
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for January 2004. Water quality sampling was performed January 12th through January 15th. Recent weather (previous seven days) in the Sabine River Basin was cool, with daytime high air temperatures (Fahrenheit) from the mid 30's to the mid 60's at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the mid 40's to the mid 70's. Lows ranged from the low 20's to the upper 30's at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the mid 20's to the mid 40's. The reservoir sites were mixed. During the 28 days since the December sample run, the Upper Basin received 0.51 and 1.56 inches of rainfall as recorded at Lake Tawakoni and Lake Fork, respectively. The week prior to the sample run, Lake Tawakoni recorded no rain and Lake Fork recorded 0.02 inches of rain. Toledo Bend and Orange received 2.37 and 3.0 inches, respectively, during the 28 days preceding the sample run.

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

For the January sample run, most parameter measurements at Upper Basin sites were consistent with water of high quality. Chlorophyll *a* values at LT23D, LT23A, and LF3 were above screening levels for lake sites. The nitrate value at SR14 was also above screening levels. No sites exceeded the stream standards numeric criteria for *E. coli*.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The January monthly sampling results were indicative of water of high quality at most sites. The last significant amount of rainfall the area received was three days prior to the sample run. The level of Toledo Bend Reservoir was recorded at 167.45 feet with no discharge from the spillway or the generator at the time of sampling. Most reservoir sites showed signs of stratification, with some pH and dissolved oxygen differences throughout the water column. Nitrate values at TB8 and TB7A were above the screening levels, but all other parameters in the Lower Basin were within the stream standards.

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 last significant rainfall the area received was four days prior to sampling. Most sites in this section of the Basin showed some signs of stratification with oxygen and pH differences throughout the water column. No anoxic conditions were found at any tidal station. Surface salinities were found at all but the two most northern tidal stations. Among the stations with surface salinity, the salinity values ranged from 2.0 to 3.0 ppt. The highest salinity, 14.0 ppt, was found at station SRT1 at the deepest depth measured. All parameters from the tidal sites were within stream standards.

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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Monthly Water Quality Report

January 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

January 2004

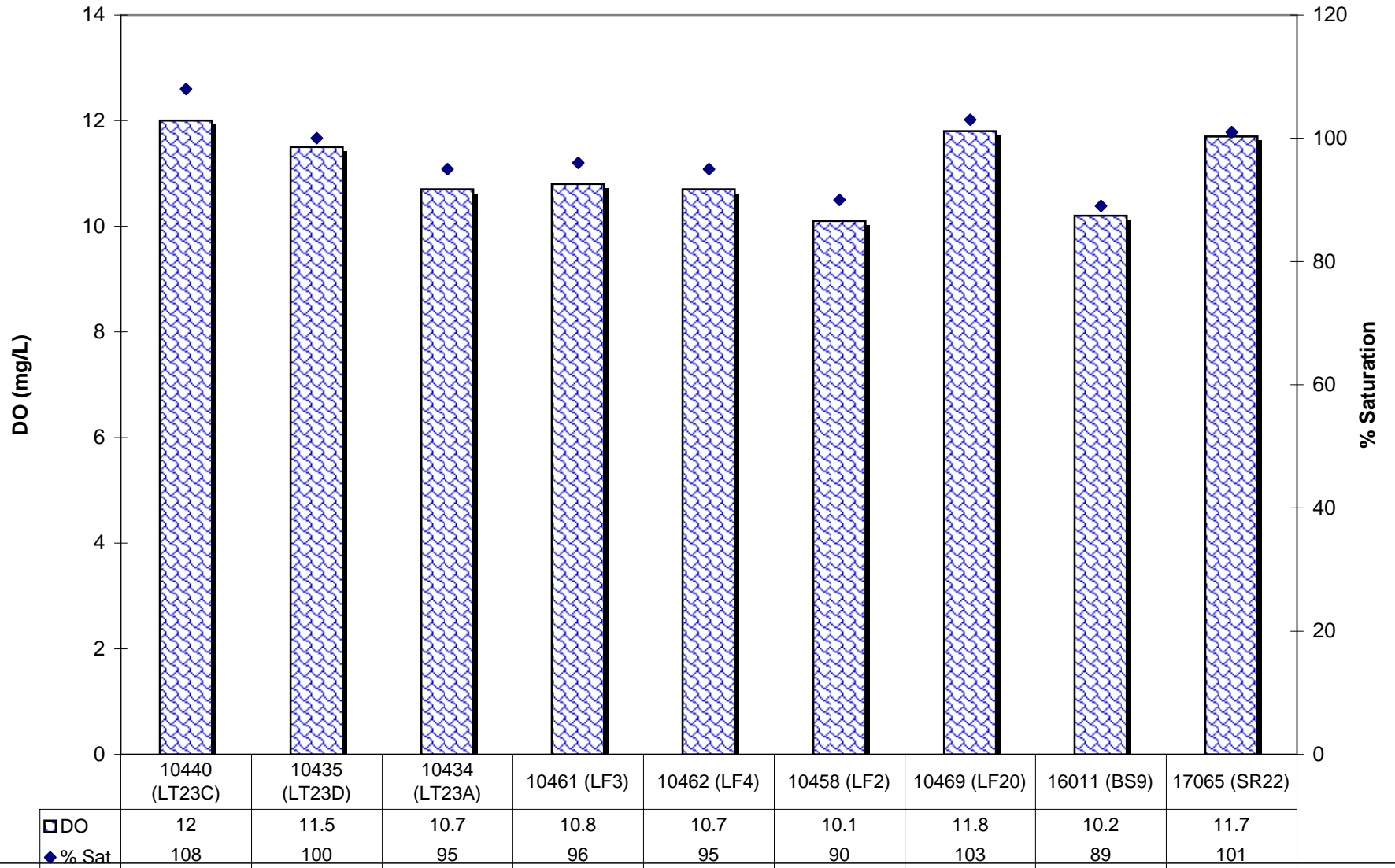
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	E. coli mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
1/13/04 11:39 AM	7.00	10440 (LT23C)	9.81	8.26	12	108	190	*	0.51	10.2	< 1	19	< 0.02	0.26	< 0.04	5	70	68	< 10	11.2
1/13/04 10:55 AM	7.00	10435 (LT23D)	8.55	8.11	11.5	100	193	*	0.51	13.7	< 1	41	< 0.02	0.1	< 0.04	6	80	72	< 10	11.4
1/13/04 9:55 AM	7.00	10434 (LT23A)	9.06	7.75	10.7	95	192	*	0.94	5.15	< 1	26	< 0.02	0.26	< 0.04	6	70	64	< 10	11
1/13/04 8:45 AM	6.12	10461 (LF3)	9.24	7.26	10.8	96	161	*	1.32	3.12	< 1	25	< 0.02	0.14	< 0.04	6	30	40	15.1	20.9
1/13/04 9:05 AM	6.12	10462 (LF4)	9.42	7.32	10.7	95	162	*	1.27	3.43	< 1	17	< 0.02	0.23	< 0.04	6	30	36	14.9	21.1
1/13/04 8:11 AM	6.12	10458 (LF2)	9.68	7.07	10.1	90	163	*	1.17	2.64	3	8	< 0.02	0.04	0.04	6	30	40	14.5	20.6
1/13/04 1:54 PM	6.10	10469 (LF20)	8.29	7.15	11.8	103	246	*	1.93	16.7	55	*	< 0.02	0.22	< 0.04	6	30	48	38.5	27.3
1/14/04 7:45 AM	6.02	16011 (BS9)	8.92	6.49	10.2	89	155	*	> 1.4	6.46	54	*	< 0.02	0.8	< 0.04	5	10	28	26.2	14.9
1/13/04 12:49 PM	6.00	17065 (SR22)	7.96	7.53	11.7	101	443	*	0.36	22.1	99	*	< 0.02	0.03	< 0.04	7	80	116	50.7	57.1
1/13/04 1:30 PM	6.00	10430 (SR21)	7.58	7.19	11.3	96	852	*	0.61	12.2	49	*	< 0.02	1.48	0.35	7	60	100	159	64.4
1/13/04 2:19 PM	6.00	10429 (SR19)	8.15	7.51	13.1	114	430	*	0.64	17.4	57	*	< 0.02	0.21	< 0.04	6	30	60	81.4	38.1
1/14/04 8:17 AM	5.00	10428 (SR17)	7.4	7.06	11.5	100	234	*	0.63	17	45	*	< 0.02	0.74	< 0.04	5	20	40	38.1	24.1
1/14/04 8:52 AM	5.00	10427 (SR16)	7.92	6.93	11.3	97	223	*	0.66	17.4	66	*	< 0.02	0.45	< 0.04	5	20	40	37.8	20.1
1/14/04 9:20 AM	5.00	10426 (SR15)	8.25	6.96	11.3	98	229	*	0.62	20.4	39	*	< 0.02	0.49	< 0.04	5	20	36	40.2	21.2
1/14/04 10:10 AM	5.00	10423 (SR14)	9.04	7	11.2	99	265	*	0.62	20.7	37	*	< 0.02	3.29	0.27	6	20	40	44.3	26
1/14/04 11:10 AM	5.00	13628 (SR11)	9.45	7.38	11.3	101	415	*	0.58	18.7	15	*	< 0.02	1.87	0.15	7	50	64	67.1	40.2
1/14/04 11:52 AM	5.00	10415 (SR10)	9.22	7.3	11.1	98	410	*	0.65	20.7	23	*	< 0.02	1.3	0.05	7	50	68	64.3	42

*: Not sampled on this run

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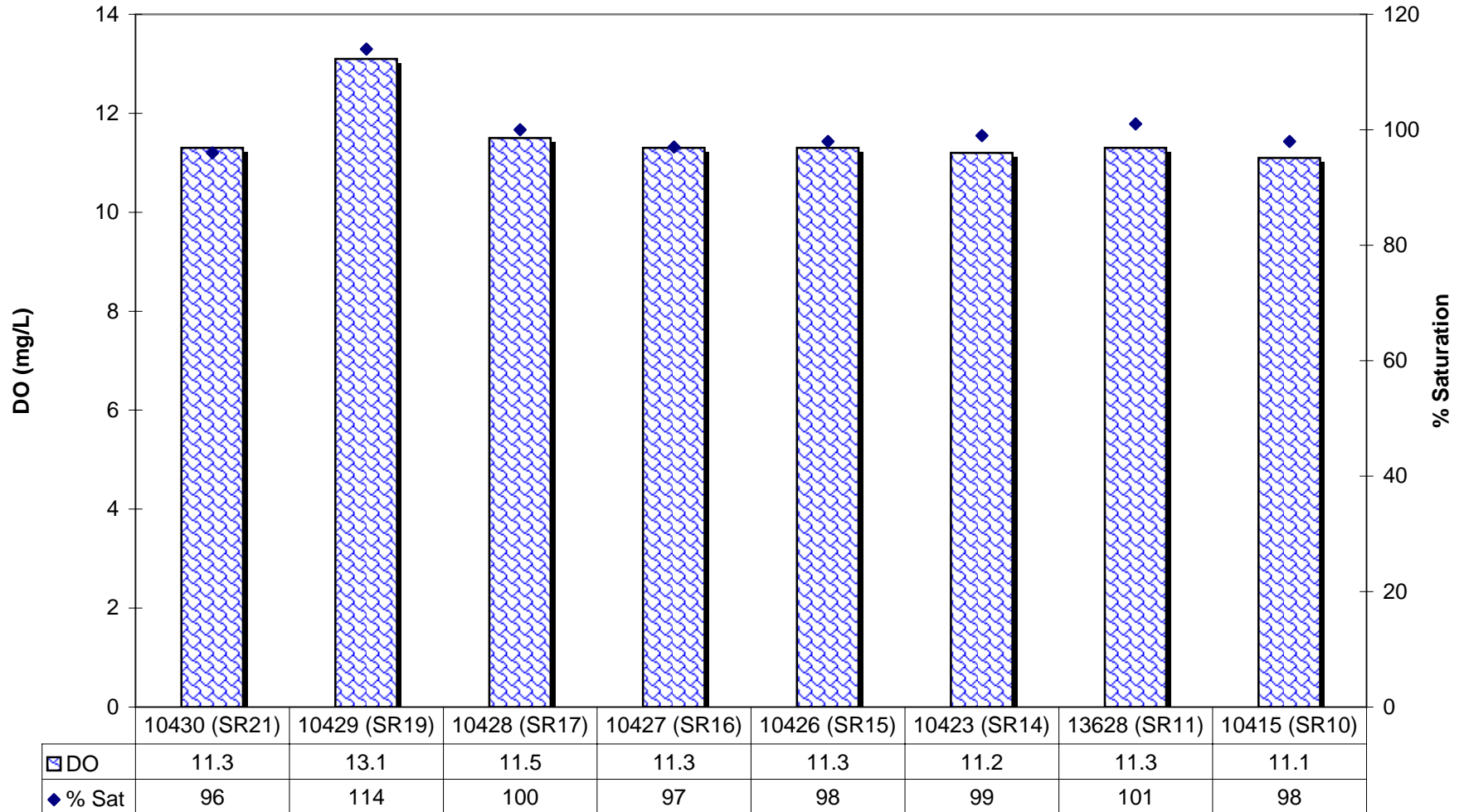
Upper Sabine Basin DO / % Saturation (1 of 2)



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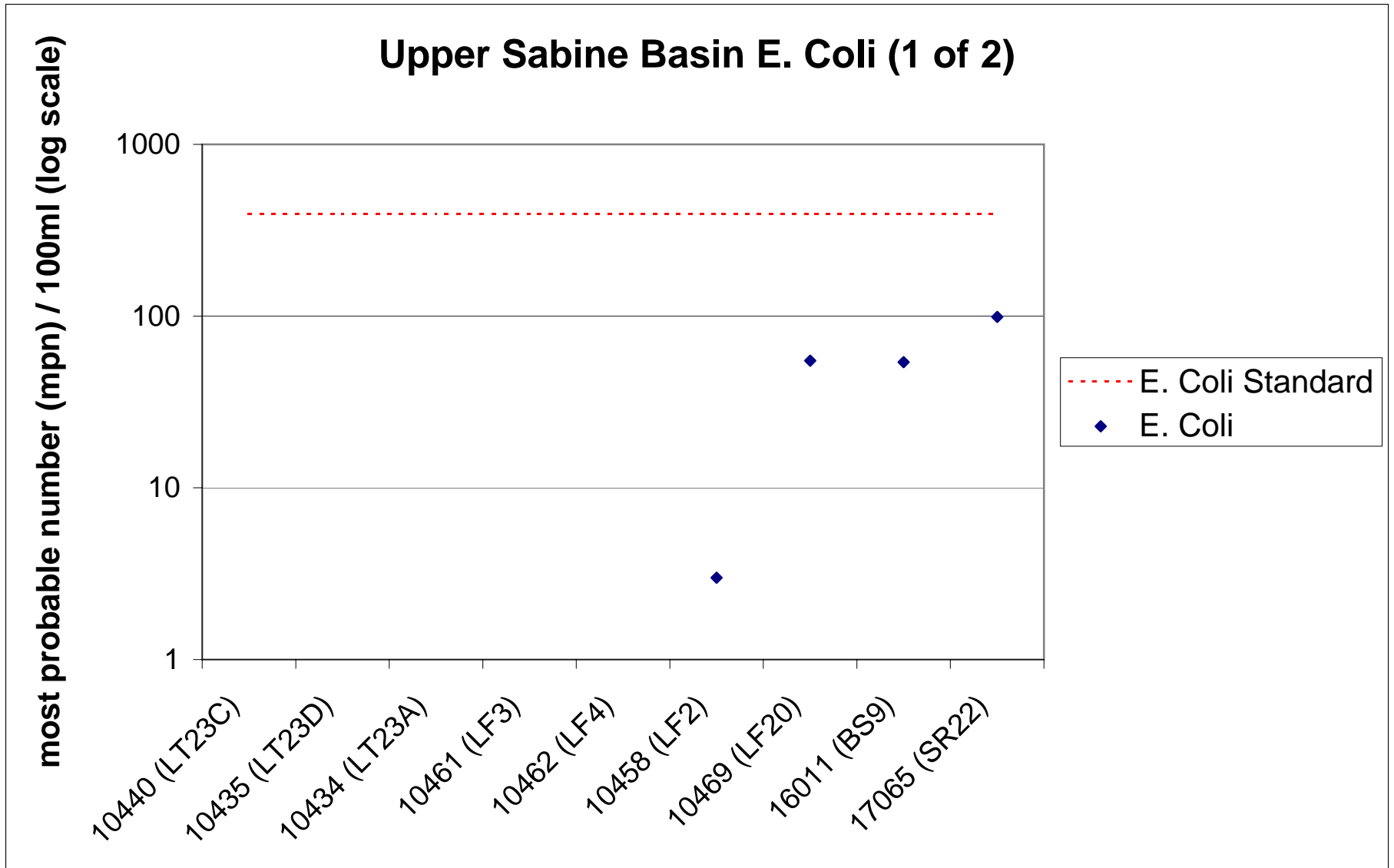
January 2004

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



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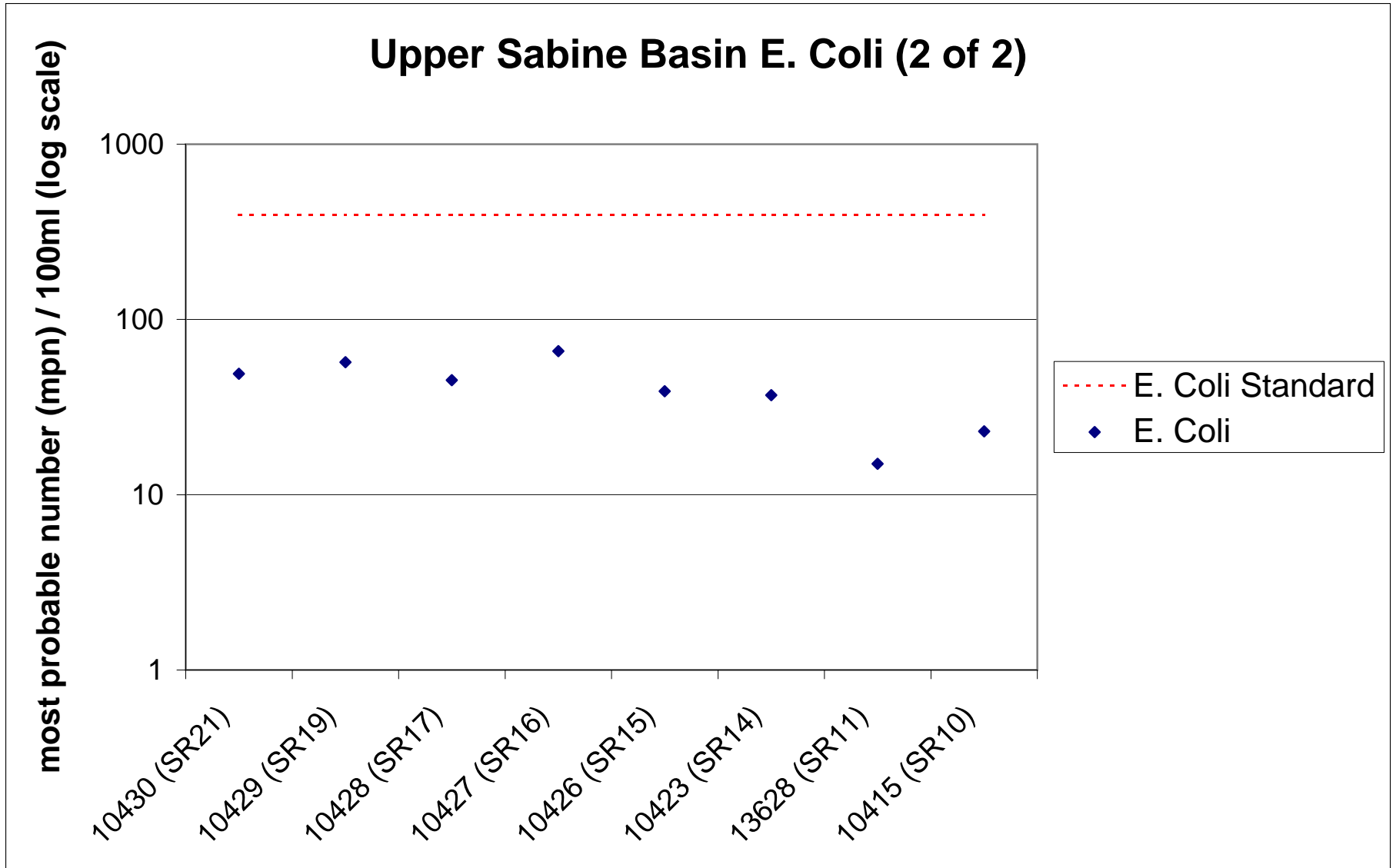
January 2004



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

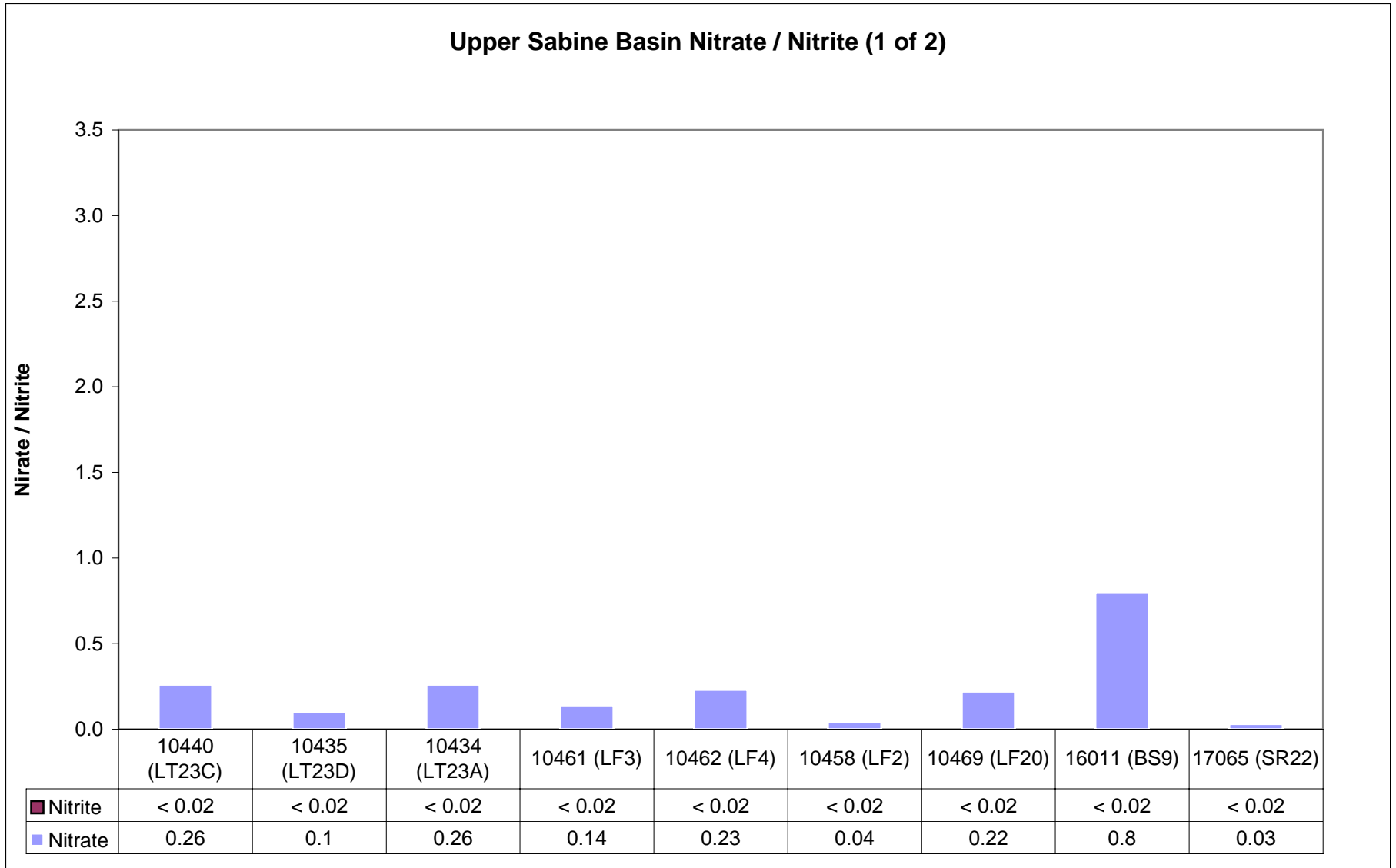
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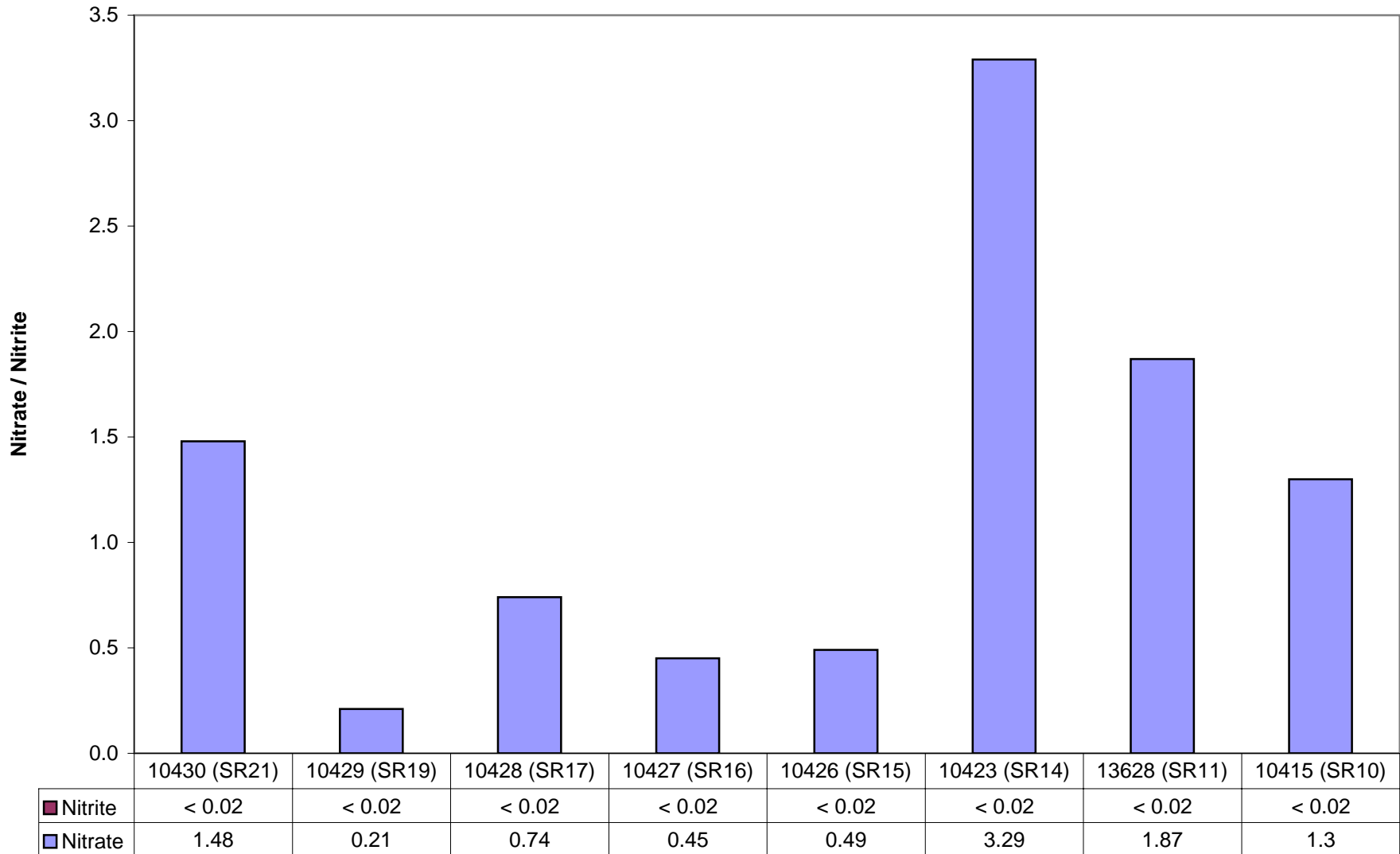
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Lower Sabine Basin Nitrate / Nitrite (2 of 2)



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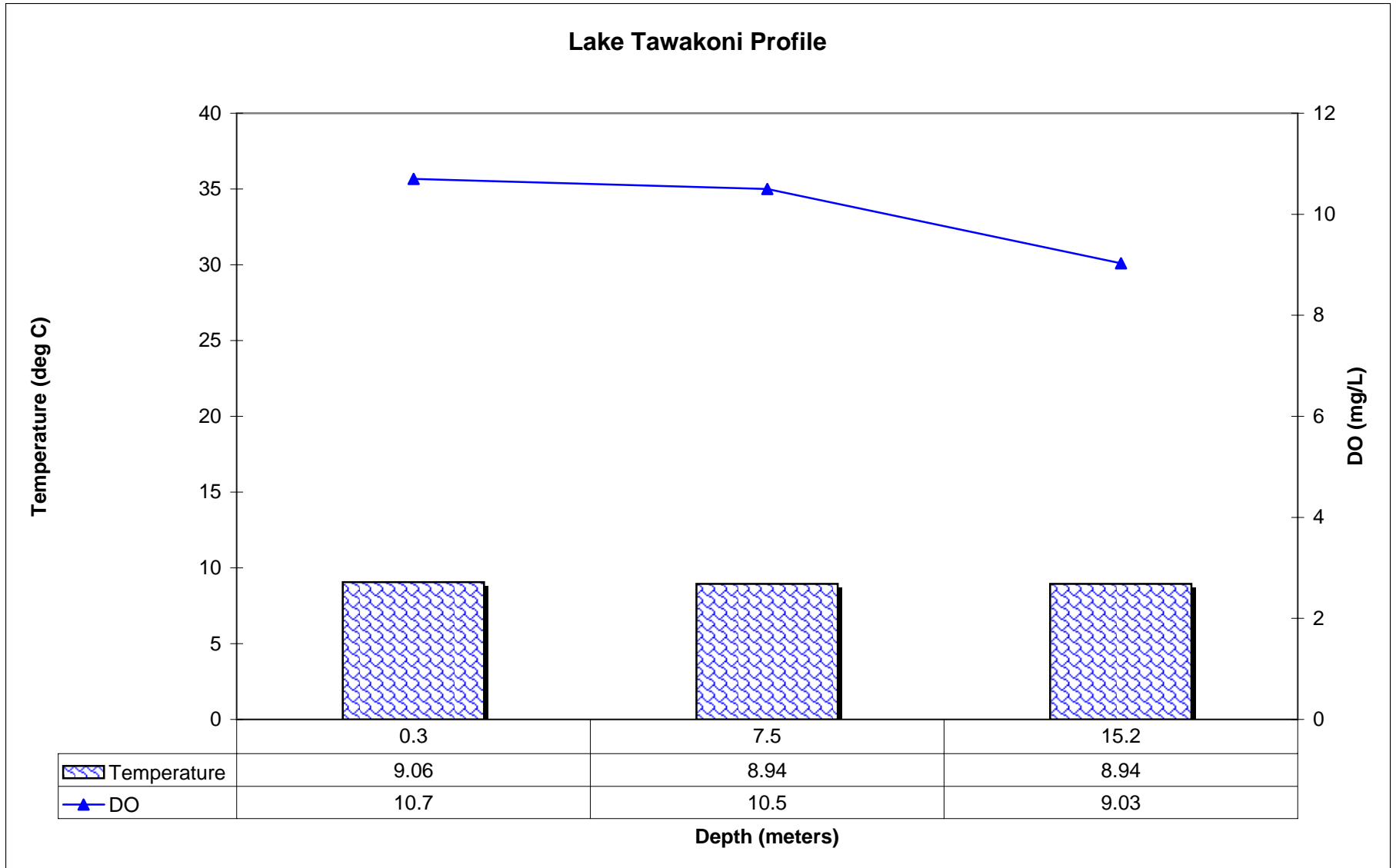
Upper Basin Profiles

January 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	μS/cm 00094
1/13/04 11:39 AM	7.00	10440 (LT23C)	0.3	9.81	8.26	12	108	190
			2.1	9.02	8.01	11.3	100	192
			3.5	8.91	7.83	10.8	95	196
1/13/04 10:55 AM	7.00	10435 (LT23D)	0.3	8.55	8.11	11.5	100	193
			4.9	8.29	7.94	11.1	95	201
			8.4	8.27	7.92	11.1	96	203
1/13/04 9:55 AM	7.00	10434 (LT23A)	0.3	9.06	7.75	10.7	95	192
			7.5	8.94	7.65	10.5	92	193
			15.2	8.94	7.37	9.03	80	193
1/13/04 8:45 AM	6.12	10461 (LF3)	0.3	9.24	7.26	10.8	96	161
			5	8.79	7.03	10.1	88	164
			9.3	8.04	7.06	10.1	91	172
1/13/04 9:05 AM	6.12	10462 (LF4)	0.3	9.42	7.32	10.7	95	162
			5.1	9.28	7.26	10.6	94	161
			10.7	9.09	7.16	10.3	91	164
1/13/04 8:11 AM	6.12	10458 (LF2)	0.3	9.68	7.07	10.1	90	163
			9	9.53	6.93	9.92	88	161
			18.7	9.4	6.83	9.48	84	166

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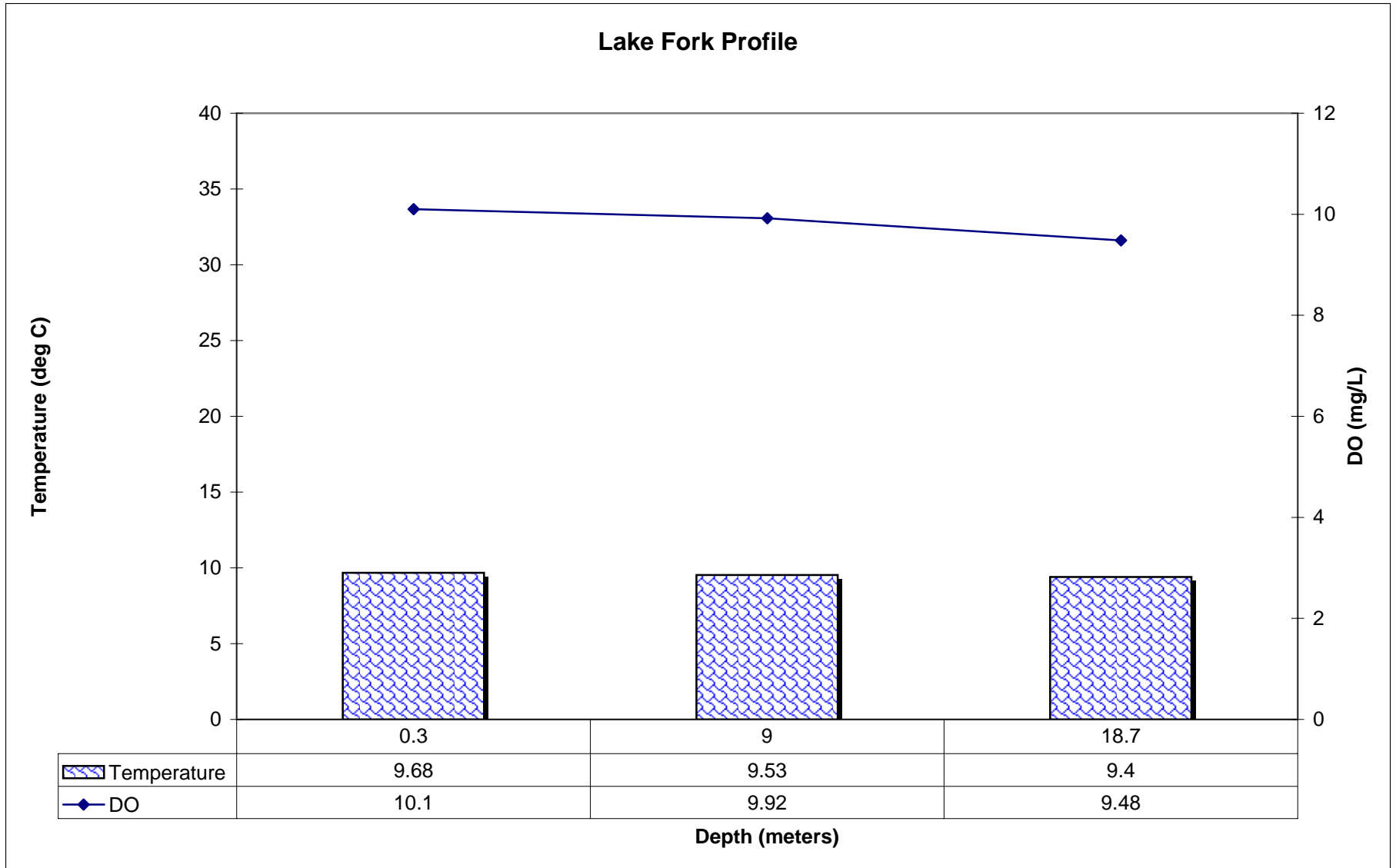
January 2004



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 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
1/1/2004	434.54	(2.96)	5	64	38	0.00	0.05
1/2/2004	434.56	(2.94)	5	71	63	0.00	0.14
1/3/2004	434.53	(2.97)	5	70	62	0.00	0.02
1/4/2004	434.55	(2.95)	5	72	64	0.00	0.15
1/5/2004	434.62	(2.88)	5	66	28	0.09	0.04
1/6/2004	434.58	(2.92)	5	39	23	0.00	FZ
1/7/2004	434.47	(3.03)	5	37	23	0.00	FZ
1/8/2004	434.48	(3.02)	5	42	28	0.00	FZ
1/9/2004	434.54	(2.96)	5	52	37	0.02	0.00
1/10/2004	434.48	(3.02)	5	50	29	0.00	FZ
1/11/2004	434.44	(3.06)	5	52	30	0.00	FZ
1/12/2004	434.47	(3.03)	5	61	34	0.00	0.00
1/13/2004	434.46	(3.04)	5	63	39	0.00	0.06
1/14/2004	434.46	(3.04)	5	65	40	0.00	0.04
1/15/2004	434.46	(3.04)	5	68	51	0.00	0.04
1/16/2004	434.44	(3.06)	5	64	52	0.07	0.01
1/17/2004	434.52	(2.98)	5	63	54	0.90	0.00
1/18/2004	434.60	(2.90)	5	66	46	0.01	0.01
1/19/2004	434.65	(2.85)	5	46	32	0.29	FZ
1/20/2004	434.60	(2.90)	5	44	28	0.00	FZ
1/21/2004	434.60	(2.90)	5	48	29	0.00	0.12
1/22/2004	434.60	(2.90)	5	53	30	0.00	0.08
1/23/2004	434.60	(2.90)	5	58	34	0.00	0.08
1/24/2004	434.59	(2.91)	5	64	35	0.00	0.08
1/25/2004	434.64	(2.86)	5	59	51	0.93	0.28
1/26/2004	434.63	(2.87)	5	68	50	0.00	0.21
1/27/2004	434.67	(2.83)	5	53	22	0.00	FZ
1/28/2004	434.59	(2.91)	5	43	23	0.00	FZ
1/29/2004	434.59	(2.91)	5	56	25	0.00	FZ
1/30/2004	434.60	(2.90)	5	56	33	0.00	0.05
1/31/2004	434.56	(2.94)	5	44	33	0.00	0.10
Avg or Tot	434.55	(2.95)	5	57	38	2.31	1.56

	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.				

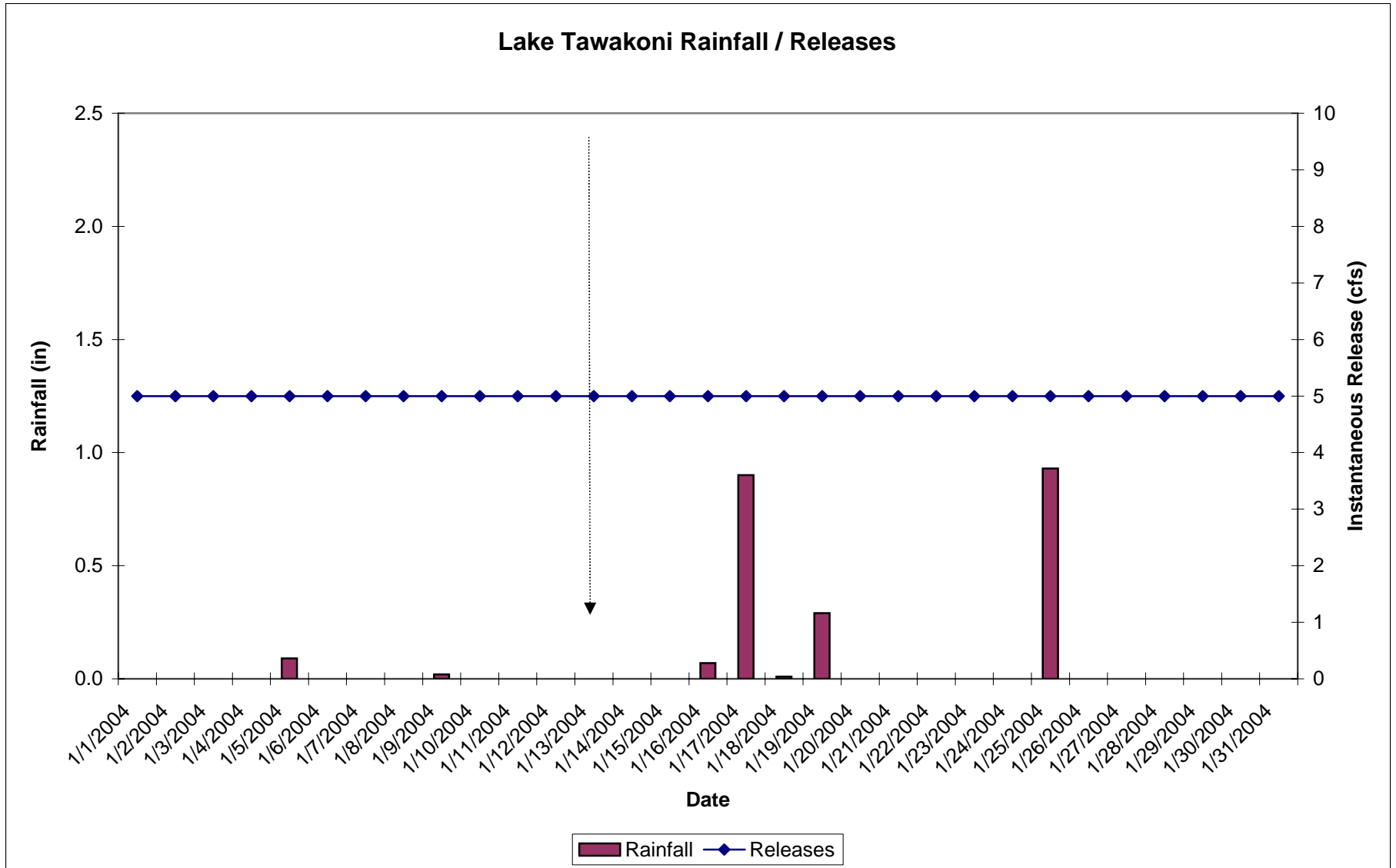
TOP: Top of Pool = 437.5 Feet M.S.L.

FZ: Gage Frozen

Lake Tawakoni Sampled on 1/13/2004

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January 2004



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

January 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
1/1/2004	400.56	(2.44)	8	8	68	36	0.00	0.04
1/2/2004	400.56	(2.44)	8	8	70	64	0.00	0.06
1/3/2004	400.56	(2.44)	8	8	72	64	0.00	0.10
1/4/2004	400.56	(2.44)	8	8	76	64	0.00	0.17
1/5/2004	400.57	(2.43)	8	8	70	28	0.05	0.10
1/6/2004	400.55	(2.45)	8	8	42	22	0.00	FZ
1/7/2004	400.54	(2.46)	8	8	40	22	0.00	FZ
1/8/2004	400.54	(2.46)	8	8	40	26	0.00	0.33
1/9/2004	400.55	(2.45)	8	8	48	36	0.02	0.16
1/10/2004	400.54	(2.46)	8	8	50	32	0.00	0.05
1/11/2004	400.54	(2.46)	8	8	54	30	0.00	0.10
1/12/2004	400.51	(2.49)	8	8	62	32	0.00	0.09
1/13/2004	400.51	(2.49)	8	8	66	36	0.00	0.02
1/14/2004	400.48	(2.52)	8	8	70	48	0.00	0.13
1/15/2004	400.47	(2.53)	8	8	70	50	0.00	0.04
1/16/2004	400.46	(2.54)	8	8	64	48	0.00	0.15
1/17/2004	400.53	(2.47)	8	8	68	52	0.75	0.10
1/18/2004	400.57	(2.43)	8	8	70	46	0.00	0.10
1/19/2004	400.55	(2.45)	8	8	50	26	0.25	FZ
1/20/2004	400.54	(2.46)	8	8	50	24	0.00	FZ
1/21/2004	400.48	(2.52)	8	8	50	24	0.00	FZ
1/22/2004	400.48	(2.52)	8	8	54	28	0.00	0.09
1/23/2004	400.48	(2.52)	8	8	62	30	0.00	0.07
1/24/2004	400.48	(2.52)	8	8	68	32	0.05	0.01
1/25/2004	400.55	(2.45)	8	8	62	50	0.82	0.16
1/26/2004	400.55	(2.45)	8	8	72	50	0.00	0.27
1/27/2004	400.55	(2.45)	8	8	60	22	0.00	FZ
1/28/2004	400.51	(2.49)	8	8	44	18	0.00	FZ
1/29/2004	400.50	(2.50)	8	8	54	22	0.00	0.37
1/30/2004	400.53	(2.47)	8	8	58	32	0.00	0.06
1/31/2004	400.51	(2.49)	8	8	48	30	0.00	0.06
Avg or Tot	400.53	(2.47)	8	8	59	36	1.94	2.83

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

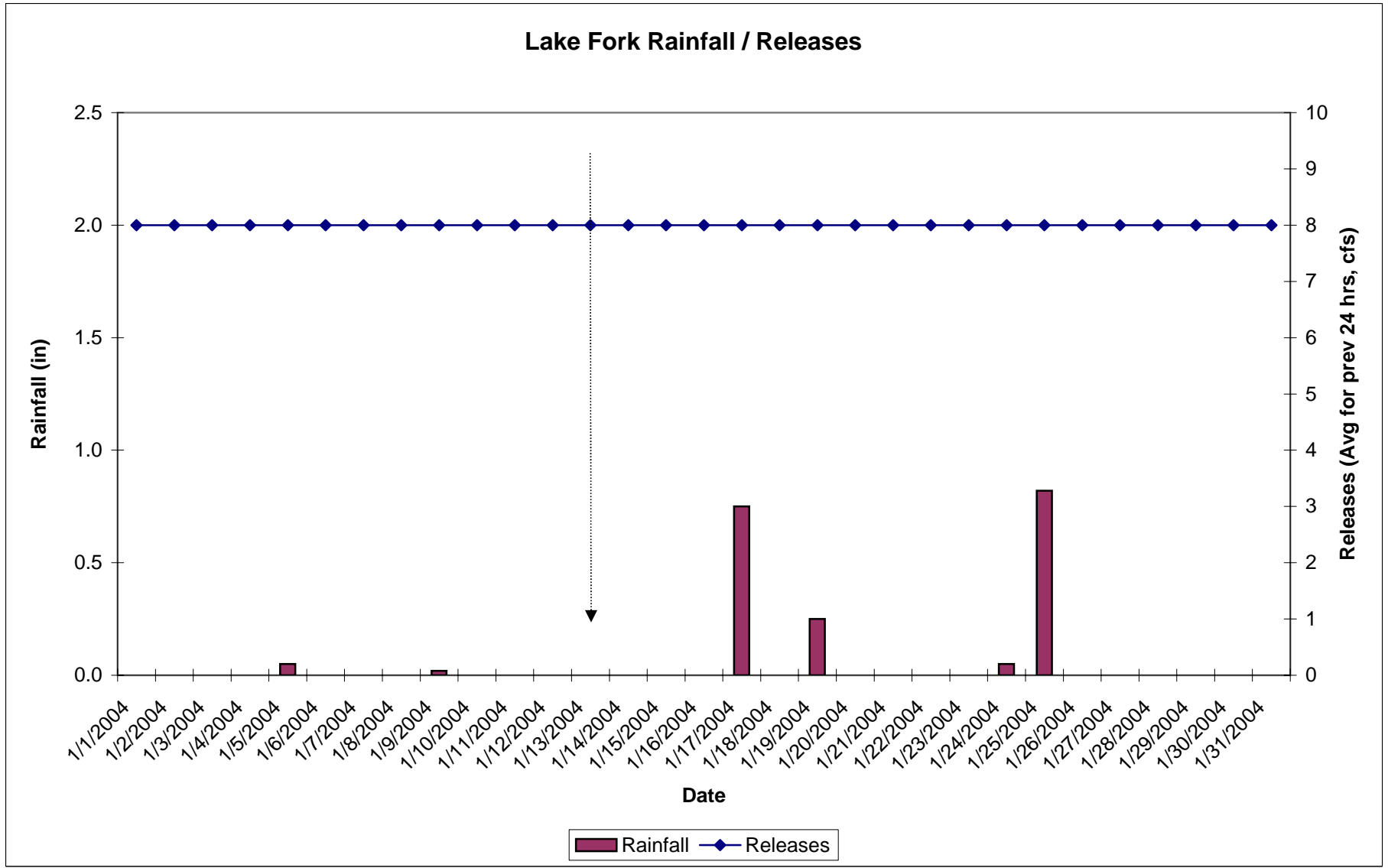
TOP: Top of Pool = 403 Feet M.S.L.

FZ: Gage Frozen

Lake Fork Sampled on 1/13/2004

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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

January 2004

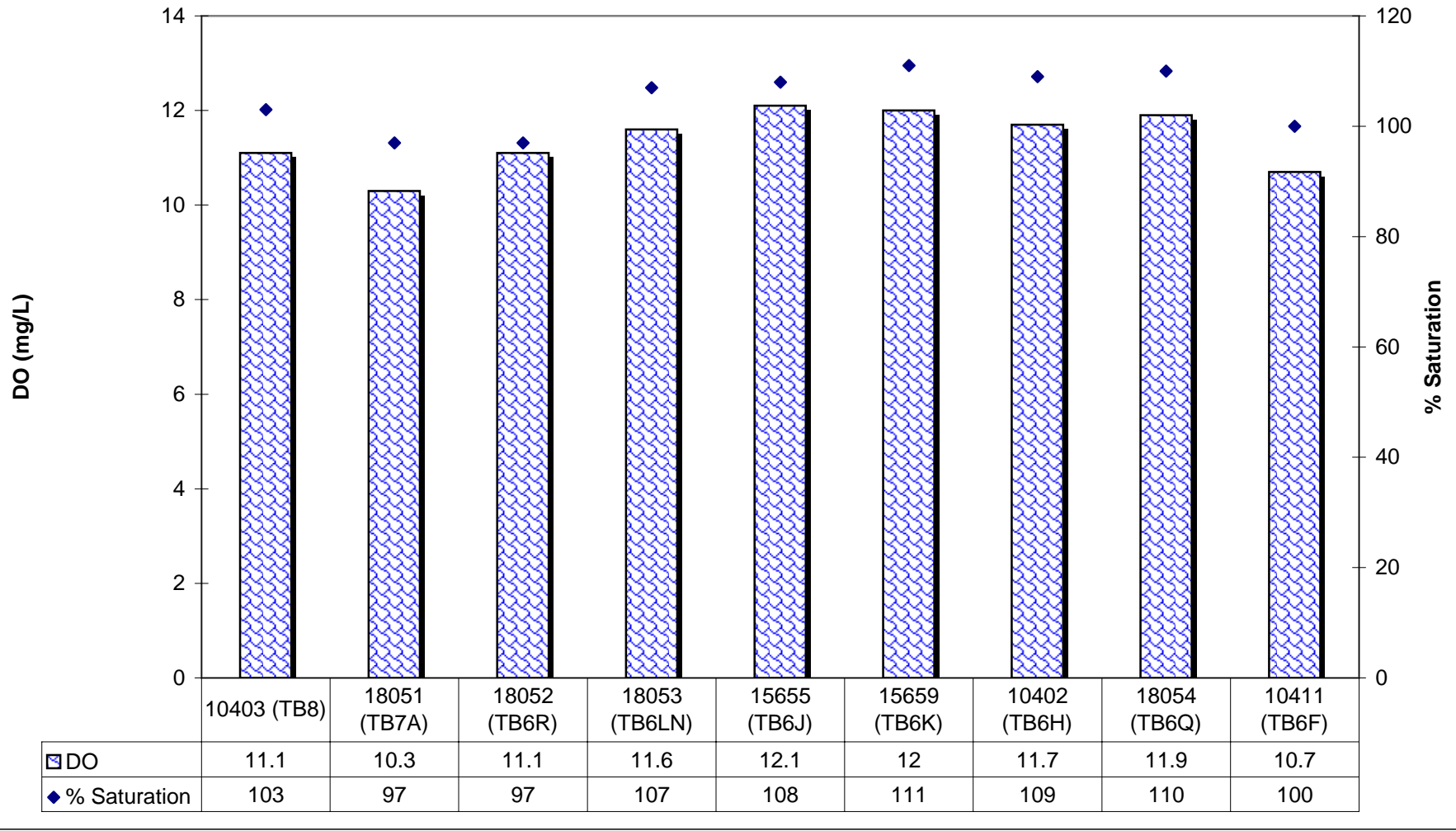
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
1/14/04 12:35 PM	4.00	10403 (TB8)	10.9	7.18	11.1	103	304	*	0.47	25.7	115	*	< 0.02	0.85	< 0.04	8	40	72	48.5	35.8
1/14/04 1:05 PM	4.00	18051 (TB7A)	12.1	7.25	10.3	97	334	*	0.48	19.1	12	*	< 0.02	0.46	< 0.04	8	40	56	55.8	34.4
1/12/04 10:15 AM	4.00	18052 (TB6R)	9.94	7.62	11.1	97	186	*	0.83	4.86	< 1	*	< 0.02	< 0.02	< 0.04	6	40	40	23.4	19.8
1/12/04 12:45 PM	4.00	18053 (TB6LN)	11.3	7.63	11.6	107	151	*	1.03	3.32	3	*	< 0.02	0.07	< 0.04	7	30	36	17	18
1/12/04 11:15 AM	4.00	15655 (TB6J)	10	7.74	12.1	108	182	*	0.9	5.32	1	*	< 0.02	0.02	< 0.04	7	30	44	17.7	31.1
1/15/04 12:00 PM	4.00	15659 (TB6K)	12	7.71	12	111	155	*	0.91	5.84	< 1	*	< 0.02	0.05	< 0.04	6	30	36	16.5	20.1
1/15/04 11:00 AM	4.00	10402 (TB6H)	12.2	7.86	11.7	109	164	*	1.8	2.58	< 1	5	< 0.02	0.08	< 0.04	6	30	36	18.2	18.7
1/12/04 1:35 PM	4.00	18054 (TB6Q)	12	7.89	11.9	110	153	*	1.35	2.28	< 1	*	< 0.02	0.1	< 0.04	6	30	36	16.6	18
1/15/04 10:25 AM	4.00	10411 (TB6F)	12.6	7.06	10.7	100	106	*	0.8	12.4	2	10	< 0.02	0.09	< 0.04	5	20	28	< 10	16
1/15/04 9:50 AM	4.00	10407 (TB6CN)	12.8	7.55	11.6	107	136	*	1.08	4.79	1	*	< 0.02	0.03	< 0.04	7	20	40	13.2	19.4
1/14/04 11:50 AM	4.00	10404 (TB6A)	13.1	8.34	12.2	114	105	*	*	1.34	6	8	< 0.02	0.06	< 0.04	6	30	32	15.7	17
1/14/04 1:35 PM	3.03	10340 (BA4)	13.1	7.08	9.89	93	331	*	0.41	18.5	33	*	< 0.02	0.1	0.06	12	50	28	13.3	83.7
1/14/04 10:55 AM	3.00	10401 (TB6S)	11.9	7.57	12	109	153	*	*	2.21	6	*	< 0.02	0.07	< 0.04	6	30	32	15.6	16.7
1/14/04 1:05 PM	3.00	10399 (SR5)	12.9	7.28	11.6	108	140	*	> 0.9	6.68	17	*	< 0.02	0.08	< 0.04	6	30	32	14.8	15.9
1/14/04 2:00 PM	3.00	10398 (SR3)	13.2	7.13	10.5	100	115	*	0.65	8.56	7	*	< 0.02	0.06	< 0.04	7	30	28	12.2	25.8
1/14/04 9:40 AM	2.05	10465 (BCC1)	10.8	6.18	11	99	31	*	0.69	12.3	35	*	< 0.02	0.09	< 0.04	9	< 10	20	< 10	< 10
1/14/04 9:00 AM	2.00	10397 (SR2)	11	6.11	10.5	95	118	*	0.46	18.3	35	*	< 0.02	0.07	< 0.04	9	20	20	11.6	14.6

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

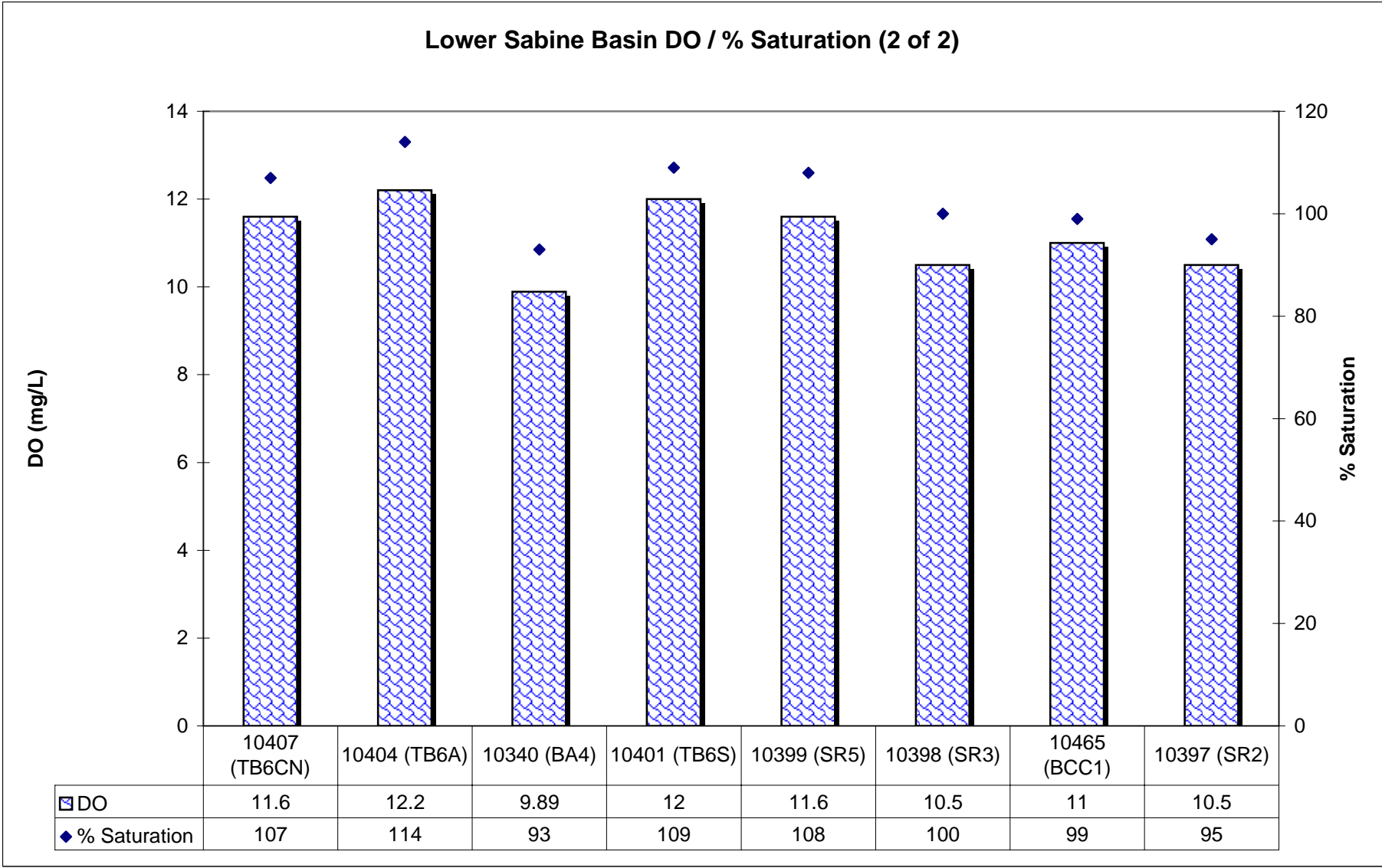
January 2004

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



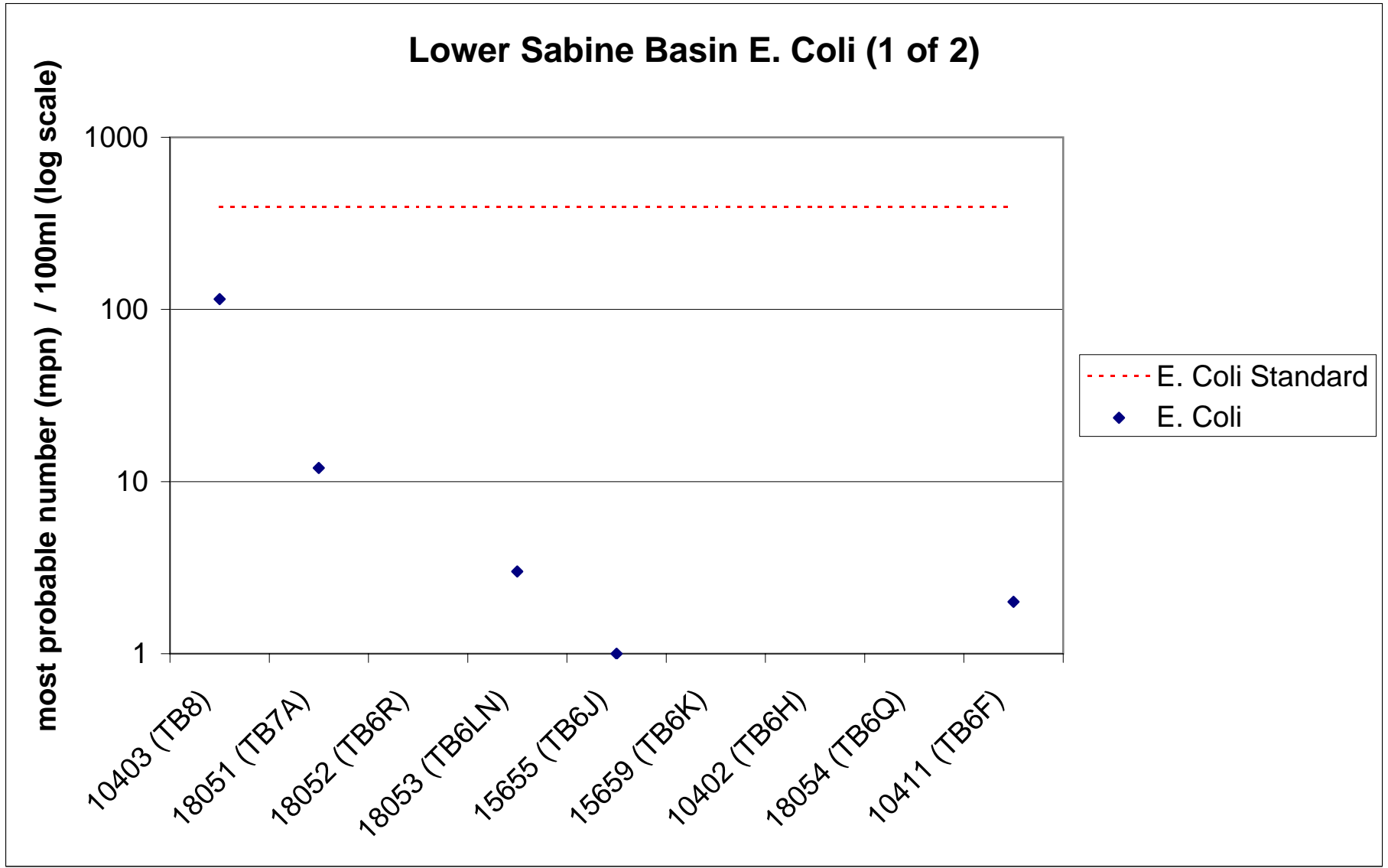
SABINE RIVER AUTHORITY OF TEXAS

January 2004



SABINE RIVER AUTHORITY OF TEXAS

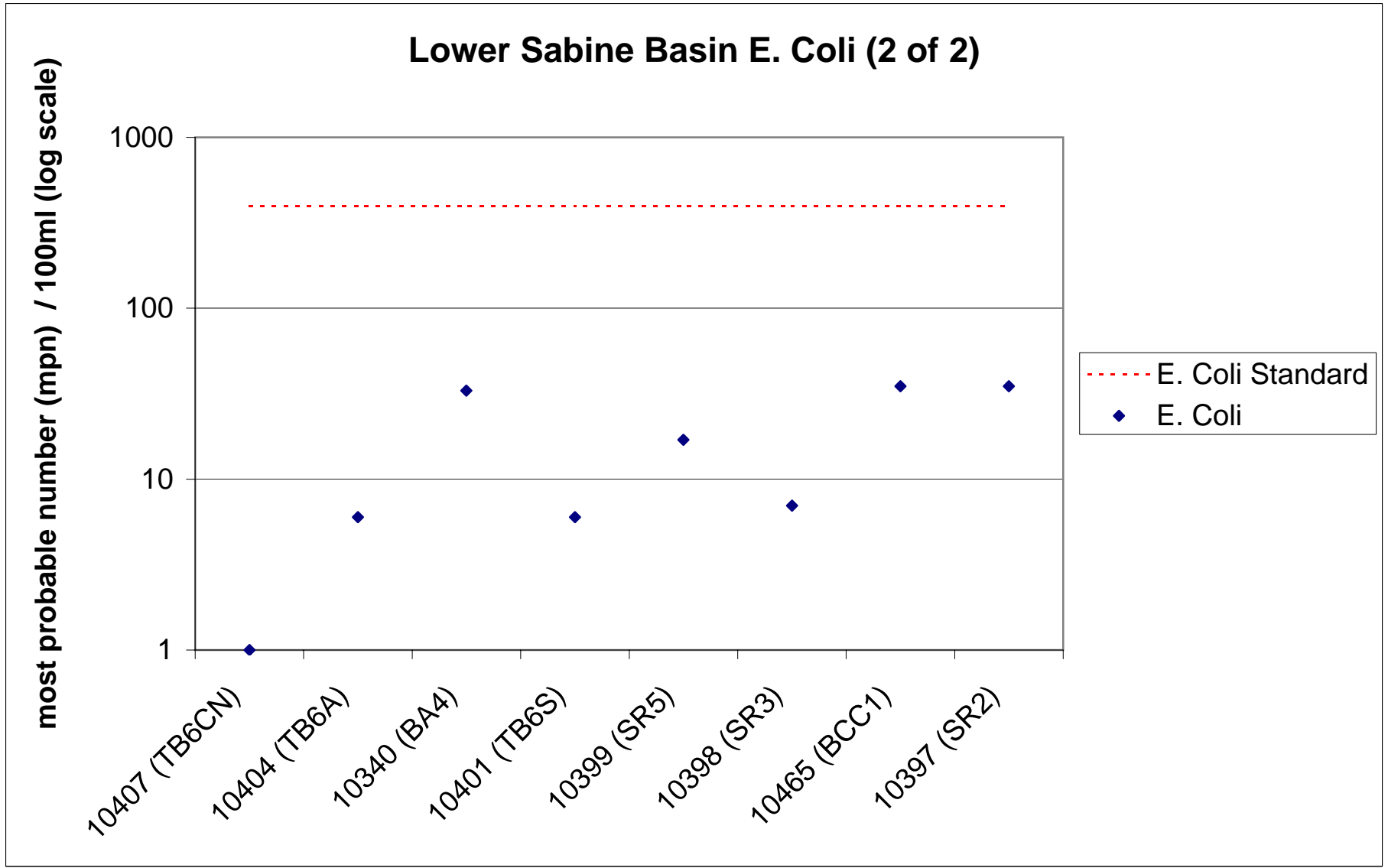
January 2004



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

SABINE RIVER AUTHORITY OF TEXAS

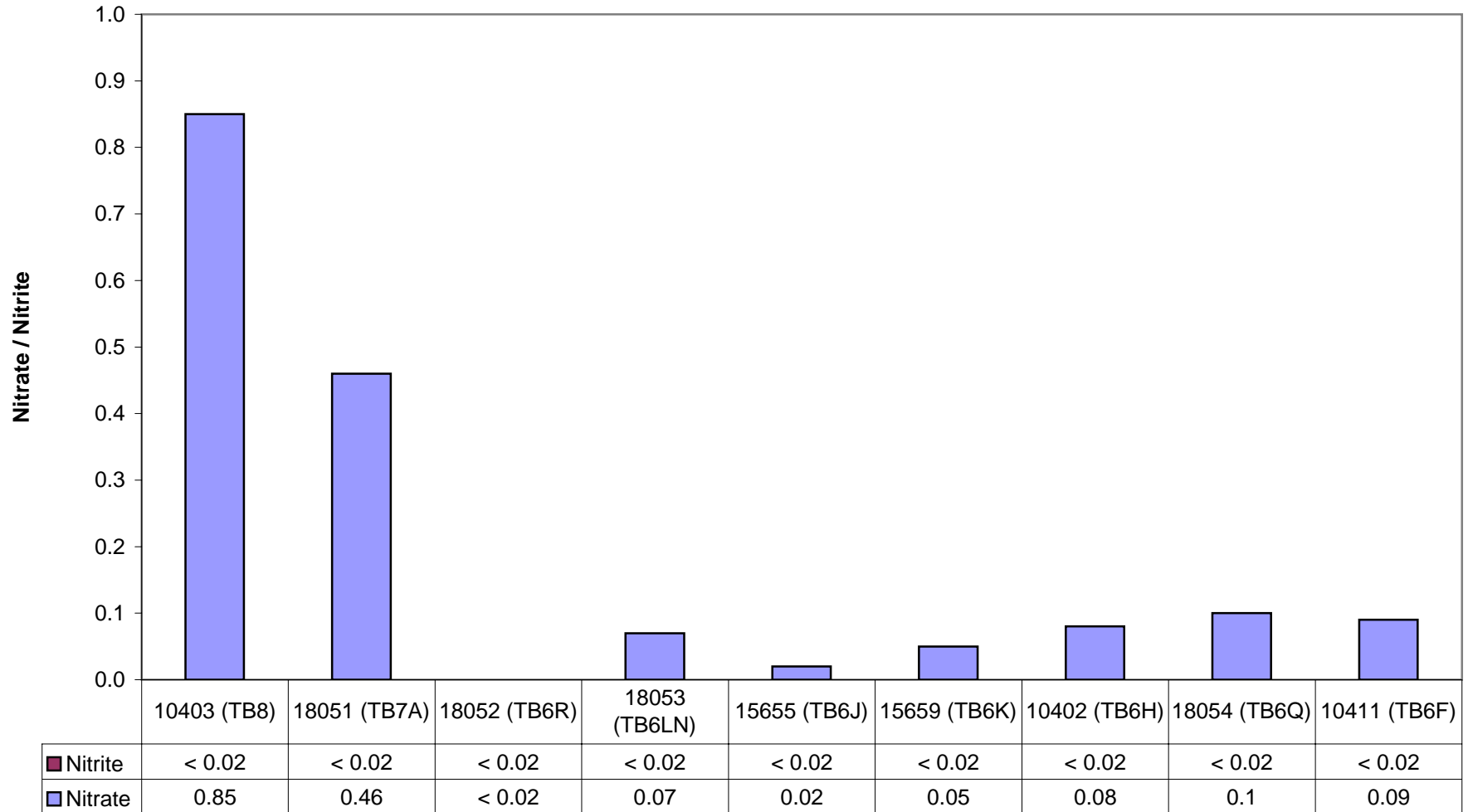
January 2004



SABINE RIVER AUTHORITY OF TEXAS

January 2004

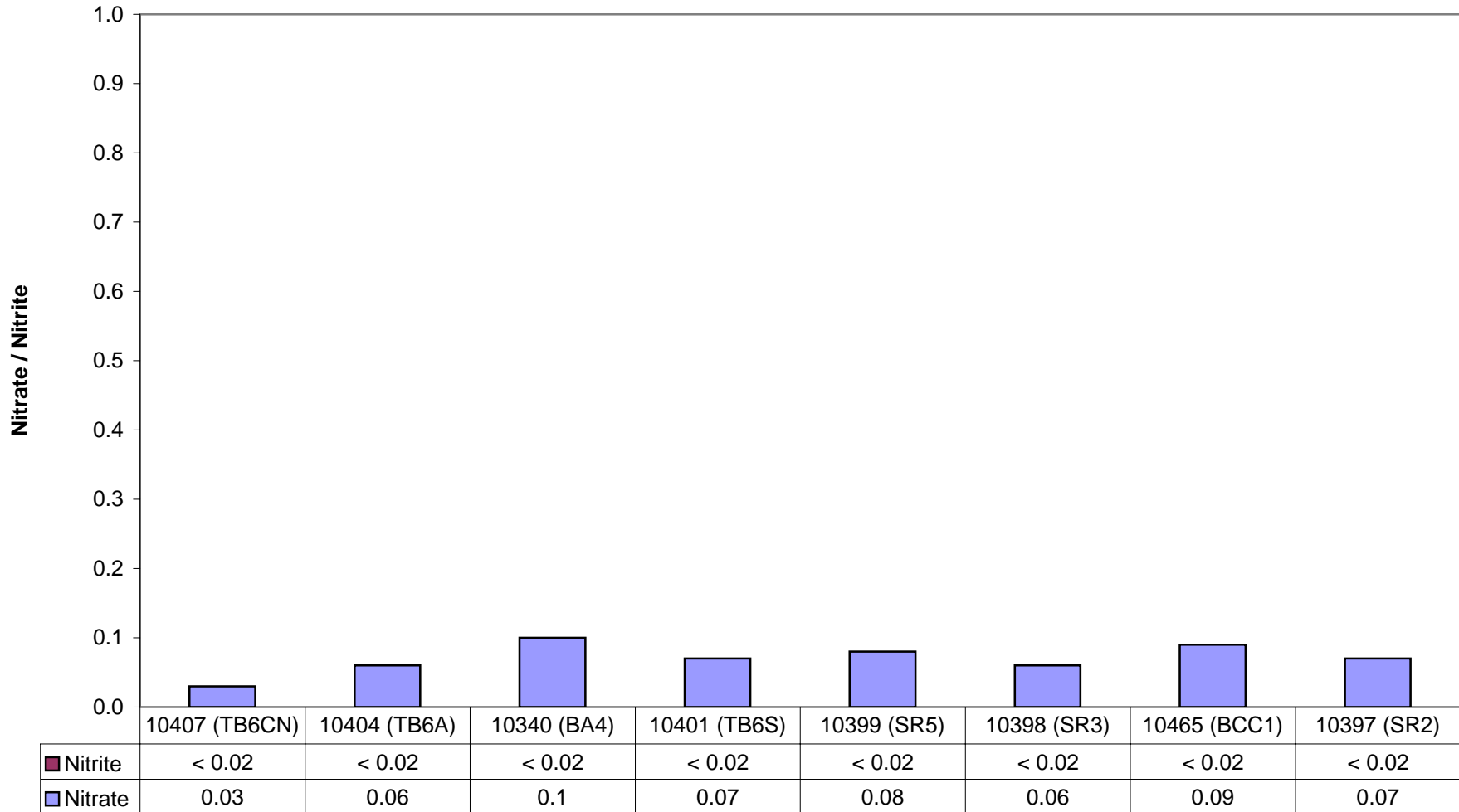
Lower Sabine Basin Nitrate / Nitrite (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

January 2004

Lower Sabine Basin Nitrate / Nitrite (2 of 2)



SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

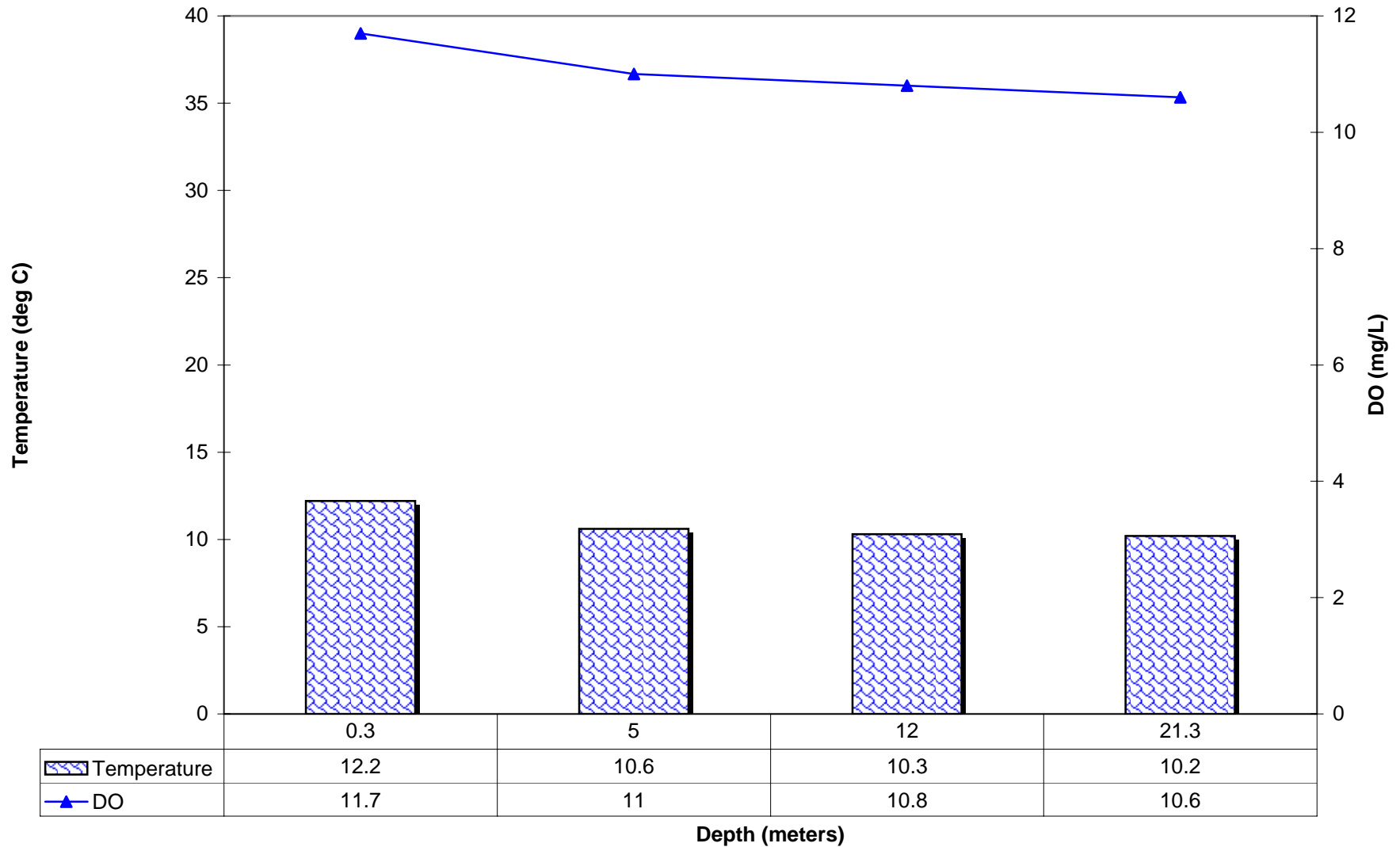
January 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094
1/14/04 12:35 PM	4.00	10403 (TB8)	0.3	10.9	7.18	11.1	103	304
			5.2	8.61	6.95	9.95	82	306
			10.5	8.6	6.92	9.82	86	301
1/14/04 1:05 PM	4.00	18051 (TB7A)	0.3	12.1	7.25	10.3	97	334
			4	8.99	6.92	8.99	79	314
			8	8.66	6.88	8.83	78	314
1/12/04 10:15 AM	4.00	18052 (TB6R)	0.3	9.94	7.62	11.1	97	186
			6	9.91	7.69	10.9	97	193
			13.6	9.89	7.59	11	95	192
1/12/04 12:45 PM	4.00	18053 (TB6LN)	0.3	11.3	7.63	11.6	107	151
			5.1	10.5	7.6	11.5	105	153
1/12/04 11:15 AM	4.00	15655 (TB6J)	0.3	10	7.74	12.1	108	182
			3.7	9.75	7.7	12.4	109	183
1/15/04 12:00 PM	4.00	15659 (TB6K)	0.3	12	7.71	12	111	155
			1.1	11.8	7.42	11.4	104	158
			4	10.9	7.05	10.4	94	158
			8.4	10.5	7.07	10.2	90	158
1/15/04 11:00 AM	4.00	10402 (TB6H)	0.3	12.2	7.86	11.7	109	164
			5	10.6	7.23	11	100	167
			12	10.3	7.1	10.8	96	167
			21.3	10.2	7.09	10.6	95	166
1/12/2004 13:35	4.00	18054 (TB6Q)	0.3	12	7.89	11.9	110	153
			7.6	11.1	7.82	12.2	110	154
1/15/2004 10:25	4.00	10411 (TB6F)	0.3	12.6	7.06	10.7	100	106
			4.2	10.6	6.79	9.5	84	112
1/15/04 9:50 AM	4.00	10407 (TB6CN)	0.3	12.8	7.55	11.6	107	136
			2.5	10.4	6.49	8.5	76	183
			5.9	9.7	6.6	6.87	59	221

SABINE RIVER AUTHORITY OF TEXAS

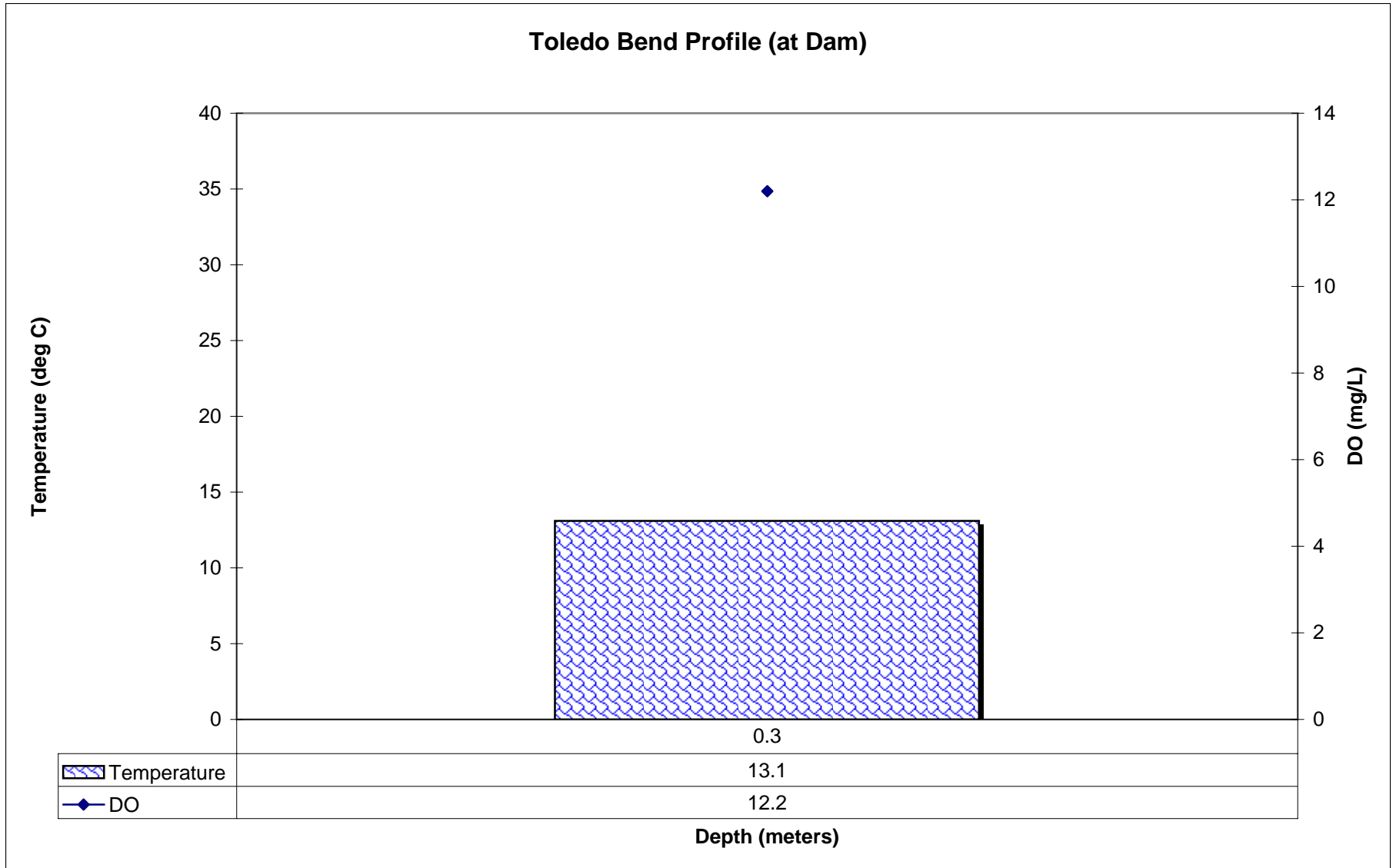
January 2004

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

January 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

January 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
1/1/2004	167.30	(4.70)	67	29	0.00	0.16	204	405	204
1/2/2004	167.40	(4.60)	70	60	0.06	0.05	1,177	2,335	204
1/3/2004	167.33	(4.67)	73	64	0.00	0.03	204	405	204
1/4/2004	167.28	(4.72)	75	64	0.00	0.09	204	405	204
1/5/2004	167.65	(4.35)	73	42	0.09	0.10	204	405	204
1/6/2004	167.55	(4.45)	47	32	0.00	0.13	204	405	204
1/7/2004	167.45	(4.55)	47	25	0.00	FZ	804	1,595	204
1/8/2004	167.33	(4.67)	47	39	0.10	NR	204	405	204
1/9/2004	167.55	(4.45)	53	43	0.55	0.12	1,154	2,289	204
1/10/2004	167.49	(4.51)	52	33	0.00	0.09	204	405	204
1/11/2004	167.46	(4.54)	51	26	0.00	0.06	204	405	204
1/12/2004	167.45	(4.55)	60	26	0.00	0.05	886	1,757	204
1/13/2004	167.48	(4.52)	65	31	0.00	0.08	204	405	204
1/14/2004	167.48	(4.52)	70	45	0.00	0.05	876	1,378	204
1/15/2004	167.52	(4.48)	70	40	0.00	0.04	204	405	204
1/16/2004	167.47	(4.53)	68	52	0.00	0.13	1,171	2,323	204
1/17/2004	167.50	(4.50)	67	53	0.77	0.09	204	405	204
1/18/2004	167.63	(4.37)	66	51	0.13	0.06	204	405	204
1/19/2004	167.82	(4.18)	55	35	0.04	0.09	838	1,662	204
1/20/2004	167.72	(4.28)	48	26	0.00	0.10	204	405	204
1/21/2004	167.76	(4.24)	49	26	0.00	0.06	204	405	204
1/22/2004	167.77	(4.23)	55	30	0.00	0.06	204	405	204
1/23/2004	167.80	(4.20)	63	30	0.00	0.07	204	405	204
1/24/2004	167.78	(4.22)	67	35	0.00	0.07	204	405	204
1/25/2004	168.08	(3.92)	68	55	1.83	NR	204	405	204
1/26/2004	168.31	(3.69)	73	48	0.00	0.16	204	405	204
1/27/2004	168.66	(3.34)	69	34	0.00	0.35	204	405	204
1/28/2004	168.63	(3.37)	43	24	0.00	FZ	2,895	5,742	204
1/29/2004	168.69	(3.31)	57	24	0.00	0.16	161	319	204
1/30/2004	169.04	(2.96)	53	40	1.40	0.25	144	286	144
1/31/2004	169.10	(2.90)	48	37	0.05	0.07	144	286	144
Avg or Tot	167.79	(4.21)	60	39	5.02	2.77	462	28,072	

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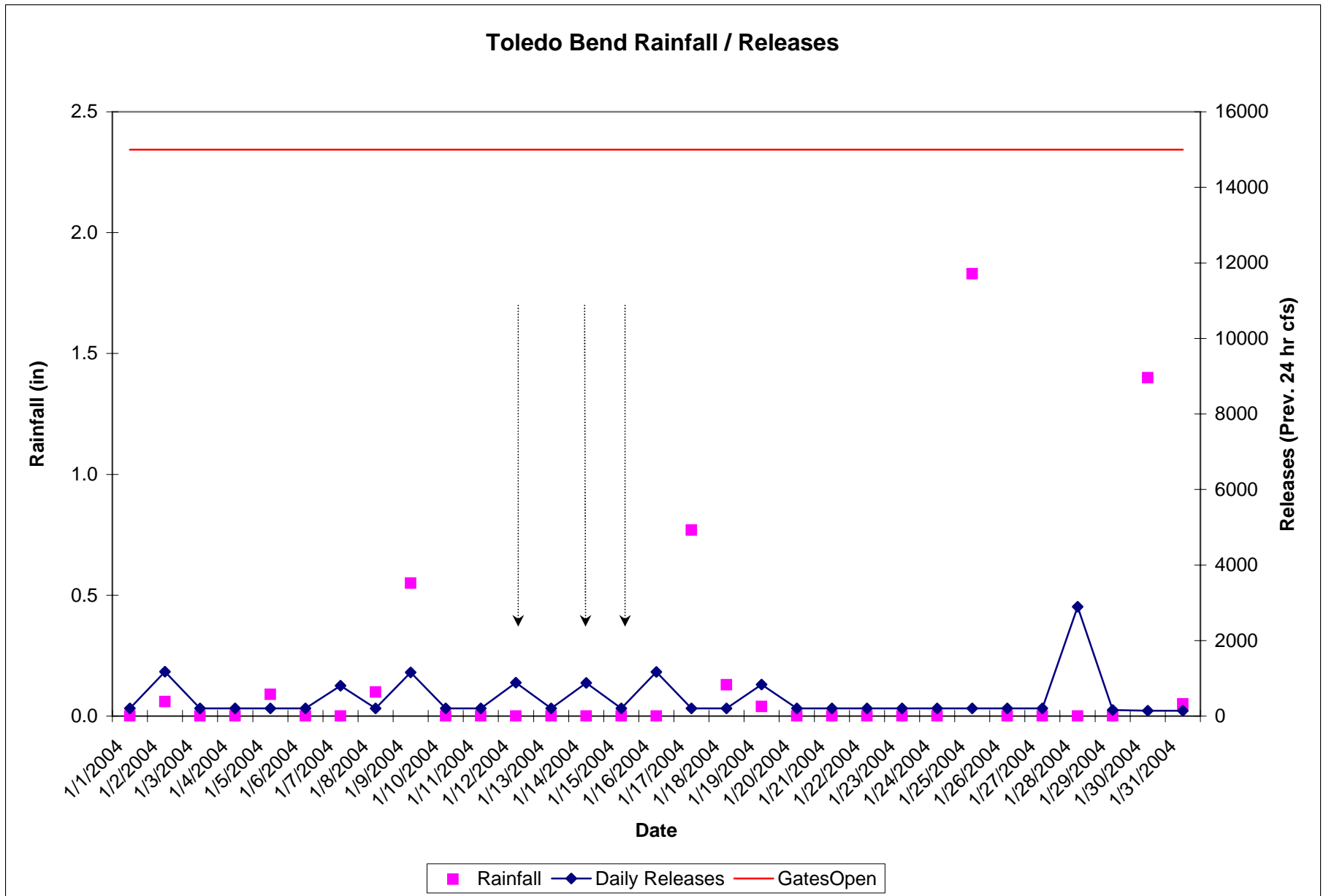
TOP: Top of Pool = 172 Feet M.S.L.

NR: No Reading
FZ: Gage Frozen

Toledo Bend Sampled on 1/12,14,15/2004

SABINE RIVER AUTHORITY OF TEXAS

January 2004



Toledo Bend sampled on 1/12,14,15/2004

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

January 2004

Date	Rainfall	Gauge Height	GH - FS	Flow
1/1/2004	0.00	13.89	(24.11)	682
1/2/2004	0.02	12.40	(25.60)	175
1/3/2004	0.00	14.33	(23.67)	890
1/4/2004	0.00	12.26	(25.74)	143
1/5/2004	0.00	12.12	(25.88)	115
1/6/2004	0.00	12.03	(25.97)	98
1/7/2004	0.04	11.99	(26.01)	91
1/8/2004	0.02	13.49	(24.51)	515
1/9/2004	0.38	12.30	(25.70)	152
1/10/2004	0.00	14.42	(23.58)	936
1/11/2004	0.00	12.37	(25.63)	168
1/12/2004	0.00	12.20	(25.80)	131
1/13/2004	0.00	13.81	(24.19)	647
1/14/2004	0.00	12.11	(25.89)	113
1/15/2004	0.00	13.73	(24.27)	613
1/16/2004	0.00	12.04	(25.96)	100
1/17/2004	0.64	14.05	(23.95)	755
1/18/2004	0.10	12.96	(25.04)	329
1/19/2004	0.03	12.72	(25.28)	257
1/20/2004	0.01	13.95	(24.05)	709
1/21/2004	0.00	12.30	(25.70)	152
1/22/2004	0.00	12.13	(25.87)	117
1/23/2004	0.00	12.06	(25.94)	104
1/24/2004	0.00	12.03	(25.97)	98
1/25/2004	1.88	14.22	(23.78)	836
1/26/2004	0.00	15.89	(22.11)	1,830
1/27/2004	0.00	14.63	(23.37)	1,040
1/28/2004	0.00	13.20	(24.80)	408
1/29/2004	0.00	14.95	(23.05)	1,230
1/30/2004	1.19	13.97	(24.03)	718
1/31/2004	0.00	15.24	(22.76)	1,400
Avg or Tot	4.31	13.22	(24.78)	502

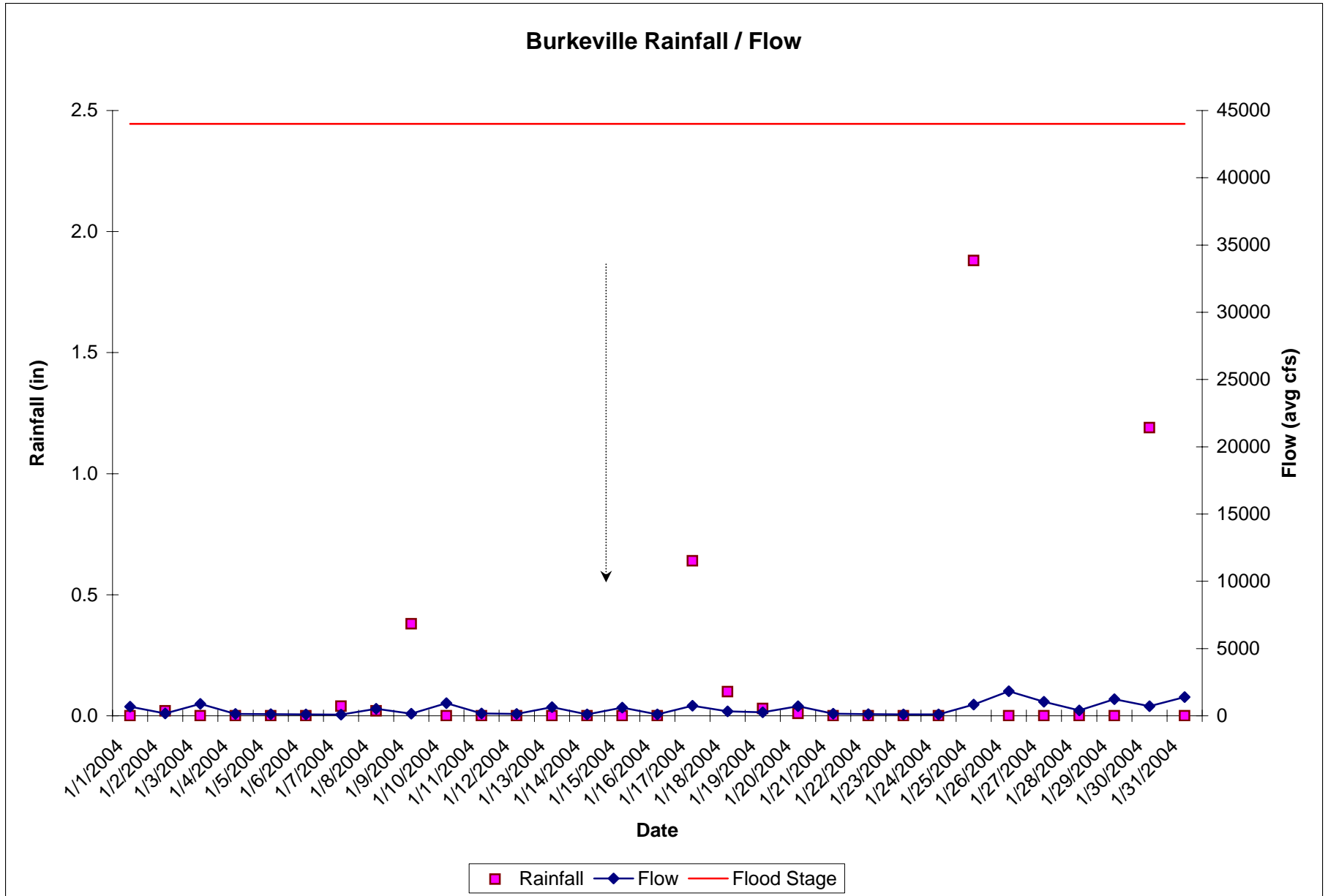
	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

Lower Sabine Basin Sampled on 1/14/2004

SABINE RIVER AUTHORITY OF TEXAS

January 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

January 2004

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
1/1/2004	15.79	(14.21)	2,650	0.00
1/2/2004	15.56	(14.44)	2,450	0.00
1/3/2004	14.52	(15.48)	1,670	0.00
1/4/2004	15.24	(14.76)	2,190	0.00
1/5/2004	14.10	(15.90)	1,400	0.02
1/6/2004	13.74	(16.26)	1,190	0.00
1/7/2004	13.58	(16.42)	1,100	0.00
1/8/2004	13.44	(16.56)	1,020	0.02
1/9/2004	14.38	(15.62)	1,580	0.45
1/10/2004	14.28	(15.72)	1,510	0.00
1/11/2004	15.14	(14.86)	2,110	0.00
1/12/2004	14.06	(15.94)	1,380	0.00
1/13/2004	13.71	(16.29)	1,170	0.00
1/14/2004	14.49	(15.51)	1,650	0.00
1/15/2004	13.58	(16.42)	1,100	0.00
1/16/2004	14.32	(15.68)	1,540	0.00
1/17/2004	13.56	(16.44)	1,090	0.58
1/18/2004	16.60	(13.40)	3,400	0.66
1/19/2004	16.81	(13.19)	3,610	0.00
1/20/2004	15.52	(14.48)	2,420	0.00
1/21/2004	15.36	(14.64)	2,280	0.00
1/22/2004	14.31	(15.69)	1,530	0.00
1/23/2004	13.90	(16.10)	1,280	0.00
1/24/2004	13.67	(16.33)	1,150	0.00
1/25/2004	14.24	(15.76)	1,490	0.83
1/26/2004	21.44	(8.56)	9,670	0.00
1/27/2004	20.17	(9.83)	7,750	0.00
1/28/2004	18.57	(11.43)	5,590	0.00
1/29/2004	17.32	(12.68)	4,140	0.00
1/30/2004	17.42	(12.58)	4,250	0.27
1/31/2004	19.88	(10.12)	7,330	0.00
Avg or Tot	15.44	(14.56)	2,667	2.83

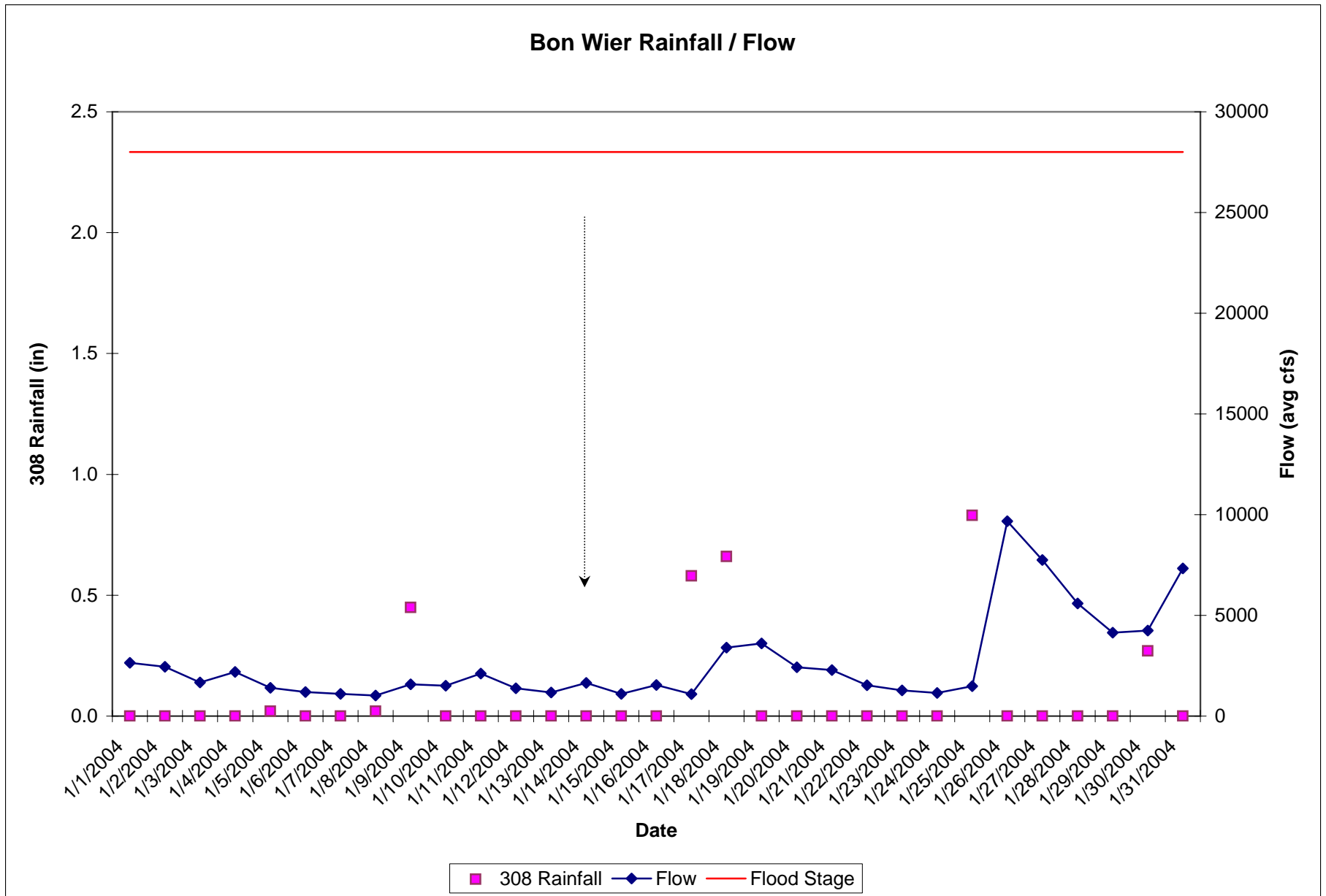
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 1/14/2004

SABINE RIVER AUTHORITY OF TEXAS

January 2004



Lower Sabine Basin sampled on 1/14/2004

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

January 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	Flow avg	309 Rainfall
1/1/2004	21.54	(2.46)	6,770	13,428	6,770	0.00
1/2/2004	21.54	(2.46)	6,770	13,428	6,770	0.00
1/3/2004	20.86	(3.14)	5,760	11,425	6,433	0.01
1/4/2004	19.85	(4.15)	4,440	8,807	5,935	0.00
1/5/2004	19.24	(4.76)	3,860	7,656	5,520	0.00
1/6/2004	18.58	(5.42)	3,310	6,565	5,152	0.00
1/7/2004	17.67	(6.33)	2,720	5,395	4,804	0.00
1/8/2004	17.06	(6.94)	2,350	4,661	4,498	0.00
1/9/2004	16.96	(7.04)	2,300	4,562	4,253	0.00
1/10/2004	17.57	(6.43)	2,650	5,256	4,093	0.00
1/11/2004	18.28	(5.72)	3,100	6,149	4,003	0.00
1/12/2004	18.74	(5.26)	3,420	6,783	4,234	0.00
1/13/2004	18.38	(5.62)	3,170	6,287	4,392	0.00
1/14/2004	17.60	(6.40)	2,670	5,295	4,269	0.01
1/15/2004	17.40	(6.60)	2,550	5,058	4,154	0.00
1/16/2004	17.19	(6.81)	2,430	4,819	4,046	0.00
1/17/2004	17.23	(6.77)	2,450	4,860	3,953	0.04
1/18/2004	20.25	(3.75)	4,940	9,798	4,008	0.00
1/19/2004	22.18	(1.82)	8,030	15,927	4,220	0.00
1/20/2004	23.01	(0.99)	10,600	21,025	4,539	0.00
1/21/2004	23.00	(1.00)	10,600	21,025	4,827	0.00
1/22/2004	22.34	(1.66)	8,430	16,721	4,991	0.00
1/23/2004	21.30	(2.70)	6,390	12,674	5,052	0.00
1/24/2004	19.81	(4.19)	4,400	8,727	5,025	0.00
1/25/2004	19.31	(4.69)	3,900	7,736	4,980	0.01
1/26/2004	21.41	(2.59)	6,560	13,012	5,040	0.00
1/27/2004	22.76	(1.24)	9,710	19,260	5,213	0.00
1/28/2004	22.42	(1.58)	8,640	17,137	5,336	0.00
1/29/2004	23.56	(0.44)	13,800	27,372	5,628	0.00
1/30/2004	23.62	(0.38)	14,300	28,364	5,917	OUT
1/31/2004	23.57	(0.43)	13,900	2,757	6,174	OUT
Avg or Tot	20.14	(3.86)	5,965	341,969		0.07

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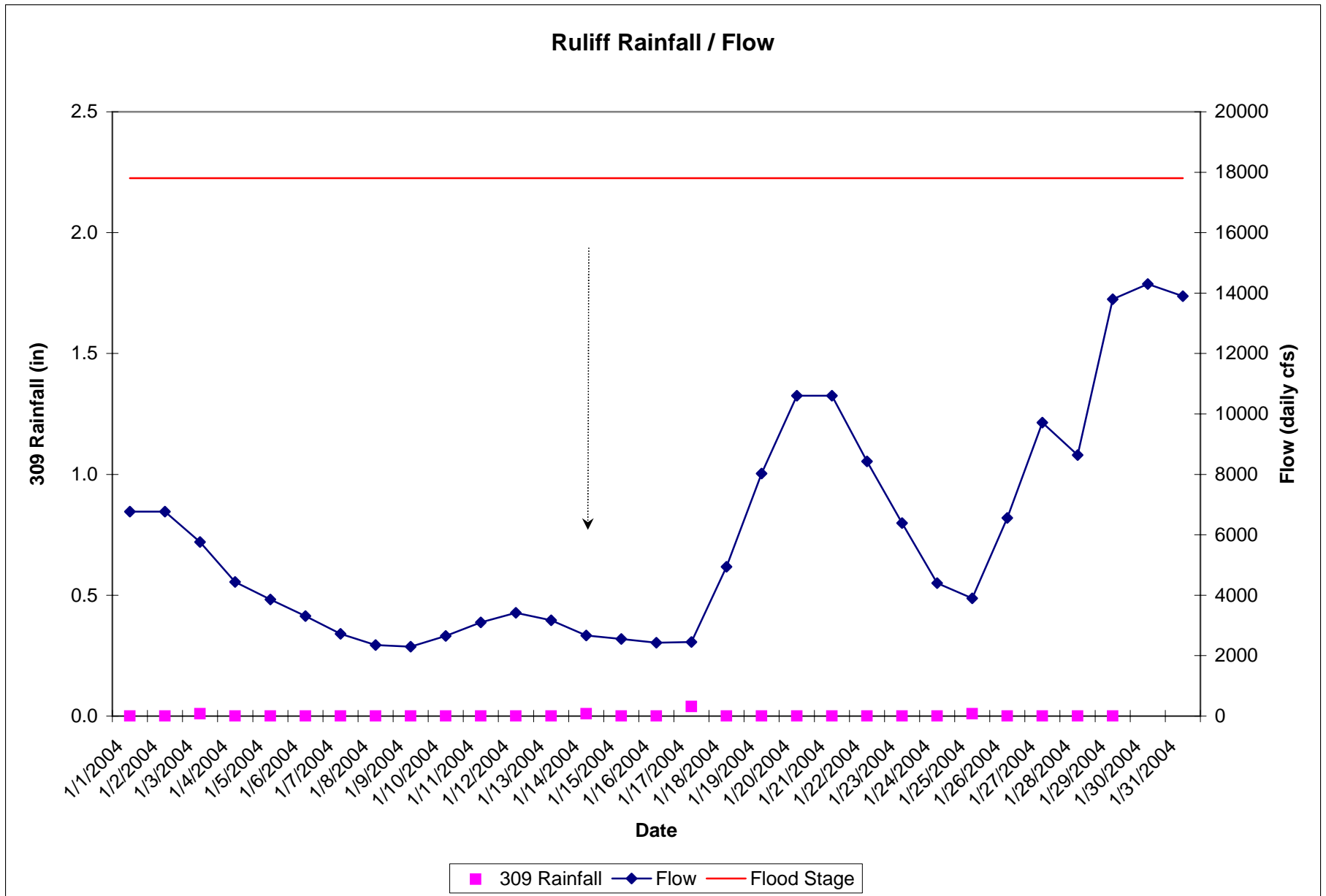
FS: Flood Stage 24 feet with 10 foot datum

OUT: Gage Out

Lower Sabine Basin Sampled on 1/14/2004

SABINE RIVER AUTHORITY OF TEXAS

January 2004



Lower Sabine Basin sampled on 1/14/2004

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

January 2004

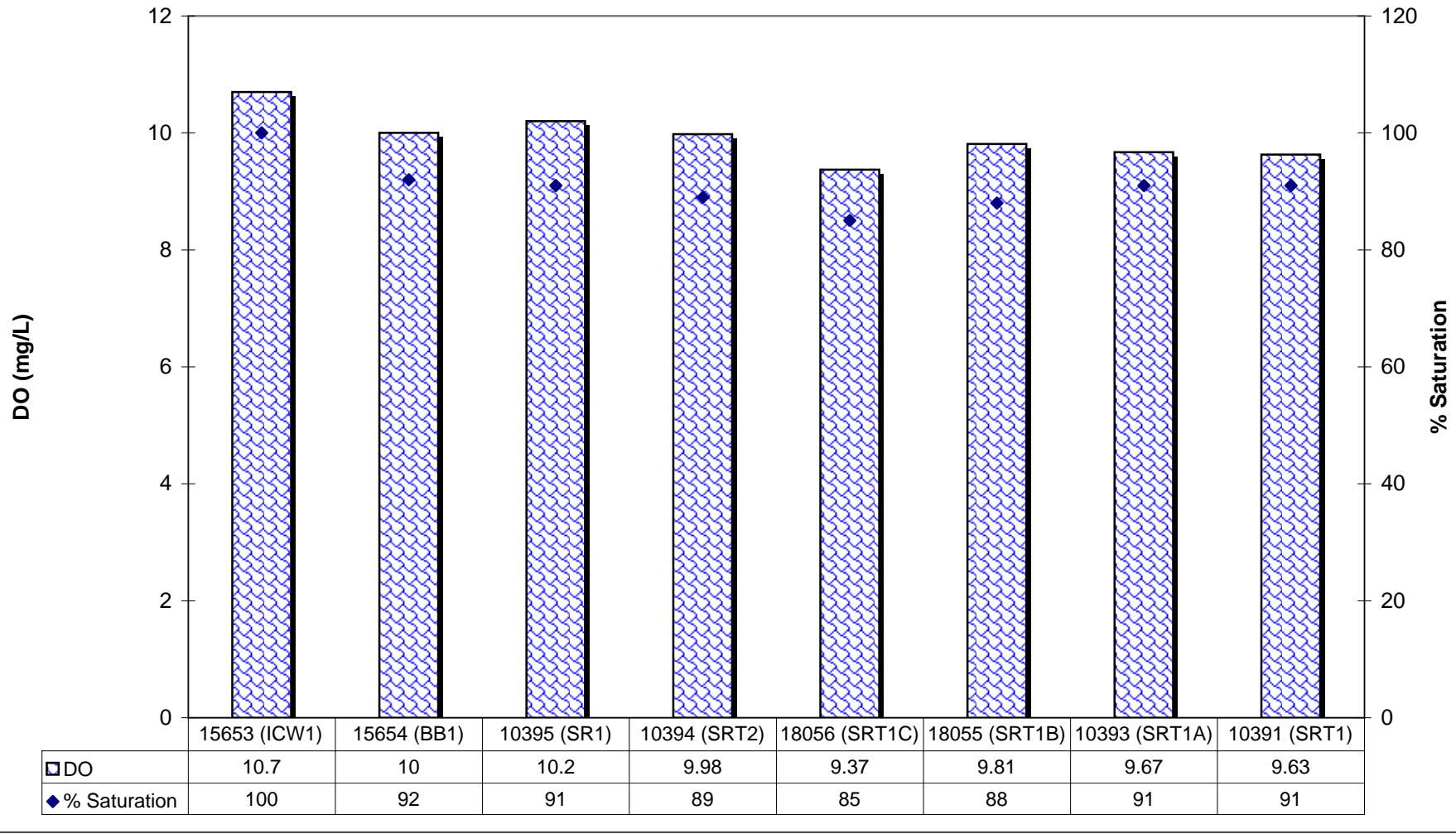
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
1/13/04 1:35 PM	1.05	15653 (ICW1)	11.6	7.3	10.7	100	6300	3	0.41	16.6	*	54	*	< 0.02	0.05	< 0.04	5	40	692
1/13/04 2:15 PM	1.01	15654 (BB1)	12.7	7.34	10	92	3190	2	0.29	20	*	15	*	< 0.02	0.1	< 0.04	12	40	320
1/13/04 12:42 PM	1.00	10395 (SR1)	10.7	6.83	10.2	91	143	*	0.39	23.8	86	*	*	< 0.02	0.06	0.07	9	20	20
1/13/04 1:05 PM	1.00	10394 (SRT2)	11	7.05	9.98	89	366	< 1	0.37	20.8	*	18	*	< 0.02	0.06	< 0.04	8	20	44
1/13/04 1:20 PM	1.00	18056 (SRT1C)	11.2	6.93	9.37	85	1278	< 1	0.39	18	*	17	*	< 0.02	0.06	0.06	7	30	132
1/13/04 1:50 PM	1.00	18055 (SRT1B)	11.6	6.91	9.81	88	3140	2	0.56	15.8	*	7	*	< 0.02	0.06	< 0.04	7	30	220
1/13/04 2:00 PM	1.00	10393 (SRT1A)	12.8	7.03	9.67	91	3680	2	0.5	15.3	*	23	*	< 0.02	0.06	< 0.04	6	30	368
1/13/04 2:25 PM	1.00	10391 (SRT1)	12.8	7.15	9.63	91	5780	3	0.45	15.3	*	49	*	< 0.02	0.06	0.06	5	40	624

*: Not sampled on this run

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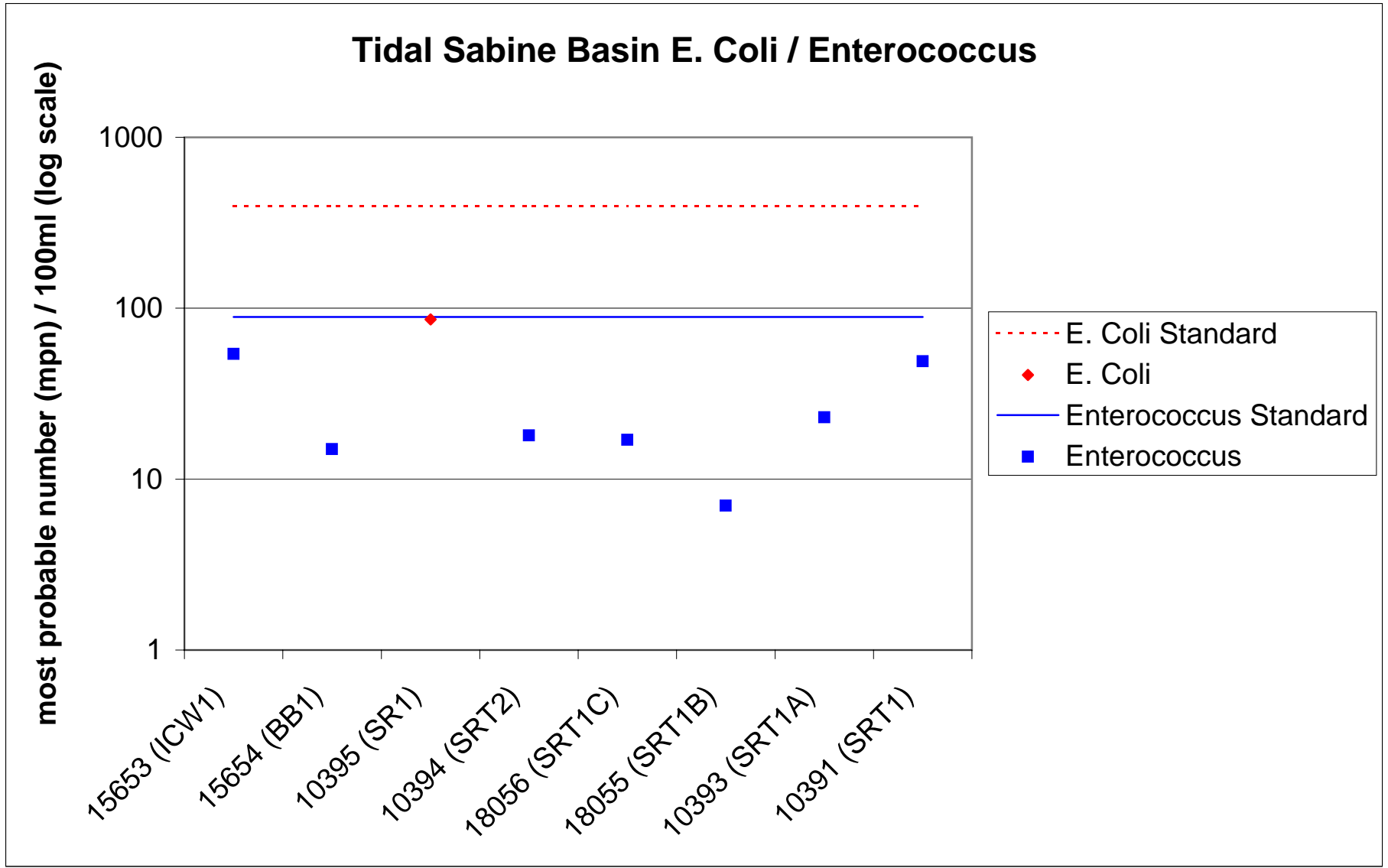
January 2004

Tidal Sabine Basin DO / % Saturation



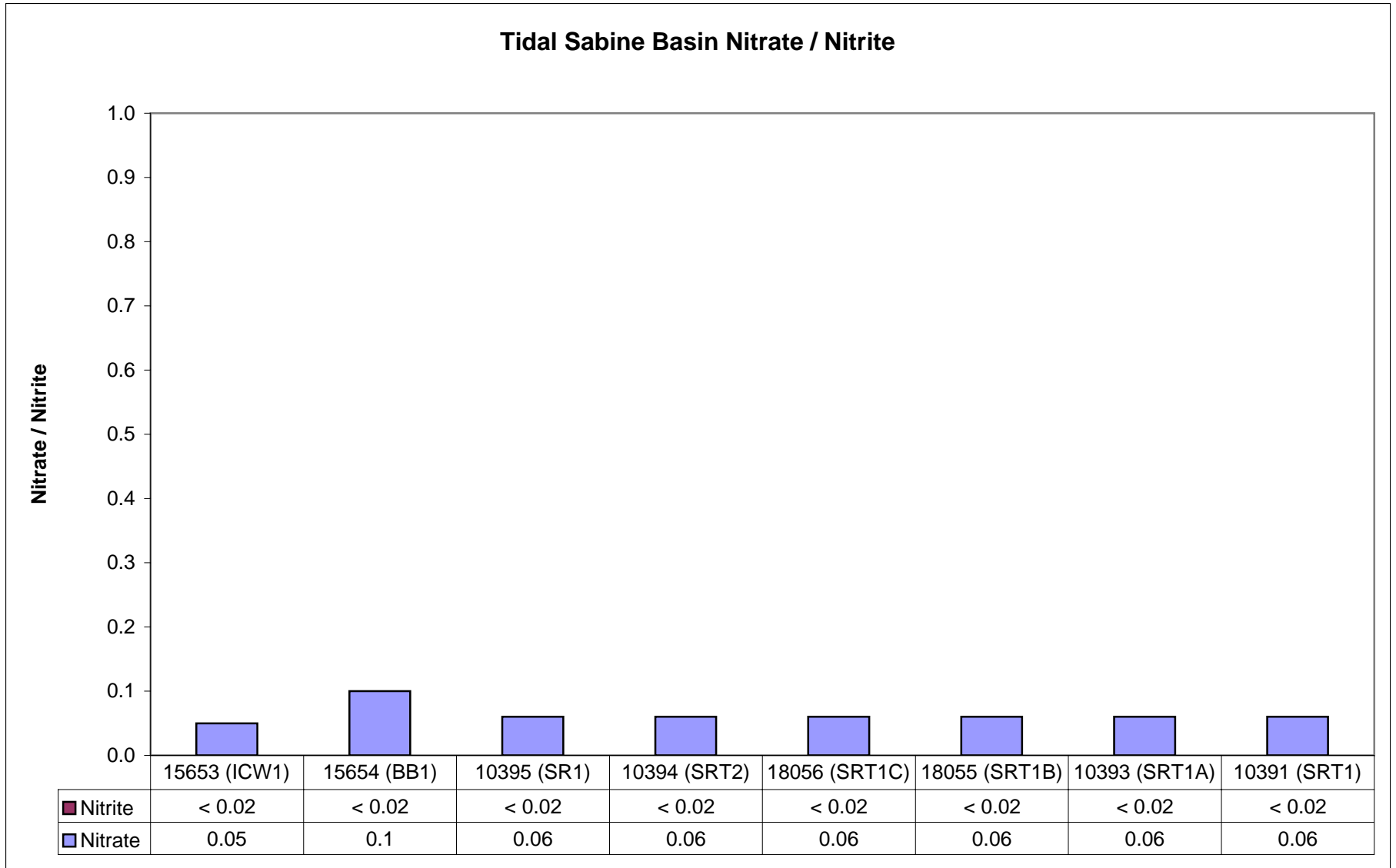
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SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

January 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
1/13/04 1:35 PM	1.05	15653 (ICW1)	0.3	11.6	7.3	10.7	100	6300	3
			5.6	11.5	7.25	10.4	97	6280	3
1/13/04 2:15 PM	1.01	15654 (BB1)	0.3	12.7	7.34	10	92	3190	2
			6	12.6	7.26	9.48	90	3210	2
1/13/04 1:05 PM	1.00	10394 (SRT2)	0.3	11	7.05	9.98	89	366	< 1
			5	10.8	7.05	9.38	85	966	< 1
			7.4	13.6	6.8	6.73	67	14460	9
1/13/04 1:20 PM	1.00	18056 (SRT1C)	0.3	11.2	6.93	9.37	85	1278	< 1
			5	12.2	7.21	7.97	81	10430	6
			11.5	13.2	7.36	6.67	70	20230	13
1/13/04 1:50 PM	1.00	18055 (SRT1B)	0.3	11.6	6.91	9.81	88	3140	2
			4.5	12.1	7.27	8.57	83	9660	6
			7.8	12.4	7.57	7.9	80	19680	12
1/13/04 2:00 PM	1.00	10393 (SRT1A)	0.3	12.8	7.03	9.67	91	3680	2
			4.5	11.9	7.24	8.84	86	10720	6
			7.2	11.9	7.74	8.82	88	19340	11
1/13/04 2:25 PM	1.00	10391 (SRT1)	0.3	12.8	7.15	9.63	91	5780	3
			4.5	12	7.39	8.97	86	12000	7
			8.9	12.1	7.87	8.82	91	23080	14

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

January 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
1/1/2004	OUT	OUT	OUT	70	35	62	0.00
1/2/2004	OUT	OUT	OUT	69	61	66	0.00
1/3/2004	OUT	OUT	OUT	72	66	66	0.00
1/4/2004	OUT	OUT	OUT	75	66	68	0.00
1/5/2004	OUT	OUT	OUT	75	47	47	0.25
1/6/2004	OUT	OUT	OUT	51	35	35	0.00
1/7/2004	OUT	OUT	OUT	48	33	33	0.00
1/8/2004	OUT	OUT	OUT	44	33	41	0.22
1/9/2004	OUT	OUT	OUT	55	41	46	0.67
1/10/2004	OUT	OUT	OUT	59	36	36	0.00
1/11/2004	OUT	OUT	OUT	55	29	30	0.00
1/12/2004	OUT	OUT	OUT	57	29	36	0.00
1/13/2004	OUT	OUT	OUT	64	36	47	0.00
1/14/2004	OUT	OUT	OUT	71	47	54	0.00
1/15/2004	OUT	OUT	OUT	72	57	54	0.00
1/16/2004	OUT	OUT	OUT	67	56	56	0.00
1/17/2004	OUT	OUT	OUT	65	57	61	2.00
1/18/2004	OUT	OUT	OUT	66	49	50	1.52
1/19/2004	OUT	OUT	OUT	54	37	37	0.00
1/20/2004	OUT	OUT	OUT	52	31	31	0.03
1/21/2004	OUT	OUT	OUT	51	30	32	0.00
1/22/2004	OUT	OUT	OUT	58	32	35	0.00
1/23/2004	OUT	OUT	OUT	57	34	45	0.00
1/24/2004	OUT	OUT	OUT	62	45	55	0.00
1/25/2004	OUT	OUT	OUT	66	36	60	1.45
1/26/2004	OUT	OUT	OUT	75	52	53	0.01
1/27/2004	OUT	OUT	OUT	72	34	34	0.00
1/28/2004	OUT	OUT	OUT	49	28	28	0.00
1/29/2004	OUT	OUT	OUT	56	29	44	0.00
1/30/2004	OUT	OUT	OUT	57	44	53	2.45
1/31/2004	OUT	OUT	OUT	53	40	41	0.03
Avg or Tot	OUT	OUT	OUT	61	41	46	8.63

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

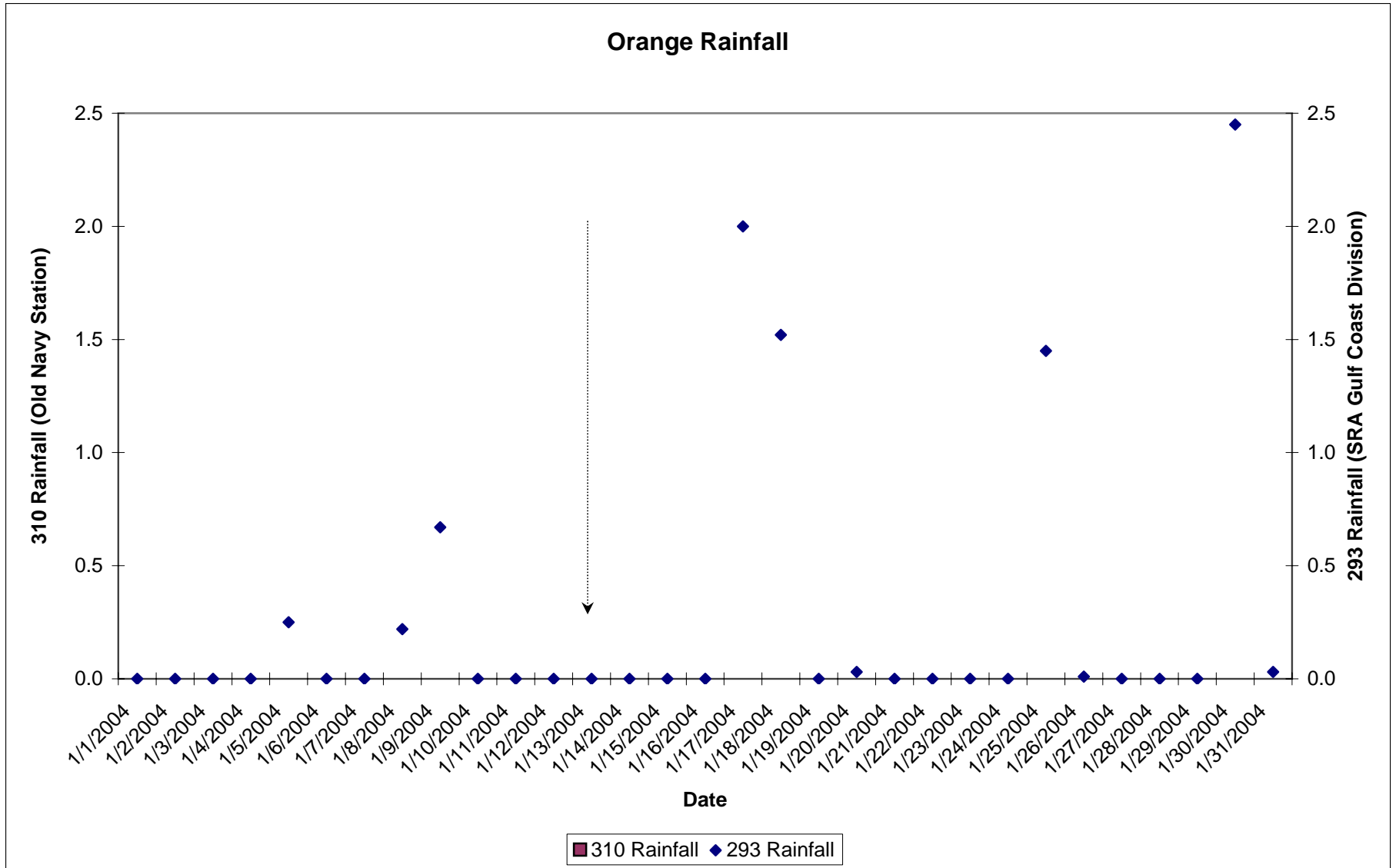
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 1/13/2004

SABINE RIVER AUTHORITY OF TEXAS

January 2004



Tidal Sabine Basin Sampled on 1/14/2004