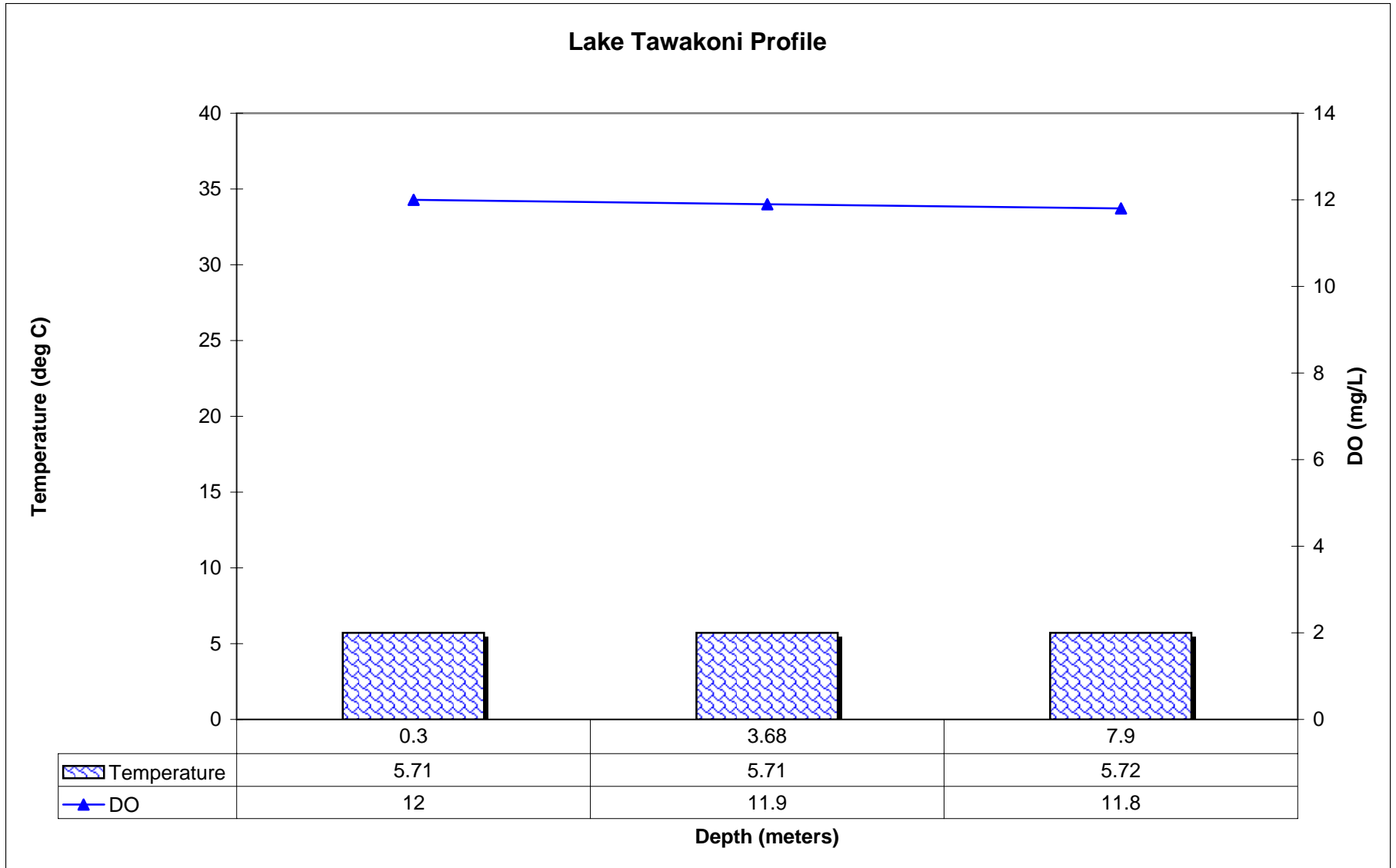
Upper Basin Profiles

February 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
2/10/04 11:00 AM	7.00	10440 (LT23C)	0.3	4.54	7.55	12.7	98	212
			2.2	4.53	7.51	12.7	98	212
			3.66	4.54	7.48	12.7	98	213
2/10/04 10:14 AM	7.00	10435 (LT23D)	0.3	5.03	8.01	13.2	103	198
			3.5	4.98	8.01	13.2	103	198
			8.14	4.96	7.95	13.2	103	199
2/10/04 9:31 AM	7.00	10434 (LT23A)	0.3	5.71	7.58	12	95	194
			3.68	5.71	7.56	11.9	95	194
			7.9	5.72	7.49	11.8	94	194
2/10/04 8:22 AM	6.12	10461 (LF3)	0.3	5.83	7.23	12.1	96	164
			4.51	5.83	7.21	12	96	164
			8.93	5.84	7.2	12	96	167
2/10/04 8:41 AM	6.12	10462 (LF4)	0.3	5.97	7.3	12.4	99	165
			5.15	5.97	7.28	12.3	99	165
			10.4	5.97	7.23	12.3	99	165
2/10/04 7:50 AM	6.12	10458 (LF2)	0.3	6.32	7.35	12.2	99	166
			7.9	6.33	7.26	12.2	99	166
			16.8	6.34	7.22	12.1	98	166

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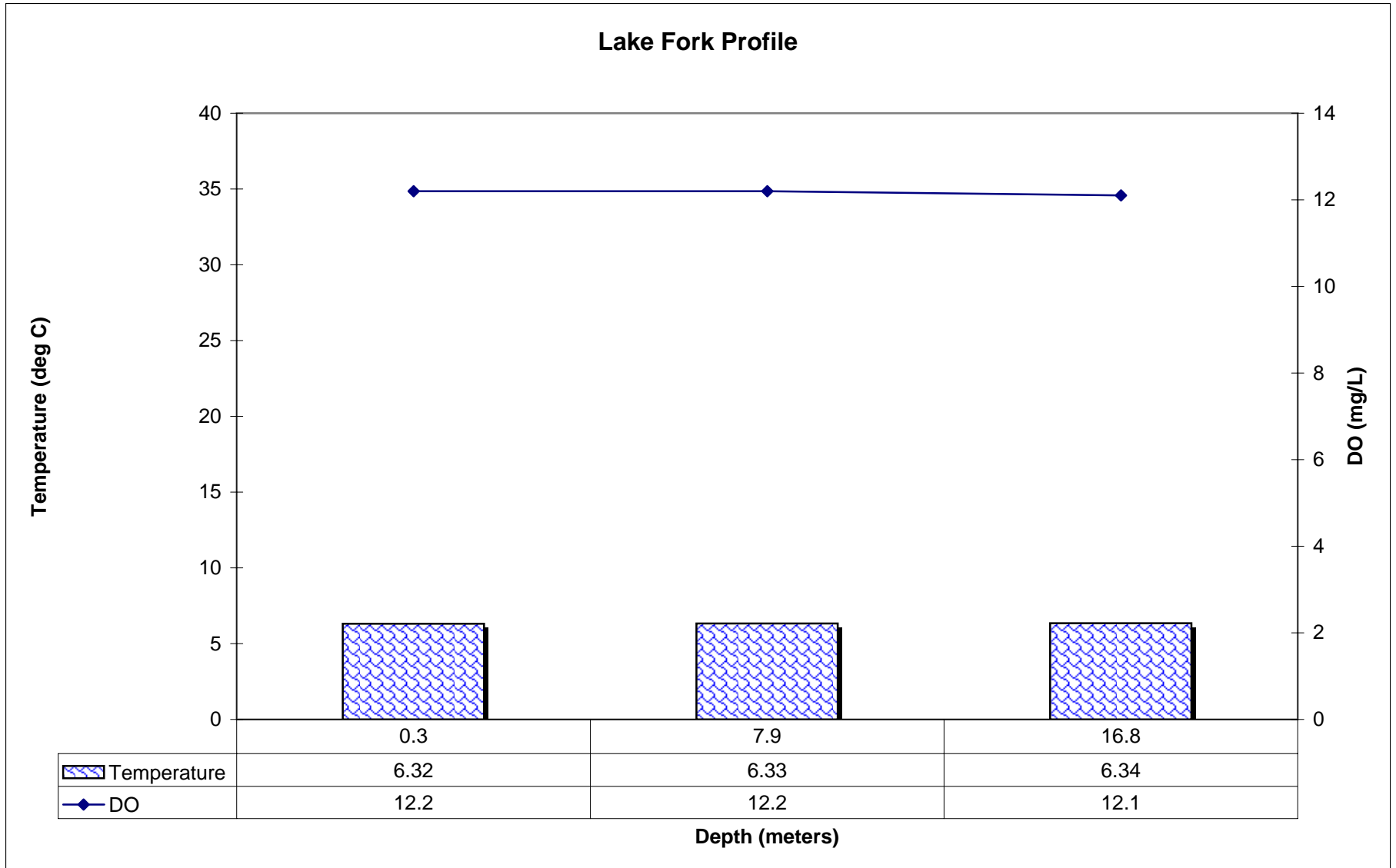
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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Lake Tawakoni Weather and Reservoir Data

February 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
2/1/2004	434.56	(2.94)	5	50	38	0.00	0.04
2/2/2004	434.62	(2.88)	5	56	37	0.19	0.07
2/3/2004	434.59	(2.91)	5	49	28	0.00	0.10
2/4/2004	434.47	(3.03)	5	52	28	0.00	0.15
2/5/2004	434.71	(2.79)	5	42	38	1.75	0.10
2/6/2004	434.87	(2.63)	5	44	38	0.00	0.02
2/7/2004	434.95	(2.55)	5	43	26	0.00	FZ
2/8/2004	434.84	(2.66)	5	48	28	0.00	FZ
2/9/2004	434.88	(2.62)	5	52	31	0.00	FZ
2/10/2004	434.92	(2.58)	5	50	41	0.06	0.02
2/11/2004	434.90	(2.60)	5	51	40	0.41	0.09
2/12/2004	435.09	(2.41)	5	42	36	1.04	NR
2/13/2004	435.12	(2.38)	5	43	27	0.00	FZ
2/14/2004	435.20	(2.30)	5	40	28	0.05	FZ
2/15/2004	435.19	(2.31)	5	36	32	0.10	0.00
2/16/2004	435.17	(2.33)	5	50	30	0.00	0.16
2/17/2004	435.26	(2.24)	5	61	35	0.05	0.12
2/18/2004	435.22	(2.28)	5	59	34	0.00	0.10
2/19/2004	435.20	(2.30)	5	65	37	0.00	0.15
2/20/2004	435.25	(2.25)	5	72	48	0.00	0.23
2/21/2004	435.24	(2.26)	5	64	39	0.00	0.28
2/22/2004	435.24	(2.26)	5	65	40	0.00	0.15
2/23/2004	435.24	(2.26)	5	69	43	0.00	0.25
2/24/2004	435.28	(2.22)	5	64	53	0.37	0.08
2/25/2004	435.44	(2.06)	5	53	38	1.20	NR
2/26/2004	435.63	(1.87)	5	50	34	0.00	0.04
2/27/2004	435.73	(1.77)	5	57	34	0.00	0.12
2/28/2004	435.74	(1.76)	5	63	37	0.00	0.15
2/29/2004	435.69	(1.81)	5	59	42	0.00	0.10
Avg or Tot	435.11	(2.39)	5	53	36	5.22	2.52

	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.				

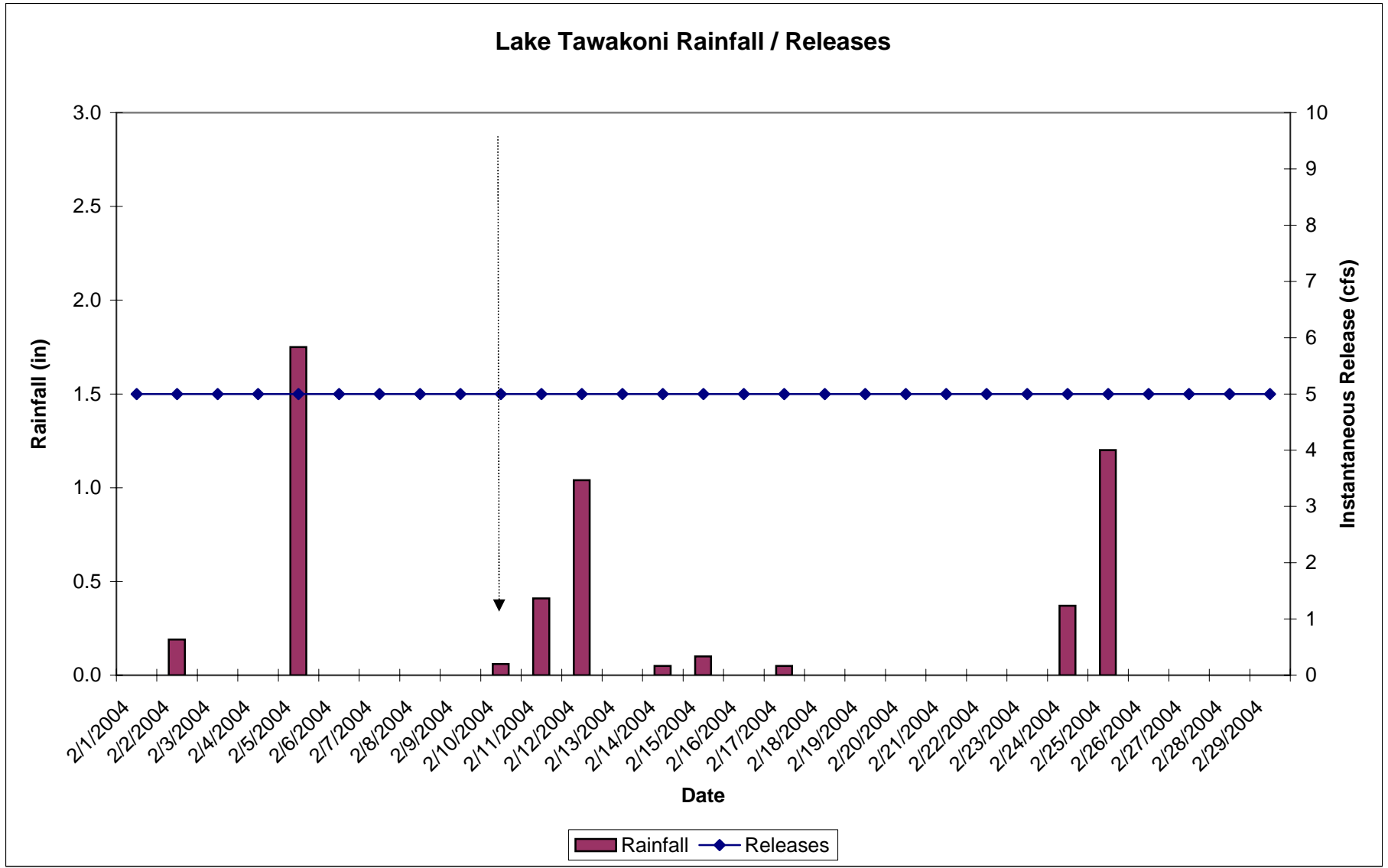
TOP: Top of Pool = 437.5 Feet M.S.L.

NR: No Reading
FZ: Gage Frozen

Lake Tawakoni Sampled on 2/10/2004

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Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

February 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
2/1/2004	400.49	(2.51)	8	8	50	36	0.00	0.13
2/2/2004	400.53	(2.47)	8	8	58	38	0.20	0.04
2/3/2004	400.50	(2.50)	8	8	50	28	0.00	0.09
2/4/2004	400.46	(2.54)	8	8	56	28	0.00	0.16
2/5/2004	400.71	(2.29)	8	8	43	36	2.71	0.00
2/6/2004	400.76	(2.24)	8	8	46	36	0.00	0.01
2/7/2004	400.76	(2.24)	8	8	46	26	0.00	0.07
2/8/2004	400.75	(2.25)	8	8	48	26	0.00	0.01
2/9/2004	400.73	(2.27)	8	8	52	28	0.00	0.27
2/10/2004	400.75	(2.25)	8	8	53	40	0.02	0.00
2/11/2004	400.81	(2.19)	8	8	56	39	0.56	0.04
2/12/2004	400.96	(2.04)	8	8	44	35	1.10	0.02
2/13/2004	400.95	(2.05)	8	8	46	28	0.00	FZ
2/14/2004	401.00	(2.00)	8	8	40	26	0.10	FZ
2/15/2004	401.01	(1.99)	8	8	37	32	0.17	0.00
2/16/2004	401.00	(2.00)	8	8	54	30	0.00	0.10
2/17/2004	401.02	(1.98)	8	8	63	31	0.18	0.11
2/18/2004	401.02	(1.98)	8	8	62	32	0.00	0.11
2/19/2004	401.01	(1.99)	8	8	69	35	0.00	0.16
2/20/2004	401.03	(1.97)	8	8	73	47	0.00	0.26
2/21/2004	401.03	(1.97)	8	8	68	40	0.00	0.14
2/22/2004	401.02	(1.98)	8	8	69	35	0.00	0.20
2/23/2004	401.02	(1.98)	8	8	70	39	0.00	0.19
2/24/2004	401.05	(1.95)	8	8	66	52	0.09	0.04
2/25/2004	401.17	(1.83)	8	8	56	38	1.10	0.01
2/26/2004	401.25	(1.75)	8	8	50	34	0.07	0.04
2/27/2004	401.26	(1.74)	8	8	60	32	0.00	0.10
2/28/2004	401.26	(1.74)	8	8	66	34	0.00	0.21
2/29/2004	401.26	(1.74)	8	8	62	39	0.00	0.10
Avg or Tot	400.92	(2.08)	8	8	56	34	6.30	2.61

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

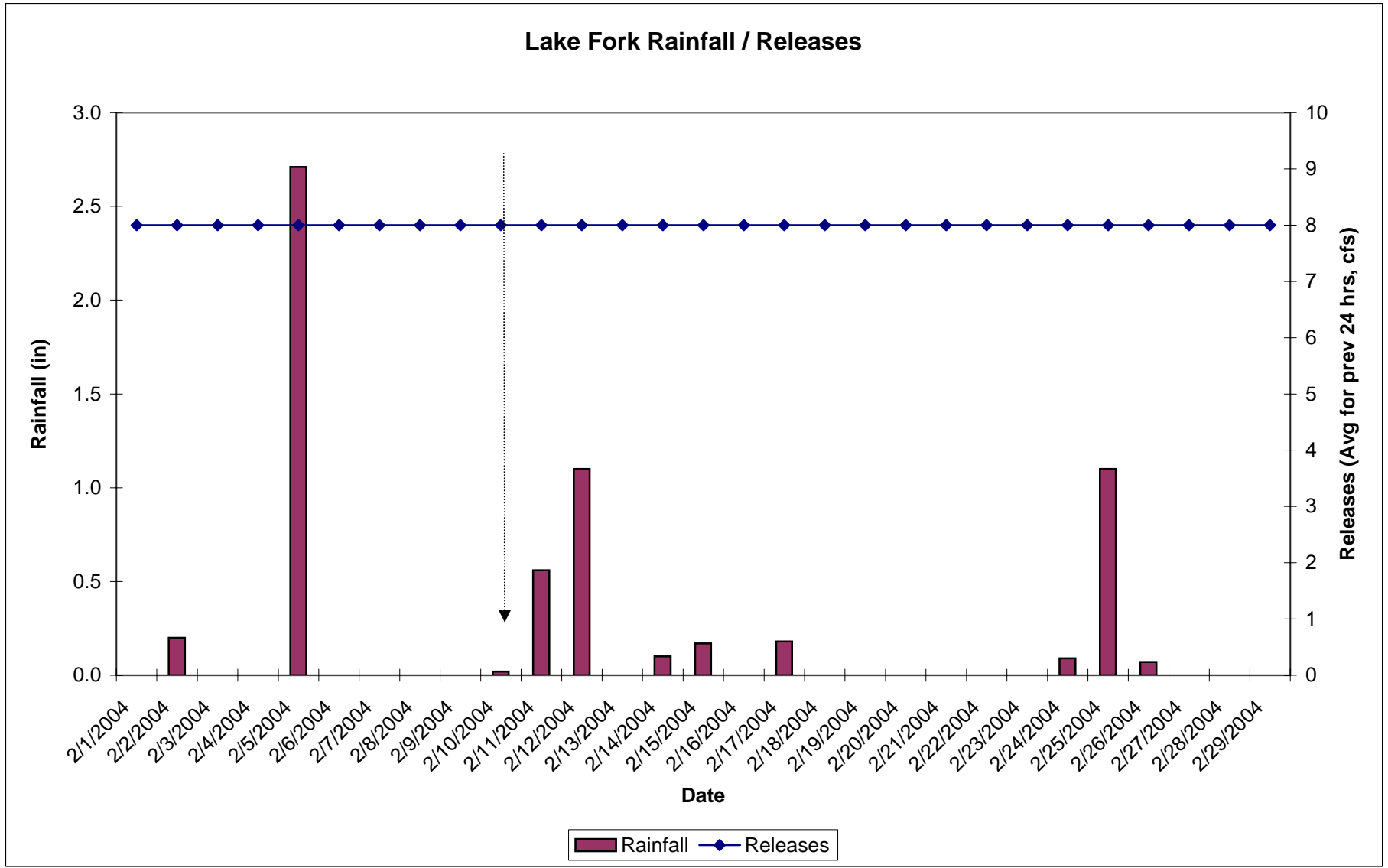
TOP: Top of Pool = 403 Feet M.S.L.

FZ: Gage Frozen

Lake Fork Sampled on 2/10/2004

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FY 2004 Fixed Monitoring Stations

Lower Sabine Basin

SW	Segment	Station	Location
4.00	0504	10403 (TB8)	TOLEDO BEND RESERVOIR AT US 84 NEAR LOGANSPO RT LA
4.00	0504	18051 (TB7A)	TOLEDO BEND RESERVOIR AT RECREATION SITE 1
4.00	0504	18052 (TB6R)	TOLEDO BEND RAGTOWN
4.00	0504	18053 (TB6LN)	TOLEDO BEND RESERVOIR SAN MIGUEL ARM BOAT LANE
4.00	0504	15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH AT FM 276
4.00	0504	15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU AT LOUISIANA SH 191 IN SABINE PARISH LOUISIANA WEST OF MANY
4.00	0504	10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21 NORTHEAST OF MILAM
4.00	0504	18054 (TB6Q)	TOLEDO BEND RESERVOIR IN NEGREET BAYOU
4.00	0504	10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY NEAR FM 3121 BRIDGE
4.00	0504	10407 (TB6CN)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE AT SH 87
4.00	0504	10404 (TB6A)	TOLEDO BEND RESERVOIR MAIN LAKE ABOVE THE DAM AT THE OLD RIVER CHANNEL
3.03	0503	10340 (BA4)	ANACOCO BAYOU AT LOUISIANA HWY 111 CROSSING SOUTHWEST OF KNIGHT LA
3.00	0503	10401 (TB6S)	SABINE RIVER BELOW TOLEDO BEND RESERVOIR AT RIGHT ABUTMENT OF SPILLWAY FOR DAM
3.00	0503	10399 (SR5)	SABINE RIVER AT SH 63 EAST OF BURKEVILLE TX.
3.00	0503	10398 (SR3)	SABINE RIVER AT US 190 EAST OF BON WIER TX.
2.05	0513	10465 (BCC1)	BIG COW CREEK AT FM 1416 SOUTH OF BON WIER
2.00	0502	10397 (SR2)	SABINE RIVER AT SH 12 NORTH OF DEWEYVILLE TX.

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Lower Basin Report

February 2004

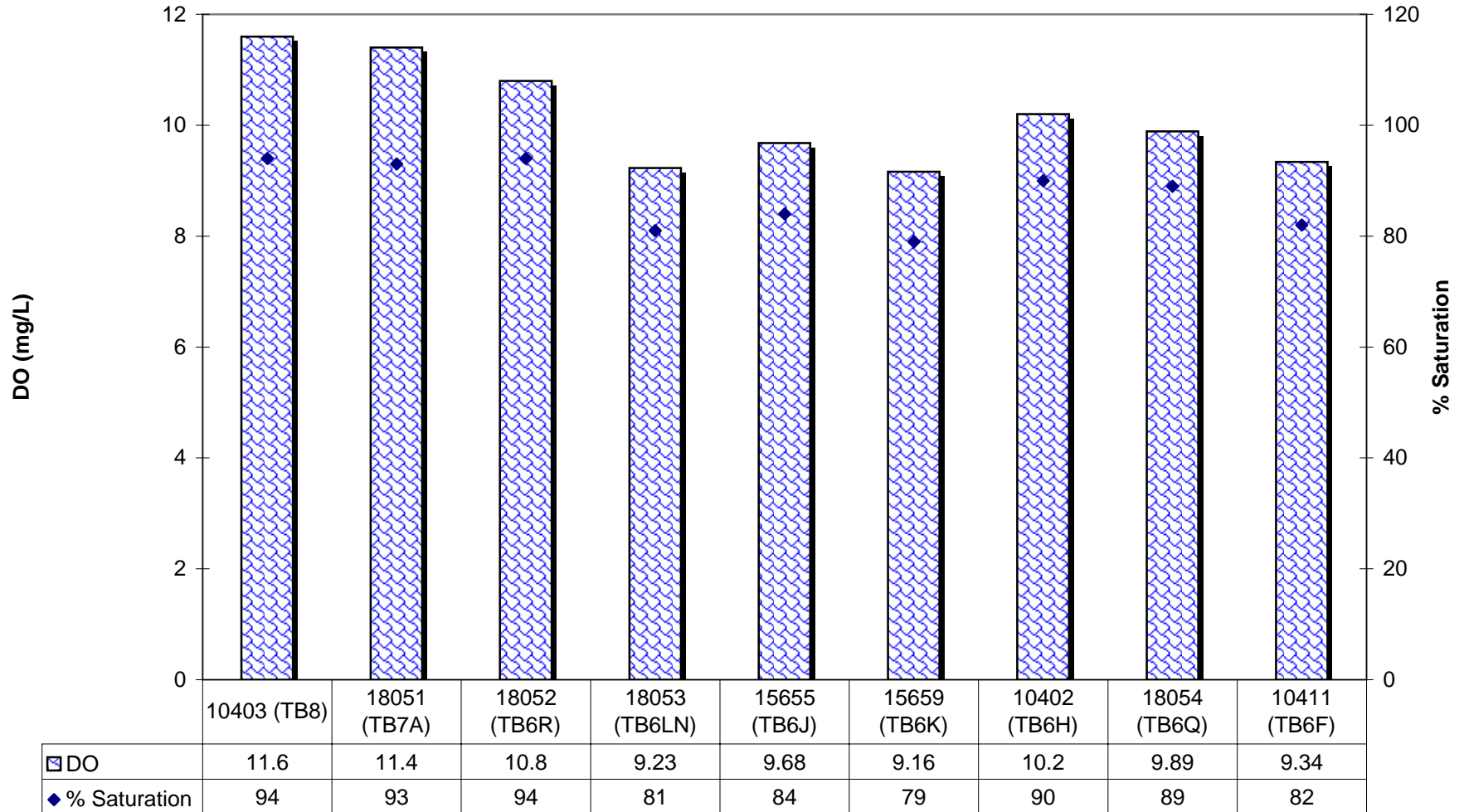
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
2/11/04 11:39 AM	4.00	10403 (TB8)	6.47	6.69	11.6	94	226	*	0.26	45.2	770	*	< 0.02	0.15	0.05	11	*	*	38.9	20.4
2/11/04 12:10 PM	4.00	18051 (TB7A)	6.59	6.61	11.4	93	183	*	0.76	45.4	1120	*	< 0.02	0.12	0.07	11	*	*	28.3	17.4
2/9/04 10:00 AM	4.00	18052 (TB6R)	9.37	7.65	10.8	94	187	*	1.07	3.73	< 1	*	< 0.02	< 0.02	< 0.04	7	*	*	21.8	18.2
2/9/04 12:10 PM	4.00	18053 (TB6LN)	9.61	6.76	9.23	81	127	*	0.44	22.4	31	*	< 0.02	0.09	0.06	11	*	*	14.3	15.5
2/10/04 10:30 AM	4.00	15655 (TB6J)	9.22	6.62	9.68	84	121	*	0.25	56.7	1046	*	< 0.02	0.15	0.07	10	*	*	< 10	24.6
2/10/04 12:00 PM	4.00	15659 (TB6K)	8.98	6.49	9.16	79	86	*	0.18	53.5	727	*	< 0.02	0.12	0.06	10	*	*	< 10	13.4
2/10/04 11:30 AM	4.00	10402 (TB6H)	9.7	7.28	10.2	90	165	*	1.65	2.68	< 1	*	< 0.02	0.07	< 0.04	6	*	*	17.2	17.1
2/9/04 1:05 PM	4.00	18054 (TB6Q)	10.5	7.27	9.89	89	148	*	1.42	3.32	7	*	< 0.02	0.08	< 0.04	5	*	*	15.4	16.8
2/10/04 11:00 AM	4.00	10411 (TB6F)	9.68	6.46	9.34	82	66	*	0.2	74.2	1120	*	< 0.02	0.16	< 0.04	8	*	*	< 10	< 10
2/10/04 9:50 AM	4.00	10407 (TB6CN)	9.45	5.95	8.9	78	41	*	0.25	43.6	461	*	< 0.02	0.04	< 0.04	12	*	*	< 10	< 10
2/9/04 2:05 PM	4.00	10404 (TB6A)	10.9	7.5	10.3	94	142	*	1.39	2.67	3	*	< 0.02	0.05	< 0.04	5	*	*	14.5	15
2/11/04 12:37 PM	3.03	10340 (BA4)	11.1	6.83	10.1	91	82	*	0.24	58	1203	*	< 0.02	0.19	< 0.04	11	*	*	< 10	< 10
2/11/04 10:35 AM	3.00	10401 (TB6S)	10.6	7.73	11.6	104	162	*	*	7.14	10	*	< 0.02	0.1	< 0.04	5	*	*	14.3	14.7
2/11/04 12:05 PM	3.00	10399 (SR5)	10.6	6.52	10.4	94	81	*	0.15	109	980	*	< 0.02	0.17	< 0.04	10	*	*	< 10	< 10
2/11/04 1:00 PM	3.00	10398 (SR3)	11	6.68	10.1	91	71	*	0.23	64.8	548	*	< 0.02	0.05	< 0.04	10	*	*	< 10	< 10
2/11/04 9:05 AM	2.05	10465 (BCC1)	11.4	6.07	9.91	98	55	*	0.23	37	1414	*	< 0.02	0.06	< 0.04	11	*	*	< 10	< 10
2/11/04 8:30 AM	2.00	10397 (SR2)	11.1	6.28	9.04	82	72	*	0.2	40.8	190	*	< 0.02	0.05	< 0.04	11	*	*	< 10	< 10

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

February 2004

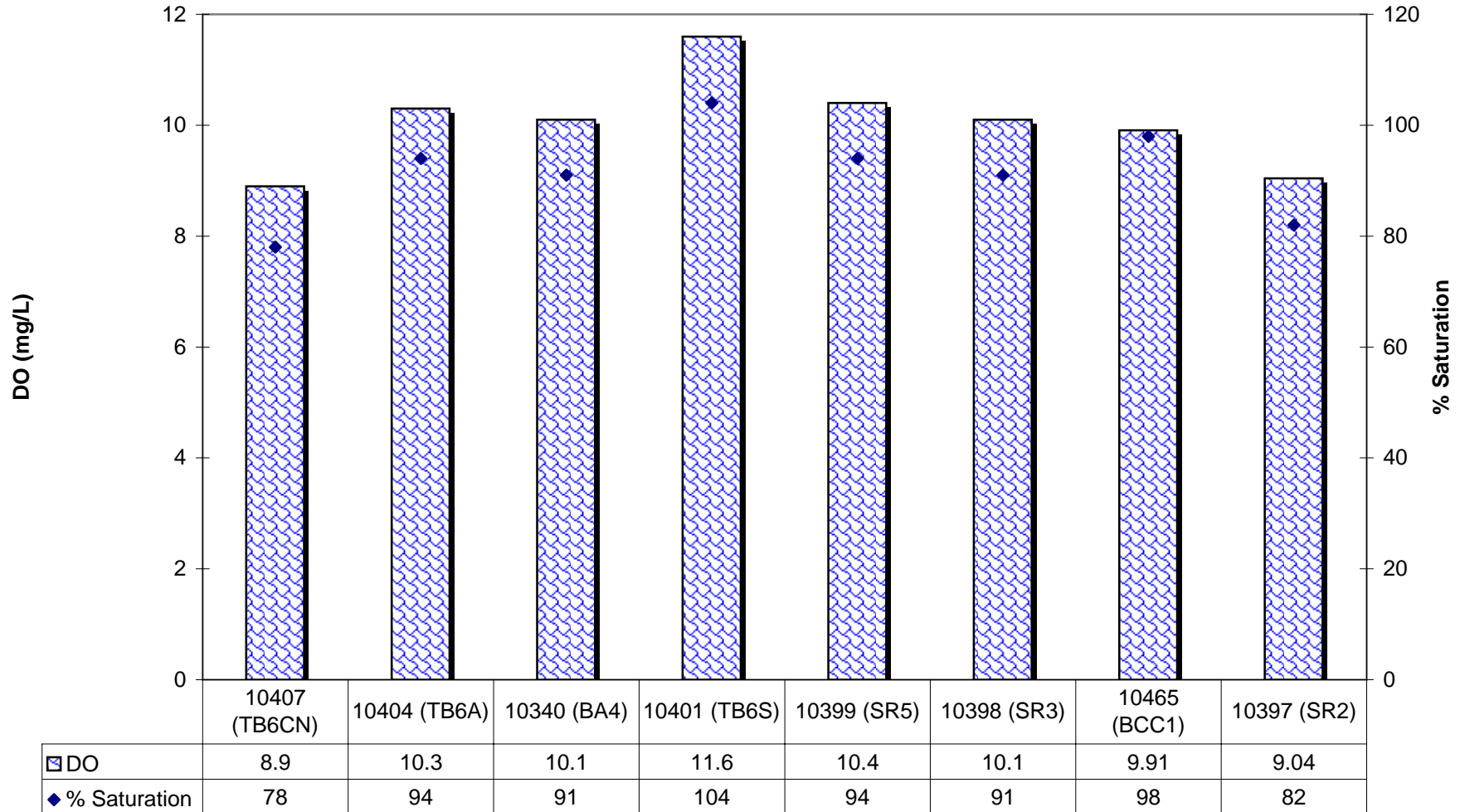
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

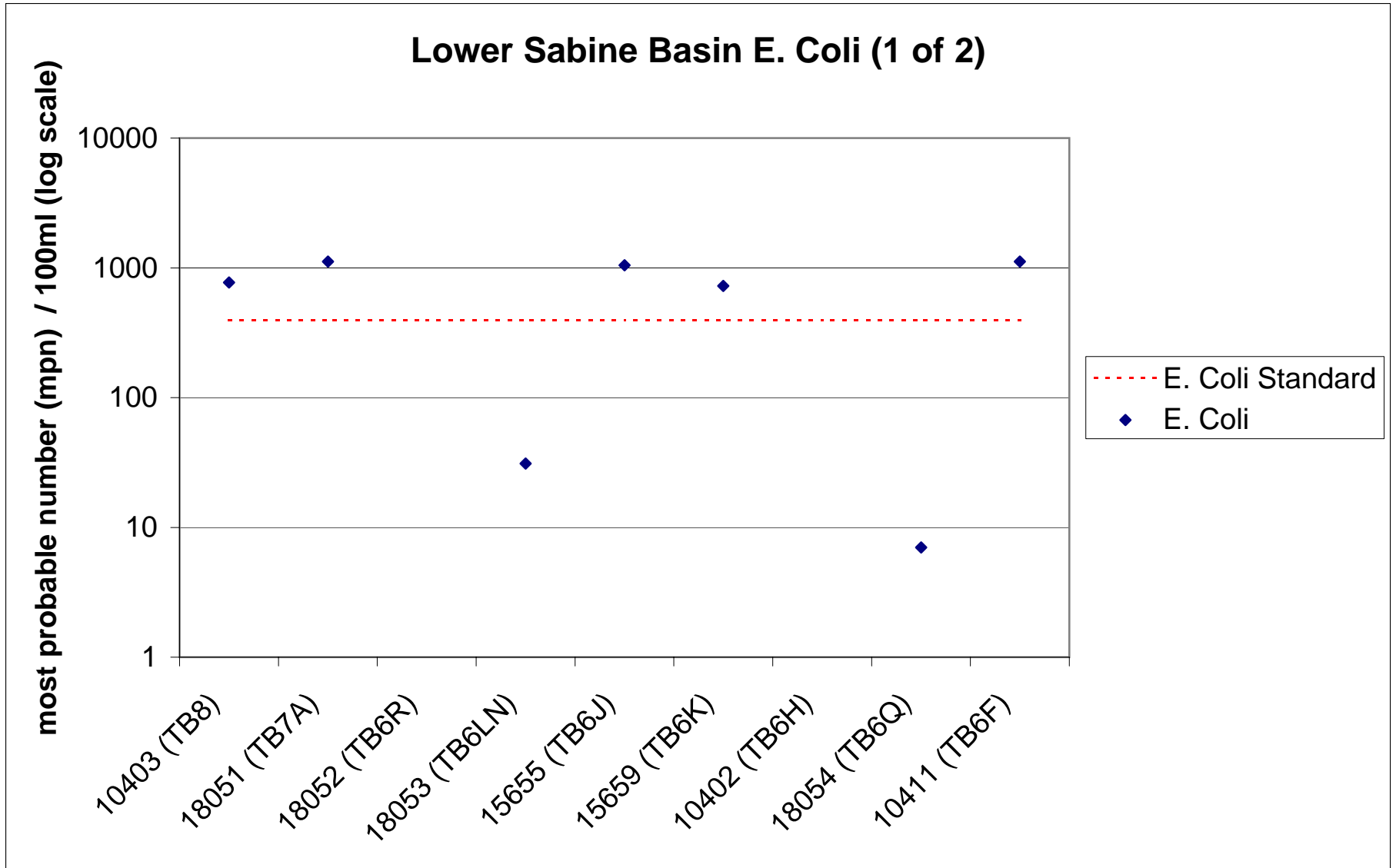
February 2004

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



SABINE RIVER AUTHORITY OF TEXAS

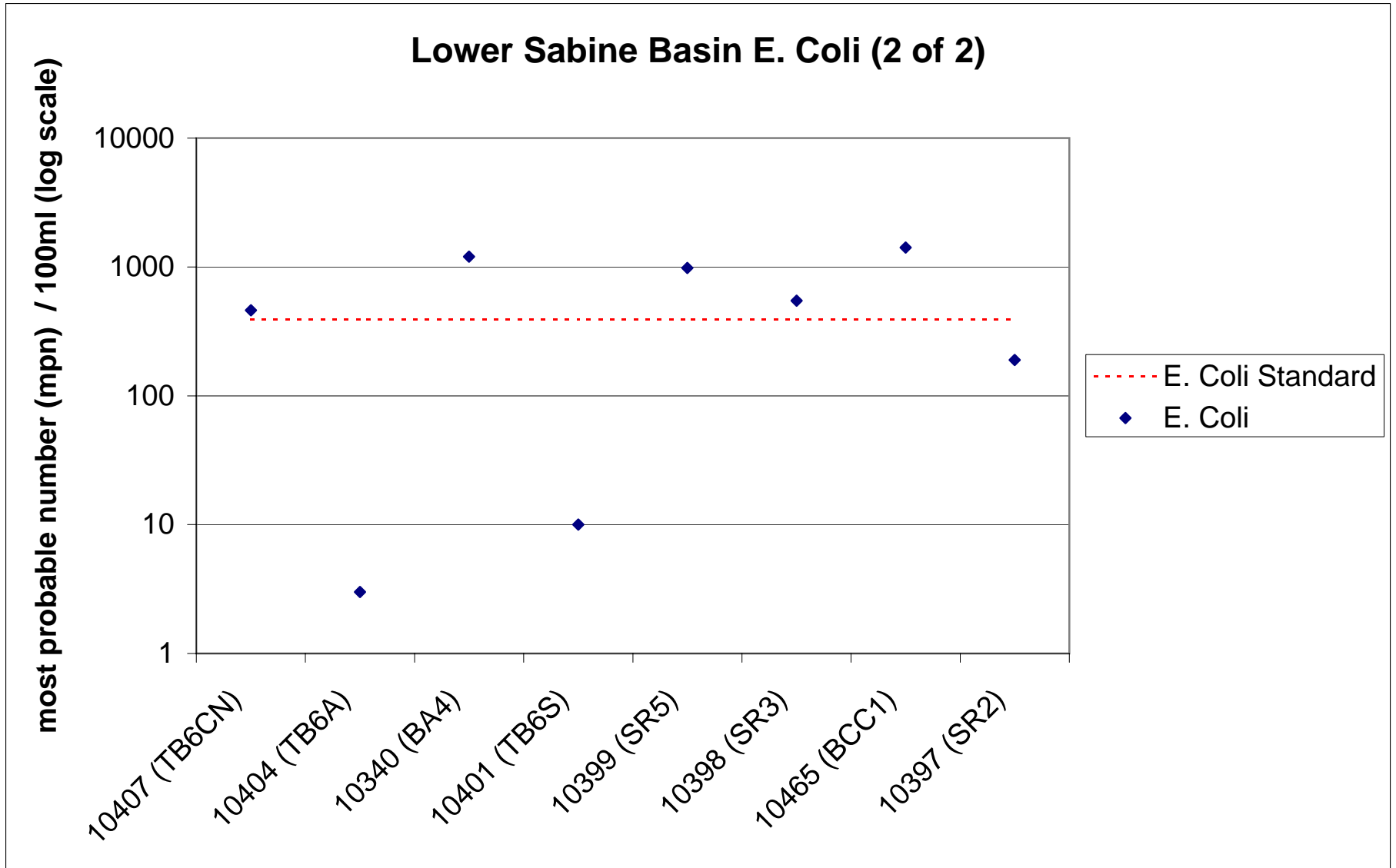
February 2004



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

SABINE RIVER AUTHORITY OF TEXAS

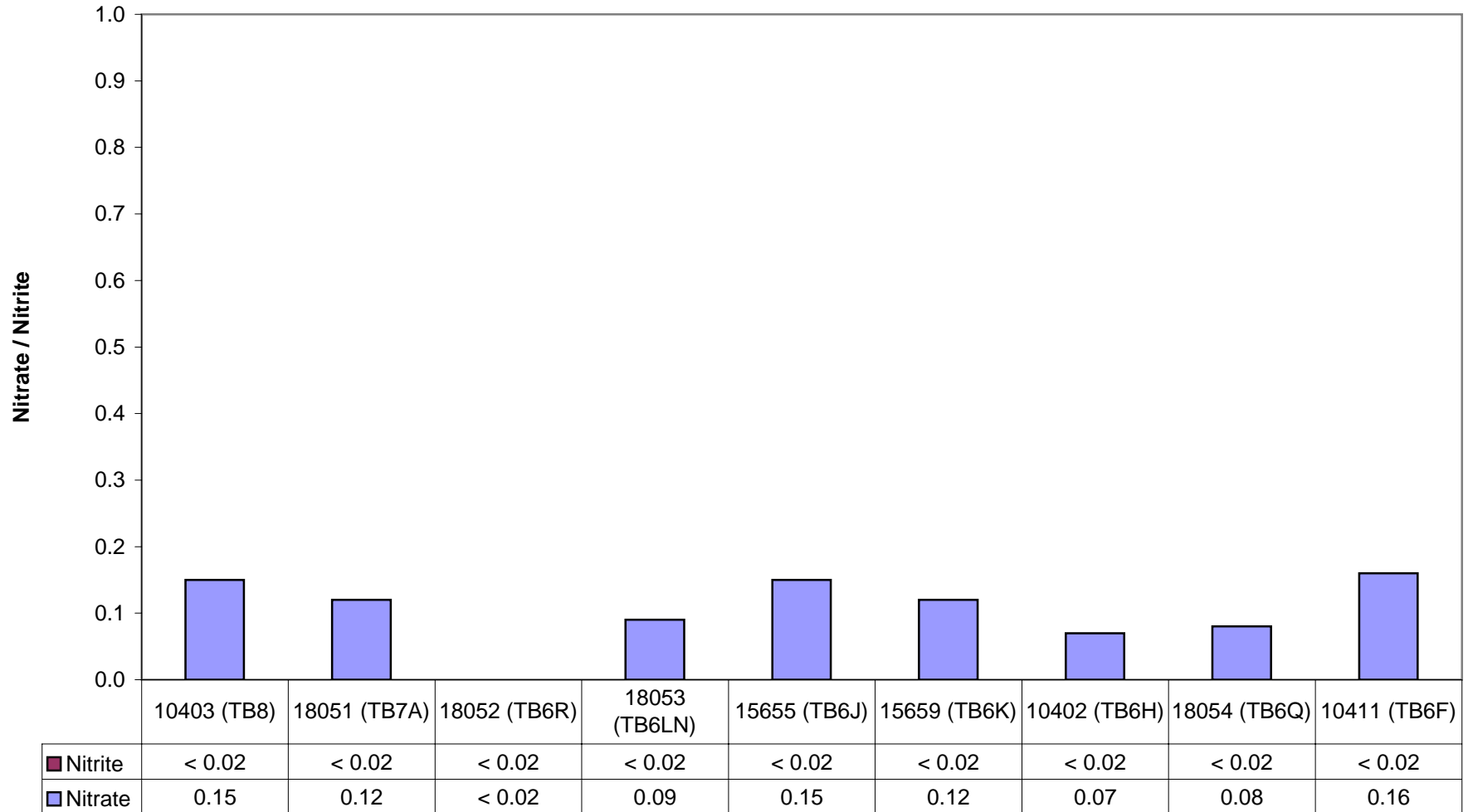
February 2004



SABINE RIVER AUTHORITY OF TEXAS

February 2004

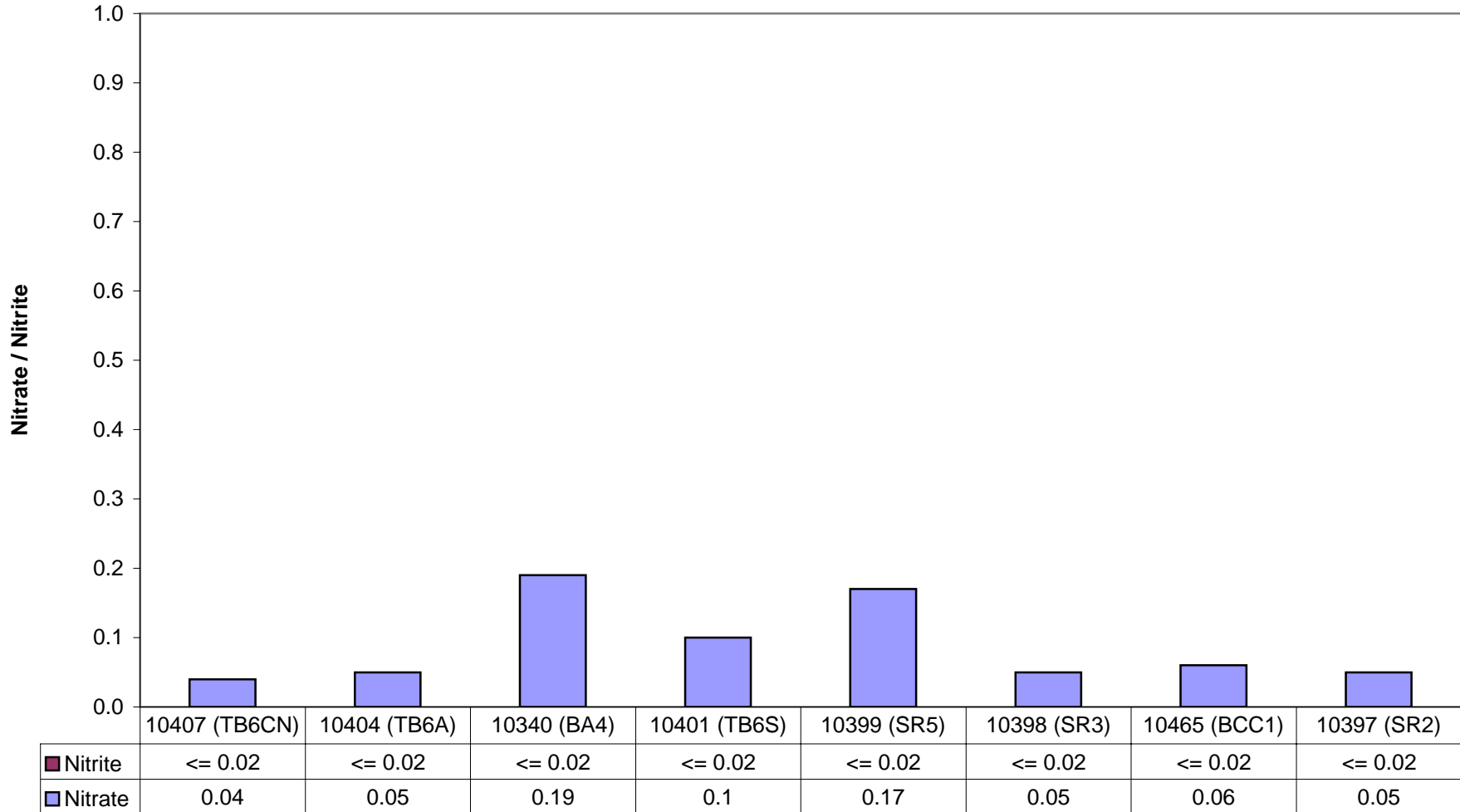
Lower Sabine Basin Nitrate / Nitrite (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

February 2004

Lower Sabine Basin Nitrate / Nitrite (2 of 2)



SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

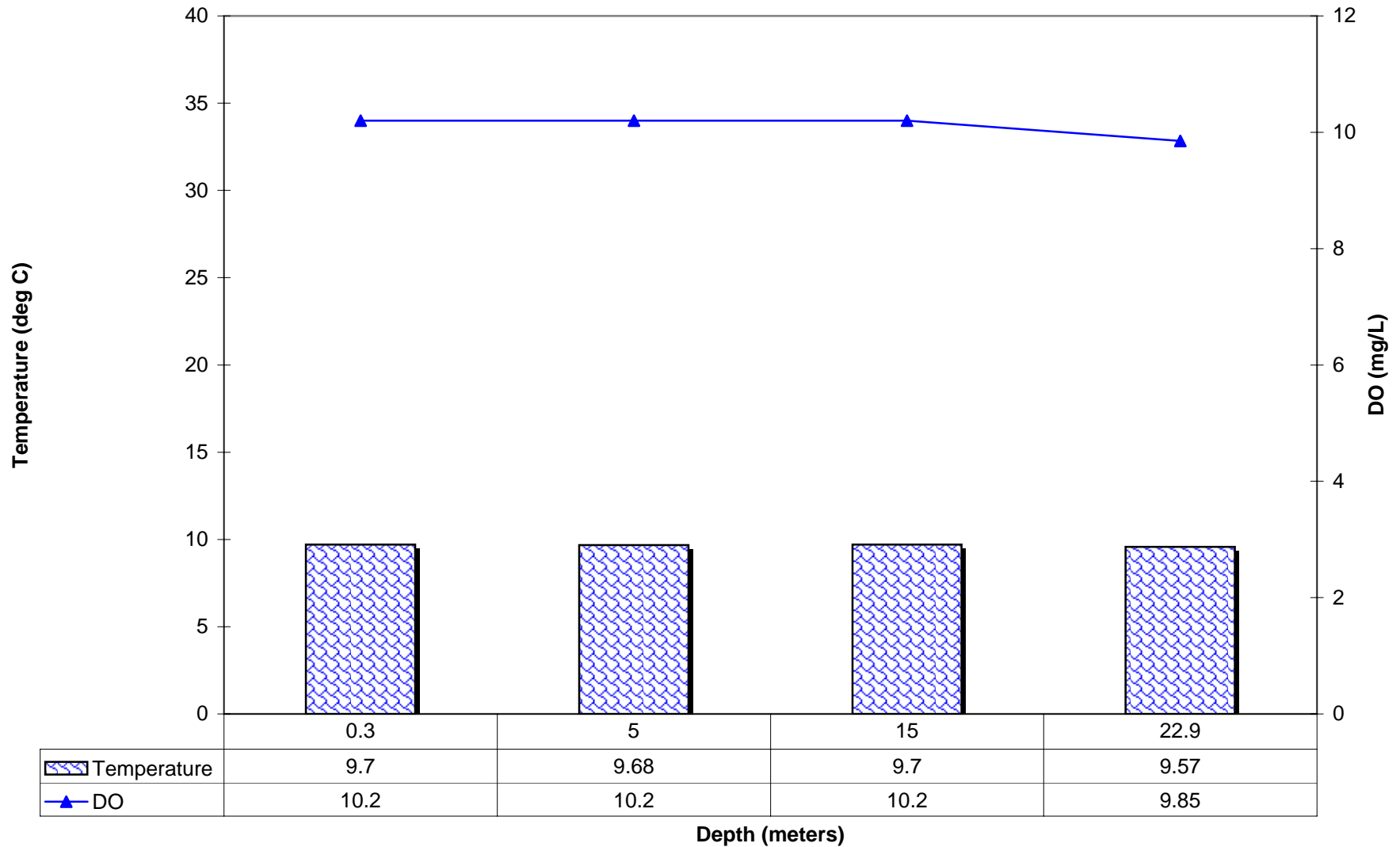
February 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
2/11/04 11:39 AM	4.00	10403 (TB8)	0.3	6.47	6.69	11.6	94	226
			5.5	6.48	6.64	11.6	94	227
			10.9	6.48	6.64	11.5	93	226
2/11/04 12:10 PM	4.00	18051 (TB7A)	0.3	6.59	6.61	11.4	93	183
			3	6.6	6.6	11.4	93	183
			6.4	6.59	6.57	11.4	93	183
2/9/04 10:00 AM	4.00	18052 (TB6R)	0.3	9.37	7.65	10.8	94	187
			3	9.37	7.61	10.9	95	190
			6	9.38	7.6	11.1	96	190
2/9/04 12:10 PM	4.00	18053 (TB6LN)	0.3	9.61	6.76	9.23	81	127
			3.5	9.37	6.7	9.17	80	119
			6.9	8.96	6.58	9.2	79	108
2/10/04 10:30 AM	4.00	15655 (TB6J)	0.3	9.22	6.62	9.68	84	121
			2.5	9.17	6.59	9.76	85	124
			4.6	9.2	6.56	11.4	99	127
2/10/04 12:00 PM	4.00	15659 (TB6K)	0.3	8.98	6.49	9.16	79	86
			4.9	8.91	6.49	9.49	82	87
			9	8.86	6.54	9.95	85	87
2/10/04 11:30 AM	4.00	10402 (TB6H)	0.3	9.7	7.28	10.2	90	165
			5	9.68	7.3	10.2	90	164
			15	9.7	7.32	10.2	89	164
			22.9	9.57	7.25	9.85	86	162
2/9/04 1:05 PM	4.00	18054 (TB6Q)	0.3	10.5	7.27	9.89	89	148
			5.1	10.3	7.24	9.83	88	155
			9.2	10.3	7.21	9.77	87	152
2/10/04 11:00 AM	4.00	10411 (TB6F)	0.3	9.68	6.46	9.34	82	66
			5.3	9.61	6.39	9.24	81	68
2/10/04 9:50 AM	4.00	10407 (TB6CN)	0.3	9.45	5.95	8.9	78	41
			3.5	9.47	5.94	8.99	78	44
			7	9.38	5.79	8.6	75	37
2/9/04 2:05 PM	4.00	10404 (TB6A)	0.3	10.9	7.5	10.3	94	142
			4.8	10.5	7.43	10.1	90	144
			12.7	10.4	7.42	10.1	90	144
			19.9	10.4	7.42	10.1	90	145
			27.3	10.4	7.4	10.1	90	145

SABINE RIVER AUTHORITY OF TEXAS

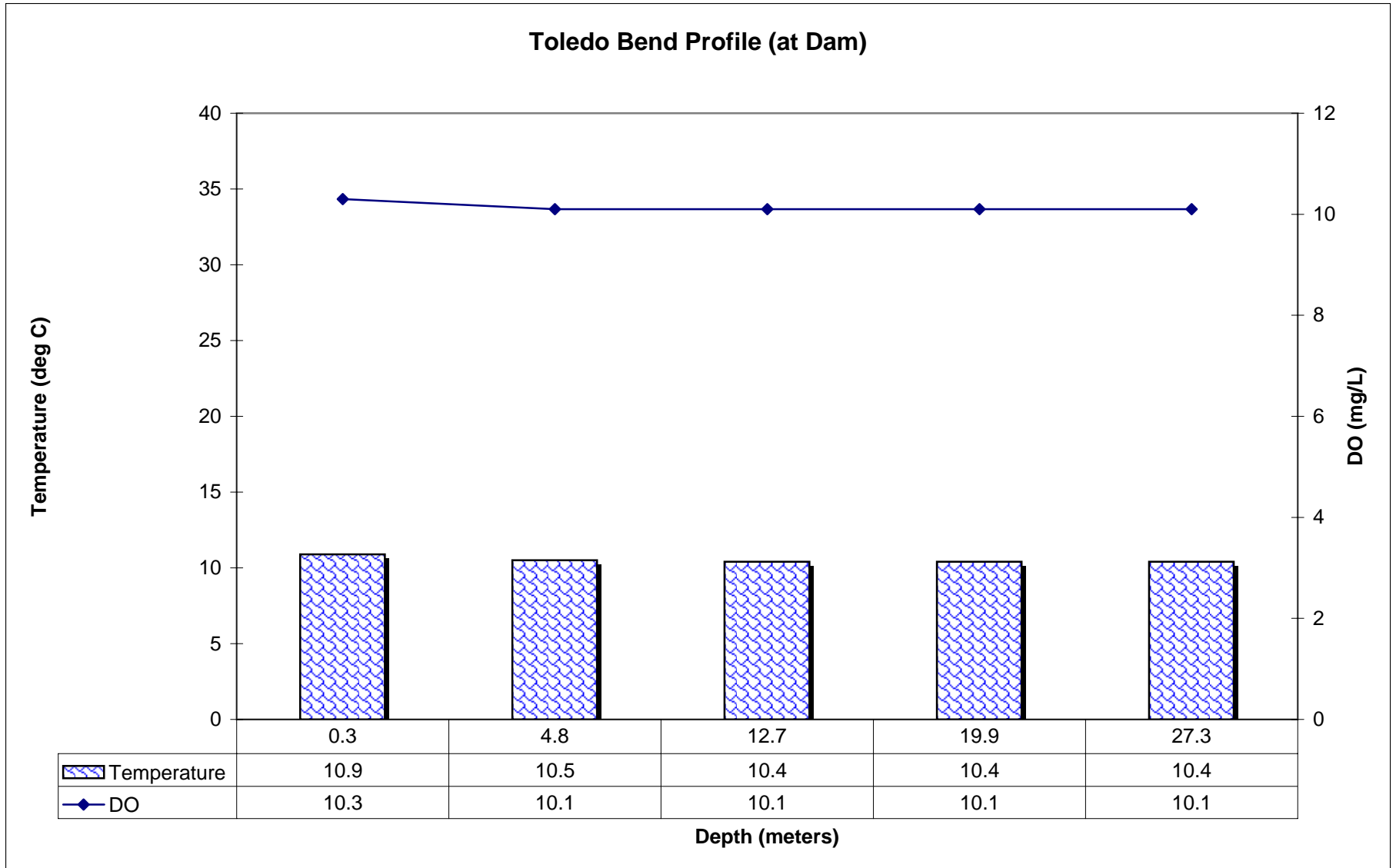
February 2004

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

February 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

February 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
2/1/2004	169.12	(2.88)	52	36	0.02	0.03	144	286	144
2/2/2004	169.22	(2.78)	68	52	0.20	NR	144	286	144
2/3/2004	169.32	(2.68)	55	35	0.02	0.18	144	286	144
2/4/2004	169.28	(2.72)	57	34	0.00	0.08	144	286	144
2/5/2004	169.86	(2.14)	54	42	2.66	NR	144	286	144
2/6/2004	170.26	(1.74)	52	42	0.27	0.38	144	286	144
2/7/2004	170.40	(1.60)	52	30	0.00	0.44	144	286	144
2/8/2004	170.50	(1.50)	52	28	0.00	0.12	144	286	144
2/9/2004	170.55	(1.45)	54	42	0.00	0.11	144	286	144
2/10/2004	170.95	(1.05)	66	49	1.00	0.16	144	286	144
2/11/2004	171.23	(0.77)	49	46	0.78	NR	9,439	18,722	144
2/12/2004	171.86	(0.14)	50	41	2.05	NR	14,144	28,054	14,144
2/13/2004	171.97	(0.03)	46	38	0.00	0.07	14,144	28,054	14,144
2/14/2004	172.12	0.12	45	40	0.05	0.12	14,144	28,054	14,144
2/15/2004	172.37	0.37	43	40	0.35	NR	14,144	28,054	14,144
2/16/2004	172.37	0.37	55	33	0.00	0.07	14,144	28,054	14,144
2/17/2004	172.50	0.50	58	33	0.03	0.16	14,144	28,054	14,144
2/18/2004	172.40	0.40	60	34	0.00	0.08	14,144	28,054	14,144
2/19/2004	172.30	0.30	60	34	0.00	0.14	14,144	28,054	14,144
2/20/2004	172.32	0.32	70	39	0.00	0.12	14,144	28,054	14,144
2/21/2004	172.30	0.30	66	43	0.00	0.24	14,144	28,054	14,144
2/22/2004	172.20	0.20	65	40	0.00	0.17	14,144	28,054	14,144
2/23/2004	172.19	0.19	73	41	0.75	0.17	14,144	28,054	14,144
2/24/2004	172.28	0.28	60	53	0.05	0.03	14,144	28,054	14,144
2/25/2004	172.53	0.53	58	46	1.12	NR	17,075	33,868	14,144
2/26/2004	172.65	0.65	47	40	0.04	0.30	22,144	43,922	22,144
2/27/2004	172.58	0.58	56	31	0.00	0.13	22,144	43,922	22,144
2/28/2004	172.51	0.51	66	31	0.00	0.29	22,144	43,922	22,144
2/29/2004	172.29	0.29	63	30	0.00	0.35	21,909	43,456	22,144
Avg or Tot	171.46	(0.54)	57	39	9.39	3.94	10,351	595,374	

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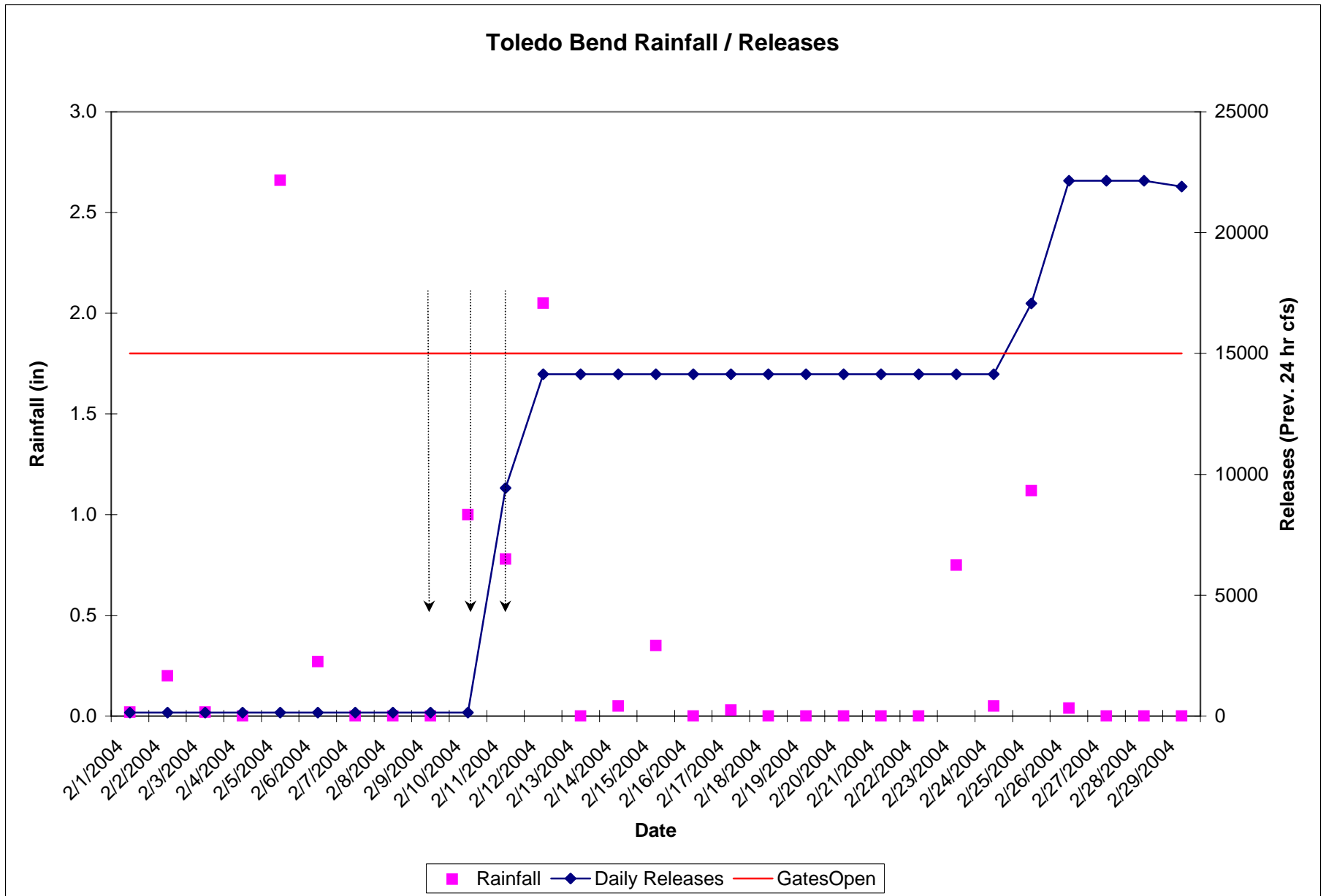
TOP: Top of Pool = 172 Feet M.S.L.

NR: No Reading

Toledo Bend Sampled on 2/9-11/2004

SABINE RIVER AUTHORITY OF TEXAS

February 2004



Toledo Bend sampled on 2/9-11/2004

Flood gates open when flow greater than approximately 15,000 cfs

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

February 2004

Date	<i>Rainfall</i>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow</i>
2/1/2004	0.00	14.64	(23.36)	1,050
2/2/2004	0.21	13.24	(24.76)	422
2/3/2004	0.00	12.76	(25.24)	269
2/4/2004	0.00	12.55	(25.45)	212
2/5/2004	1.19	13.31	(24.69)	448
2/6/2004	0.15	18.63	(19.37)	4,240
2/7/2004	0.00	17.69	(20.31)	3,310
2/8/2004	0.00	16.01	(21.99)	1,920
2/9/2004	0.00	13.44	(24.56)	496
2/10/2004	1.43	13.43	(24.57)	492
2/11/2004	0.38	16.58	(21.42)	2,350
2/12/2004	1.66	27.68	(10.32)	18,300
2/13/2004	0.00	27.08	(10.92)	17,100
2/14/2004	0.23	26.02	(11.98)	15,100
2/15/2004	0.27	25.67	(12.33)	14,400
2/16/2004	0.00	25.20	(12.80)	13,600
2/17/2004	0.00	24.61	(13.39)	12,500
2/18/2004	0.00	24.44	(13.56)	12,200
2/19/2004	0.01	24.35	(13.65)	12,100
2/20/2004	0.00	24.34	(13.66)	12,100
2/21/2004	0.00	24.26	(13.74)	11,900
2/22/2004	0.00	24.22	(13.78)	11,900
2/23/2004	0.78	24.39	(13.61)	12,100
2/24/2004	0.06	24.66	(13.34)	12,600
2/25/2004	0.70	25.22	(12.78)	13,600
2/26/2004	0.00	28.63	(9.37)	20,300
2/27/2004	0.00	29.39	(8.61)	21,900
2/28/2004	0.00	29.10	(8.90)	21,300
2/29/2004	0.00	28.96	(9.04)	21,000
Avg or Tot	7.07	21.74	(16.26)	9,973

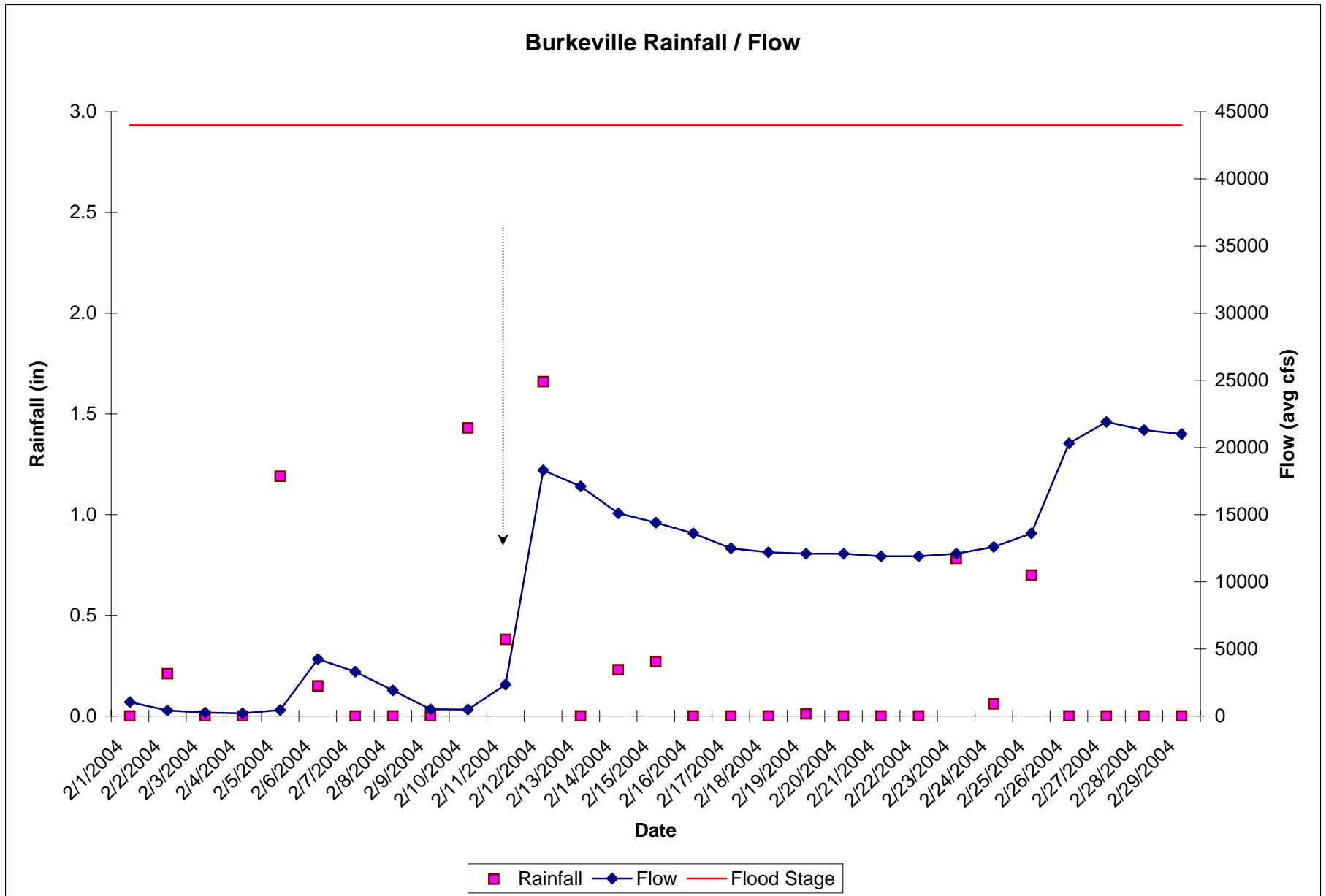
	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 2/11/2004

SABINE RIVER AUTHORITY OF TEXAS

February 2004



Flood stage flow of 44,000 cfs calculated from flood stage gage height, 38 ft msl.

SABINE RIVER AUTHORITY OF TEXAS

Bon Wier Weather and River Data

February 2004

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
2/1/2004	19.42	(10.58)	6,700	0.00
2/2/2004	18.41	(11.59)	5,390	0.13
2/3/2004	17.02	(12.98)	3,820	0.01
2/4/2004	16.04	(13.96)	2,870	0.00
2/5/2004	15.62	(14.38)	2,500	0.74
2/6/2004	20.94	(9.06)	8,910	0.10
2/7/2004	21.73	(8.27)	10,100	0.00
2/8/2004	20.70	(9.30)	8,540	0.00
2/9/2004	18.84	(11.16)	5,930	0.00
2/10/2004	16.71	(13.29)	3,510	0.58
2/11/2004	19.85	(10.15)	7,290	0.92
2/12/2004	28.43	(1.57)	23,600	1.23
2/13/2004	31.11	1.11	31,800	0.00
2/14/2004	30.13	0.13	28,400	0.25
2/15/2004	29.75	(0.25)	27,300	0.18
2/16/2004	29.13	(0.87)	25,500	0.00
2/17/2004	27.74	(2.26)	21,800	0.00
2/18/2004	26.44	(3.56)	18,800	0.00
2/19/2004	25.66	(4.34)	17,200	0.00
2/20/2004	25.36	(4.64)	16,600	0.00
2/21/2004	25.12	(4.88)	16,100	0.00
2/22/2004	24.98	(5.02)	15,900	0.00
2/23/2004	24.94	(5.06)	15,800	0.40
2/24/2004	25.51	(4.49)	16,900	0.00
2/25/2004	26.15	(3.85)	18,200	0.81
2/26/2004	27.60	(2.40)	21,500	0.01
2/27/2004	29.42	(0.58)	26,300	0.00
2/28/2004	29.76	(0.24)	27,300	0.00
2/29/2004	29.37	(0.63)	26,200	0.00
Avg or Tot	24.20	(5.80)	15,888	5.36

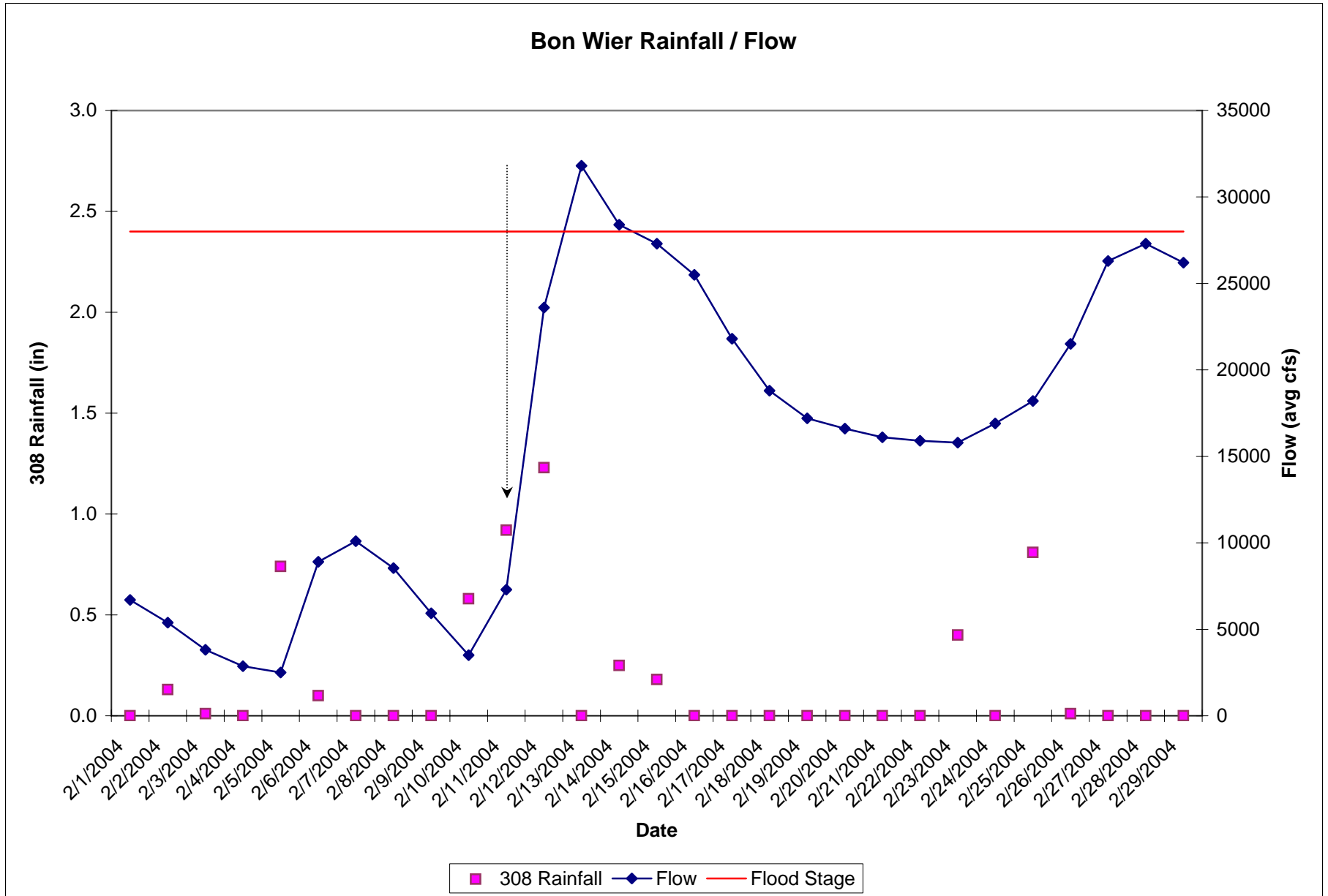
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 2/11/2004

SABINE RIVER AUTHORITY OF TEXAS

February 2004



Lower Sabine Basin sampled on 2/11/2004

Flood stage flow of 28,000 cfs calculated from flood stage gage height, 30 ft msl.

SABINE RIVER AUTHORITY OF TEXAS

Ruliff Weather and River Data

February 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	Flow avg	309 Rainfall
2/1/2004	23.57	(0.43)	13,900	27,570	13,900	OUT
2/2/2004	23.57	(0.43)	13,900	27,570	13,900	OUT
2/3/2004	23.55	(0.45)	13,700	27,174	13,833	OUT
2/4/2004	23.33	(0.67)	12,300	24,397	13,450	OUT
2/5/2004	23.17	(0.83)	11,400	22,612	13,040	OUT
2/6/2004	22.63	(1.37)	9,270	18,387	12,412	OUT
2/7/2004	22.46	(1.54)	8,740	17,336	11,887	OUT
2/8/2004	23.00	(1.00)	10,600	21,025	11,726	OUT
2/9/2004	23.32	(0.68)	12,300	24,397	11,790	OUT
2/10/2004	23.51	(0.49)	13,400	26,578	11,951	OUT
2/11/2004	23.56	(0.44)	13,800	27,371	12,119	OUT
2/12/2004	23.67	(0.33)	14,700	29,157	12,334	OUT
2/13/2004	23.86	(0.14)	16,600	32,926	12,662	OUT
2/14/2004	24.24	0.24	20,800	41,256	13,244	OUT
2/15/2004	25.00	1.00	31,600	62,678	14,467	OUT
2/16/2004	25.37	1.37	38,000	75,372	15,938	OUT
2/17/2004	25.17	1.17	34,500	68,430	17,030	OUT
2/18/2004	24.88	0.88	29,800	59,107	17,739	OUT
2/19/2004	24.62	0.62	26,000	51,570	18,174	OUT
2/20/2004	24.29	0.29	21,400	42,446	18,336	OUT
2/21/2004	24.09	0.09	18,900	37,488	18,362	OUT
2/22/2004	23.97	(0.03)	17,500	34,711	18,323	OUT
2/23/2004	23.89	(0.11)	16,700	33,124	18,253	OUT
2/24/2004	23.85	(0.15)	16,300	32,331	18,171	OUT
2/25/2004	23.86	(0.14)	16,400	32,529	18,100	OUT
2/26/2004	23.88	(0.12)	16,600	32,925	18,042	OUT
2/27/2004	23.95	(0.05)	17,300	34,314	18,015	OUT
2/28/2004	24.03	0.03	18,200	36,099	18,021	OUT
2/29/2004	24.17	0.17	19,900	39,471	18,086	OUT
Avg or Tot	23.88	(0.12)	18,087	1,040,351		0.00

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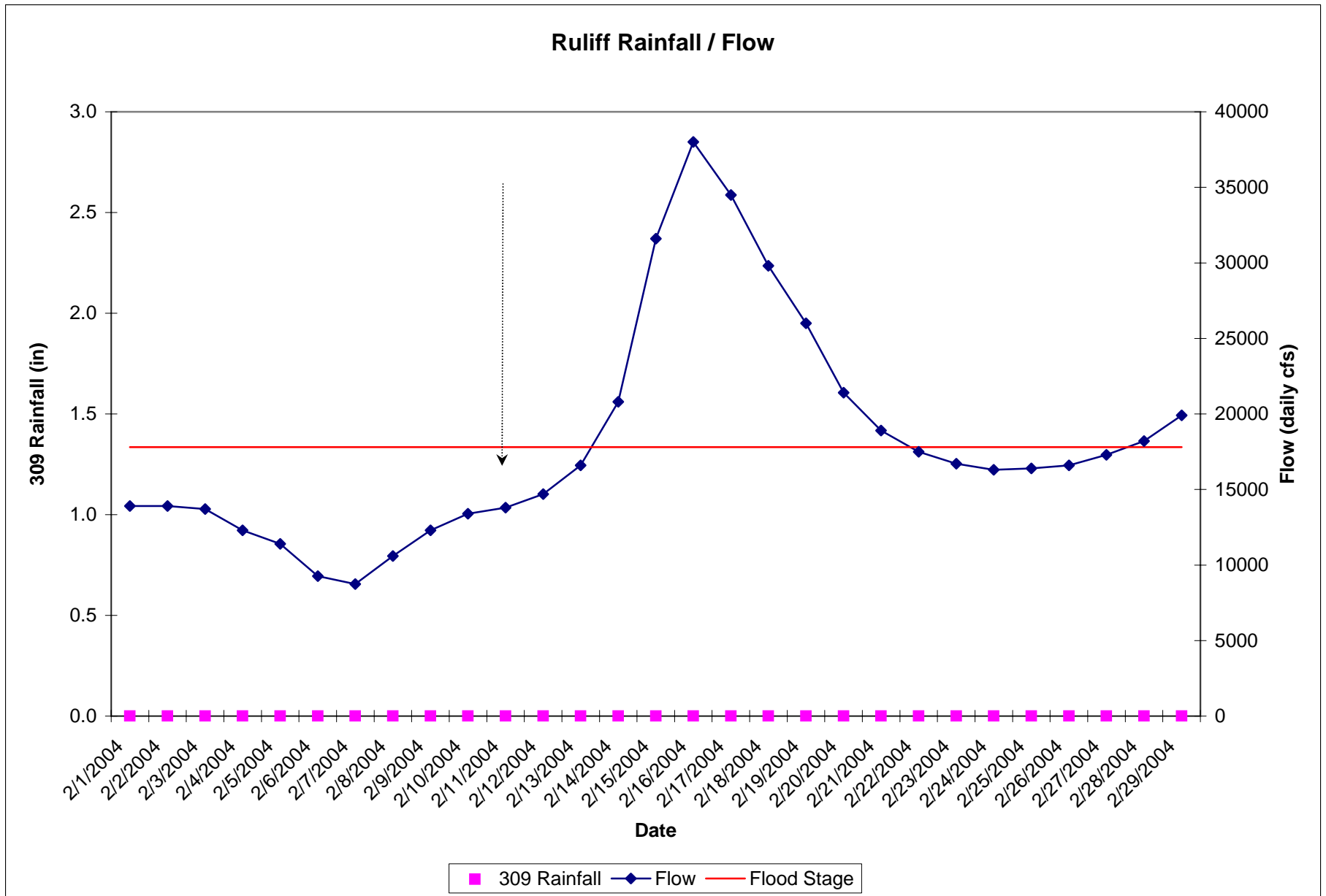
FS: Flood Stage 24 feet with 10 foot datum

OUT: Gage Out

Lower Sabine Basin Sampled on 2/11/2004

SABINE RIVER AUTHORITY OF TEXAS

February 2004



Lower Sabine Basin sampled on 2/11/2004

Flood stage flow of 17,800 cfs calculated from flood stage gage height, 24 ft msl.

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FY 2004 Fixed Monitoring Stations

Tidal Sabine Basin

SW	Segment	Station	Location
1.05	0501	15653 (ICW1)	INTERCOASTAL WATERWAY AT PERRY RIDGE
1.01	0501	15654 (BB1)	BLACK BAYOU IN CAMERON PARISH
1.00	0501	10395 (SR1)	SABINE RIVER 12.00 KM UPSTREAM OF IH 10
1.00	0501	10394 (SRT2)	SABINE RIVER AT IH 10
1.00	0501	18056 (SRT1C)	OLD HWY 90
1.00	0501	18055 (SRT1B)	SABINE RIVER AT CHANNEL LIGHT 20
1.00	0501	10393 (SRT1A)	SABINE RIVER AT CHANNEL LIGHT 13
1.00	0501	10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3

SABINE RIVER AUTHORITY OF TEXAS

Tidal Report

February 2004

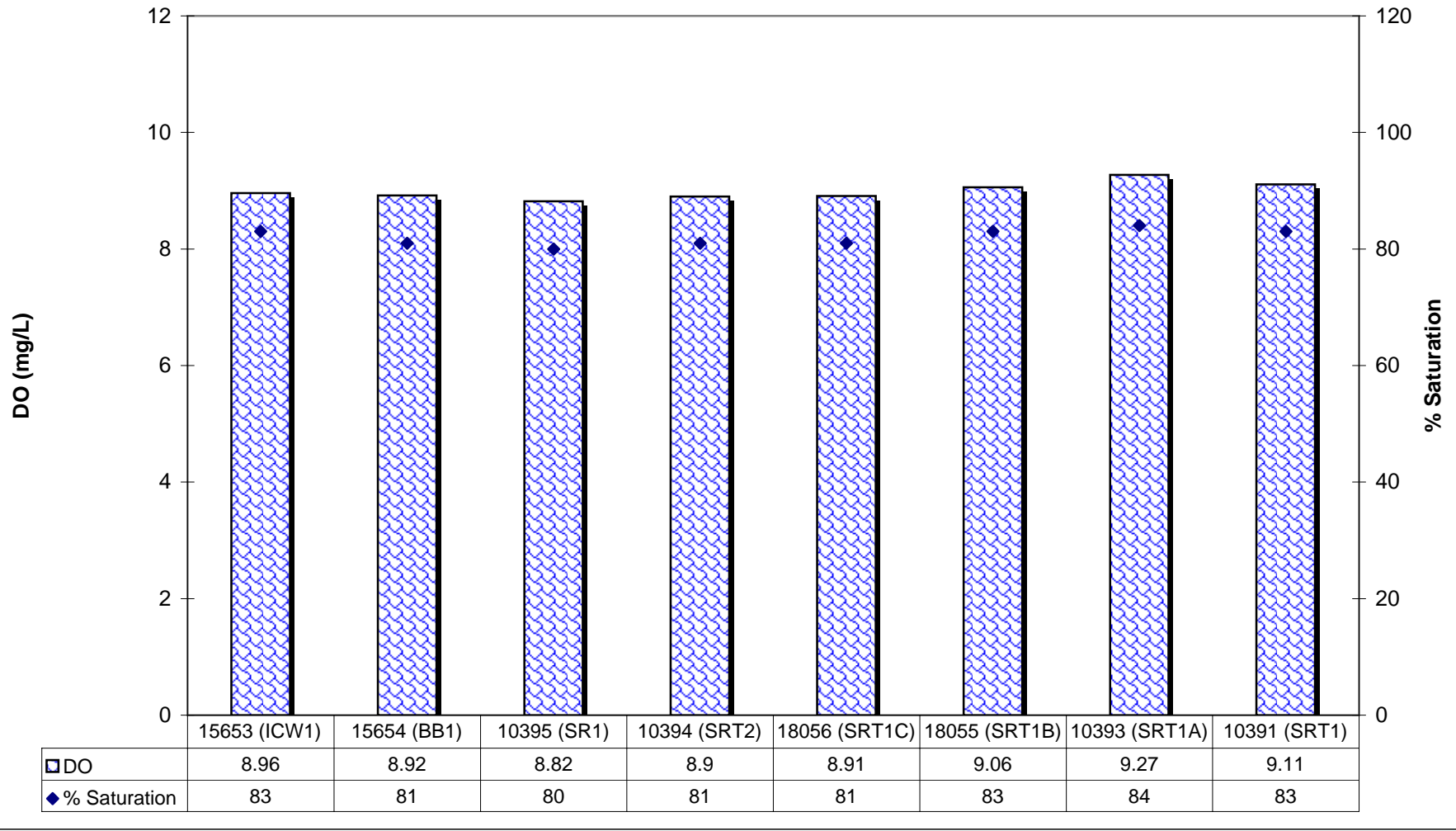
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
2/12/04 10:20 AM	1.05	15653 (ICW1)	11.9	6.75	8.96	83	309	< 1	0.19	115	*	> 2420	*	< 0.02	0.03	0.08	9	*	*
2/12/04 11:10 AM	1.01	15654 (BB1)	11.2	6.67	8.92	81	885	< 1	0.25	37.5	*	79	*	< 0.02	0.03	< 0.04	9	*	*
2/12/04 9:23 AM	1.00	10395 (SR1)	11.1	6.4	8.82	80	57	*	0.16	51.8	648	*	*	< 0.02	0.02	< 0.04	11	*	*
2/12/04 9:50 AM	1.00	10394 (SRT2)	11.2	6.34	8.9	81	58	< 1	0.18	47.3	*	579	*	< 0.02	< 0.02	< 0.04	10	*	*
2/12/04 1:00 PM	1.00	18056 (SRT1C)	11.2	6.31	8.91	81	69	< 1	0.2	51.7	*	727	*	< 0.02	0.02	< 0.04	10	*	*
2/12/04 10:40 AM	1.00	18055 (SRT1B)	11.3	6.26	9.06	83	115	< 1	0.22	52	*	816	*	< 0.02	0.02	< 0.04	10	*	*
2/12/04 10:55 AM	1.00	10393 (SRT1A)	11.3	6.4	9.27	84	185	< 1	0.18	66.3	*	727	*	< 0.02	0.03	< 0.04	10	*	*
2/12/04 11:20 AM	1.00	10391 (SRT1)	11.4	6.43	9.11	83	160	< 1	0.18	70.9	*	1733	*	< 0.02	0.03	0.05	10	*	*

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

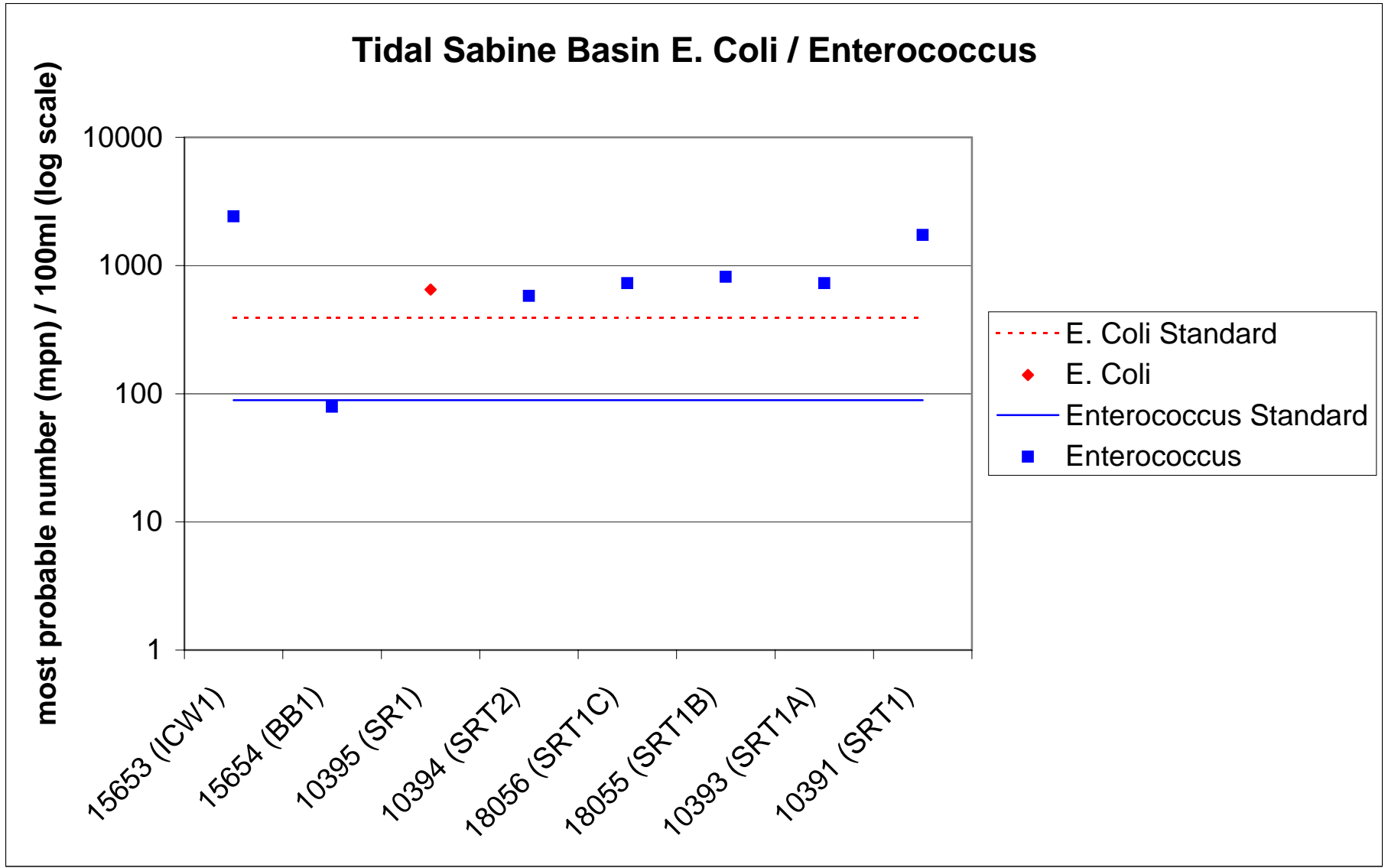
February 2004

Tidal Sabine Basin DO / % Saturation



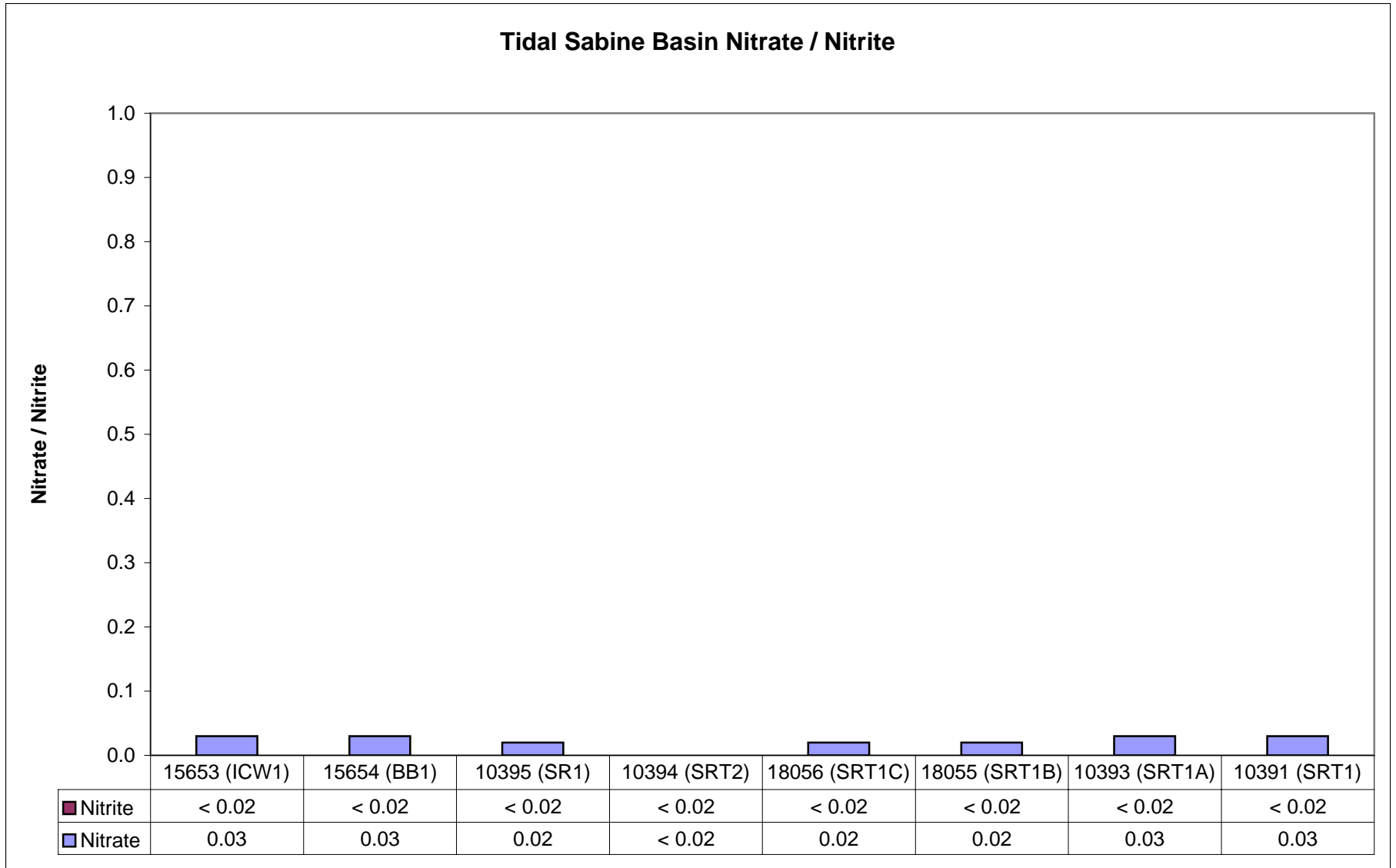
SABINE RIVER AUTHORITY OF TEXAS

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SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

February 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity	Salinity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	μS/cm 00094	ppt 00480
2/12/04 10:20 AM	1.05	15653 (ICW1)	0.3	11.9	6.75	8.96	83	309	< 1
			6.1	11.9	6.65	8.78	81	310	< 1
2/12/04 11:10 AM	1.01	15654 (BB1)	0.3	11.2	6.67	8.92	81	885	< 1
			5.6	11.2	6.62	8.61	79	896	< 1
2/12/04 9:50 AM	1.00	10394 (SRT2)	0.3	11.2	6.34	8.9	81	58	< 1
			7.1	11.2	6.2	8.77	80	51	< 1
2/12/04 1:00 PM	1.00	18056 (SRT1C)	0.3	11.2	6.31	8.91	81	69	< 1
			11.2	11.2	6.23	8.82	80	75	< 1
2/12/04 10:40 AM	1.00	18055 (SRT1B)	0.3	11.3	6.26	9.06	83	115	< 1
			10.1	11.7	6.48	9.02	83	367	< 1
2/12/04 10:55 AM	1.00	10393 (SRT1A)	0.3	11.3	6.4	9.27	84	185	< 1
			8.2	11.3	6.39	9.01	82	184	< 1
2/12/04 11:20 AM	1.00	10391 (SRT1)	0.3	11.4	6.43	9.11	83	160	< 1
			10.4	11.4	6.36	8.95	82	163	< 1

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

February 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
2/1/2004	OUT	OUT	OUT	52	38	39	0.00
2/2/2004	OUT	OUT	OUT	62	37	53	0.30
2/3/2004	OUT	OUT	OUT	55	21	26	0.00
2/4/2004	OUT	OUT	OUT	50	36	43	0.00
2/5/2004	OUT	OUT	OUT	68	43	66	0.90
2/6/2004	OUT	OUT	OUT	66	35	40	0.72
2/7/2004	OUT	OUT	OUT	54	30	32	0.00
2/8/2004	OUT	OUT	OUT	49	34	34	0.00
2/9/2004	OUT	OUT	OUT	41	32	40	0.02
2/10/2004	OUT	OUT	OUT	57	48	50	0.40
2/11/2004	OUT	OUT	OUT	51	41	50	1.47
2/12/2004	OUT	OUT	OUT	56	37	41	1.95
2/13/2004	OUT	OUT	OUT	46	41	41	0.00
2/14/2004	OUT	OUT	OUT	42	40	41	0.64
2/15/2004	OUT	OUT	OUT	44	36	37	0.31
2/16/2004	OUT	OUT	OUT	50	36	39	0.00
2/17/2004	OUT	OUT	OUT	54	35	39	0.00
2/18/2004	OUT	OUT	OUT	58	36	39	0.00
2/19/2004	OUT	OUT	OUT	57	32	47	0.00
2/20/2004	OUT	OUT	OUT	65	46	57	0.00
2/21/2004	OUT	OUT	OUT	76	48	51	0.00
2/22/2004	OUT	OUT	OUT	65	38	41	0.00
2/23/2004	OUT	OUT	OUT	68	38	56	0.14
2/24/2004	OUT	OUT	OUT	58	44	56	0.03
2/25/2004	OUT	OUT	OUT	64	48	52	0.63
2/26/2004	OUT	OUT	OUT	52	35	42	0.03
2/27/2004	OUT	OUT	OUT	60	35	38	0.00
2/28/2004	OUT	OUT	OUT	60	36	42	0.00
2/29/2004	OUT	OUT	OUT	56	41	53	0.00
Avg or Tot	OUT	OUT	OUT	56	38	44	7.54

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

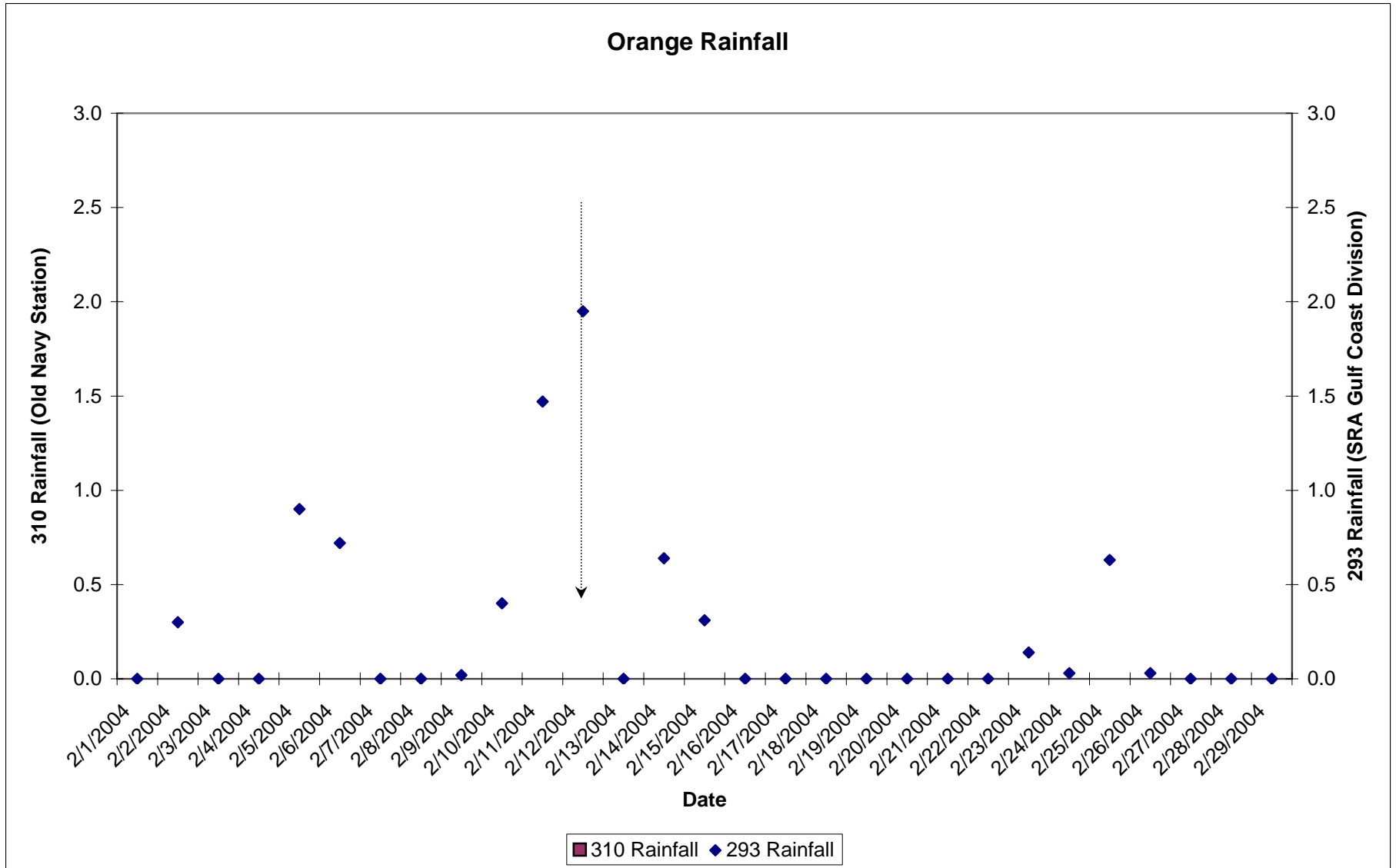
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 2/12/2004

SABINE RIVER AUTHORITY OF TEXAS

February 2004



Tidal Sabine Basin Sampled on 2/12/2004; 293 Rainfall: Gage Out all month (see page 43)