
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for August 2004. Water quality sampling was performed August 9th through August 12th. Recent weather (previous seven days) in the Sabine River Basin was warm, with daytime high air temperatures from the mid 80s to the low 100s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the upper 80s to the upper 90s. Lows ranged from the mid 60s to the upper 70s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the mid 60s to the mid 80s. Lake Tawakoni and Lake Fork exhibited thermal stratification. During the 28 days prior to the August sample run, the Upper Basin received 2.93 and 4.72 inches of rainfall as recorded at Lake Tawakoni and Lake Fork, respectively. The week prior to the sample run, Lake Tawakoni received a tenth of an inch of rain and Lake Fork received no rain. Toledo Bend and Orange received 1.17 and 1.84 inches, respectively, during the 28 days preceding the sample run.

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

For the August sample run, most water quality parameter measurements at Upper Basin sites were consistent with water of high quality. The level of Lake Fork was recorded at 402.37 feet msl with 64 cfs releases and the level of Lake Tawakoni was recorded at 437.12 feet msl with 5 cfs releases at the time of sampling. LT23D did not meet the stream standards numeric criteria for pH. This site along with LT23A, LT23C, LF2, LF3, LF4, SR19 and SR10 also had high levels of dissolved oxygen with greater than 100 percent dissolved oxygen saturation. Elevated dissolved oxygen levels with greater than 100 percent dissolved oxygen saturation indicate algal bloom conditions. These conditions may also lead to elevated pH levels. No sites exceeded the stream standards numeric criteria for *E. coli*.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The August monthly sampling results were indicative of water of high quality at most sites. No rainfall was measured during the seven days prior to sampling. The level of Toledo Bend Reservoir was recorded at 170.50 feet msl with 204 cfs discharge at the time of sampling. All reservoir stations were stratified, with pH and dissolved oxygen differences throughout the water column as well as anoxic conditions at the deepest depths. Station TB6R had elevated pH and dissolved oxygen percent saturation indicating an algal bloom.

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 received trace amounts of rainfall during the week prior to the sample run. All of the sites in this section of the Basin showed some stratification, with one site showing anoxic conditions at its deepest depths. Surface salinities were found at all but two tidal stations. The highest salinity value of 15 ppt was found at station SRT1C at a depth of 11.2 meters. All the parameters measured in the tidal section of the Basin were within stream standard criteria.

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

August 2004

Table of Contents

Upper Sabine Basin

FY2004 Fixed Monitoring Stations.....	1
Surface Report.....	2
Profile Report	9
<i>Lake Tawakoni (near the dam)</i>	10
<i>Lake Fork (near the dam)</i>	11
Weather, River, and Reservoir Data.....	12
<i>Lake Tawakoni</i>	12
<i>Lake Fork</i>	14

Lower Sabine Basin

FY2004 Fixed Monitoring Stations.....	17
Surface Report.....	18
Profile Report	25
<i>Toledo Bend (at Pendleton Bridge)</i>	26
<i>Toledo Bend (above the dam)</i>	27
Weather, River, and Reservoir Data.....	28
<i>Toledo Bend</i>	28
<i>Burkeville</i>	30
<i>Bon Wier</i>	32
<i>Ruliff</i>	34

Tidal Sabine Basin

FY2004 Fixed Monitoring Stations.....	37
Surface Report.....	38
Profile Report	42
Weather, River, and Reservoir Data.....	43
<i>Orange</i>	43

Appendix

FY2004 Fixed Monitoring Station Maps	
Upper Basin	45
Lower Basin	46

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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

SABINE RIVER AUTHORITY OF TEXAS

Upper Sabine Basin Report

August 2004

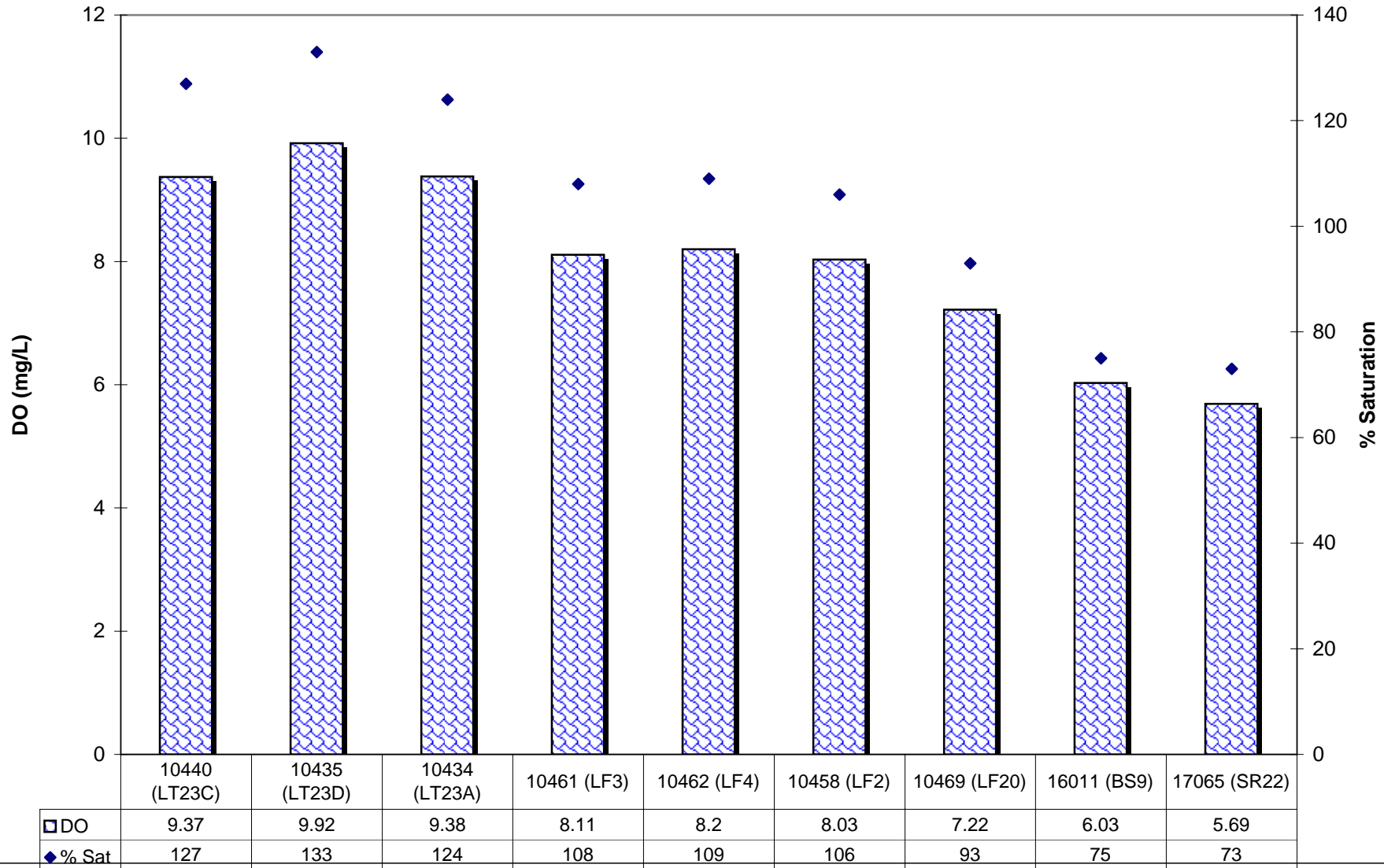
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	E. coli mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
8/10/04 11:11 AM	7.00	10440 (LT23C)	30.6	9	9.37	127	177	*	0.54	7.79	1	*	< 0.02	< 0.02	< 0.04	7	*	*	< 10	< 10
8/10/04 10:30 AM	7.00	10435 (LT23D)	29.8	9.09	9.92	133	179	*	*	7.08	1	*	< 0.02	< 0.02	< 0.04	8	*	*	< 10	< 10
8/10/04 9:39 AM	7.00	10434 (LT23A)	28.9	8.94	9.38	124	181	*	0.83	3.64	< 1	*	< 0.02	< 0.02	< 0.04	7	*	*	< 10	< 10
8/10/04 8:27 AM	6.12	10461 (LF3)	29.2	8.73	8.11	108	169	*	1.08	2.87	< 1	*	< 0.02	< 0.02	< 0.04	7	*	*	14.8	17.4
8/10/04 8:47 AM	6.12	10462 (LF4)	29.2	8.86	8.2	109	166	*	1.23	2.69	1	*	< 0.02	< 0.02	< 0.04	7	*	*	14.1	18.5
8/10/04 7:51 AM	6.12	10458 (LF2)	29.2	8.67	8.03	106	166	*	1.39	2.26	< 1	*	< 0.02	< 0.02	< 0.04	7	*	*	14.4	18.7
8/10/04 1:19 PM	6.10	10469 (LF20)	27.8	7.21	7.22	93	188	*	0.35	24.7	32	*	< 0.02	0.06	< 0.04	6	*	*	19.3	21.5
8/11/04 6:34 AM	6.02	16011 (BS9)	25.3	6.74	6.03	75	133	*	0.81	7.28	70	*	< 0.02	0.12	< 0.04	5	*	*	18	< 10
8/10/04 12:16 PM	6.00	17065 (SR22)	27.4	7.36	5.69	73	246	*	0.29	42.5	20	*	< 0.02	< 0.02	0.06	7	*	*	15.2	20.7
8/10/04 12:53 PM	6.00	10430 (SR21)	27.5	7.22	6.2	80	360	*	0.23	66.2	22	*	< 0.02	< 0.02	0.04	8	*	*	42.3	43.9
8/10/04 1:39 PM	6.00	10429 (SR19)	28.7	7.49	8.16	107	232	*	0.3	39.5	10	*	< 0.02	< 0.02	< 0.04	7	*	*	25.3	24.7
8/11/04 7:03 AM	5.00	10428 (SR17)	28.5	7.14	6.48	85	216	*	0.31	41.4	10	*	< 0.02	< 0.02	< 0.04	7	*	*	25.4	22.2
8/11/04 7:30 AM	5.00	10427 (SR16)	28.2	6.98	5.94	77	226	*	0.25	49.1	5	*	< 0.02	0.02	< 0.04	8	*	*	29.4	21
8/11/04 7:59 AM	5.00	10426 (SR15)	28.6	6.99	6.38	84	228	*	0.3	42.9	7	*	< 0.02	< 0.02	< 0.04	9	*	*	30	21
8/11/04 8:24 AM	5.00	10423 (SR14)	28.3	7.04	6.53	85	253	*	0.29	40.5	10	*	< 0.02	1.03	0.13	8	*	*	30.5	22.8
8/11/04 9:41 AM	5.00	13628 (SR11)	29.5	7.25	6.51	87	383	*	0.28	44	11	*	0.02	0.92	< 0.04	9	*	*	49.4	44.2
8/11/04 10:24 AM	5.00	10415 (SR10)	29.4	7.75	8.37	111	323	*	0.28	41	5	*	< 0.02	< 0.02	< 0.04	8	60	76	36.9	34.1

*: Not sampled on this run

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August 2004

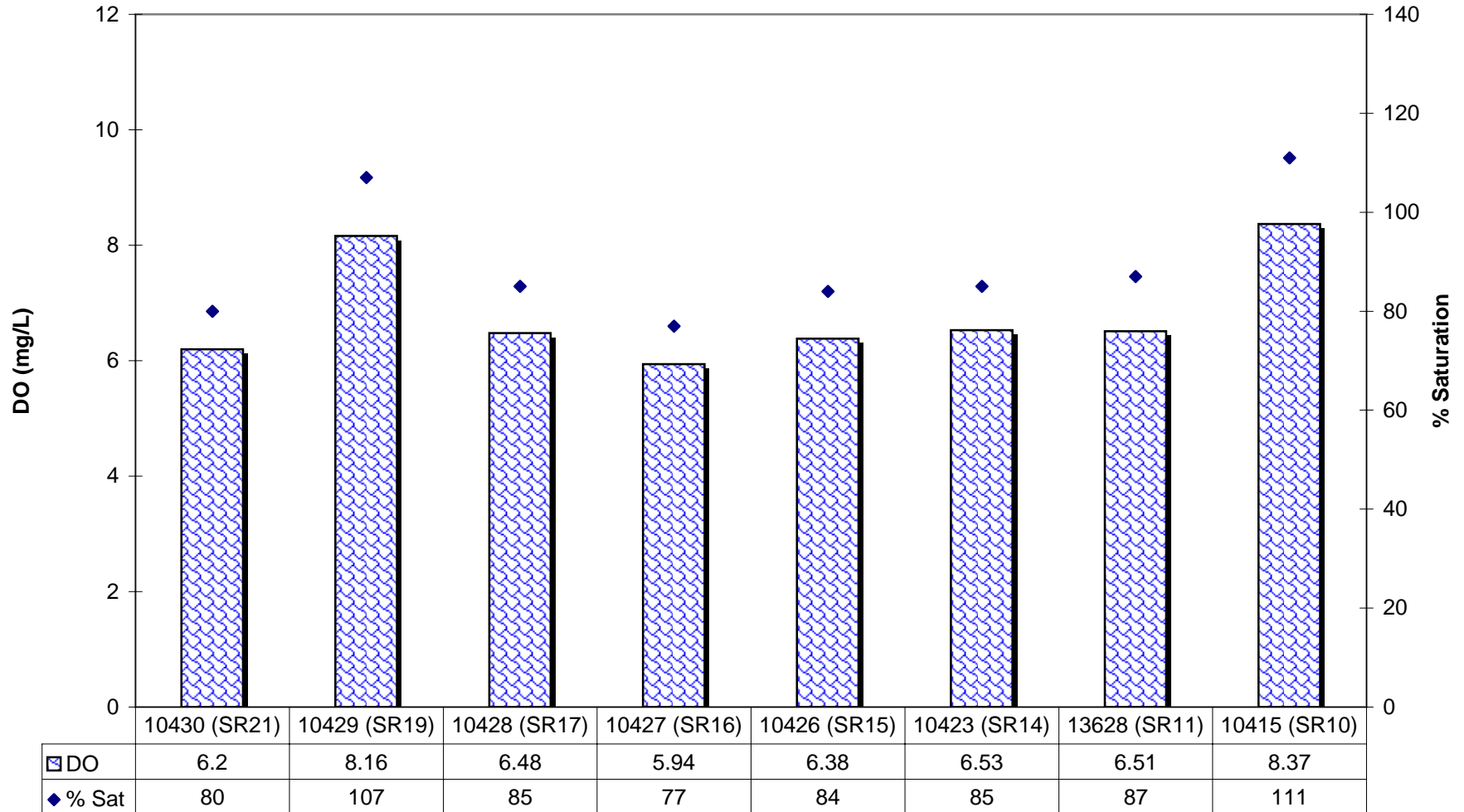
Upper Sabine Basin DO / % Saturation (1 of 2)



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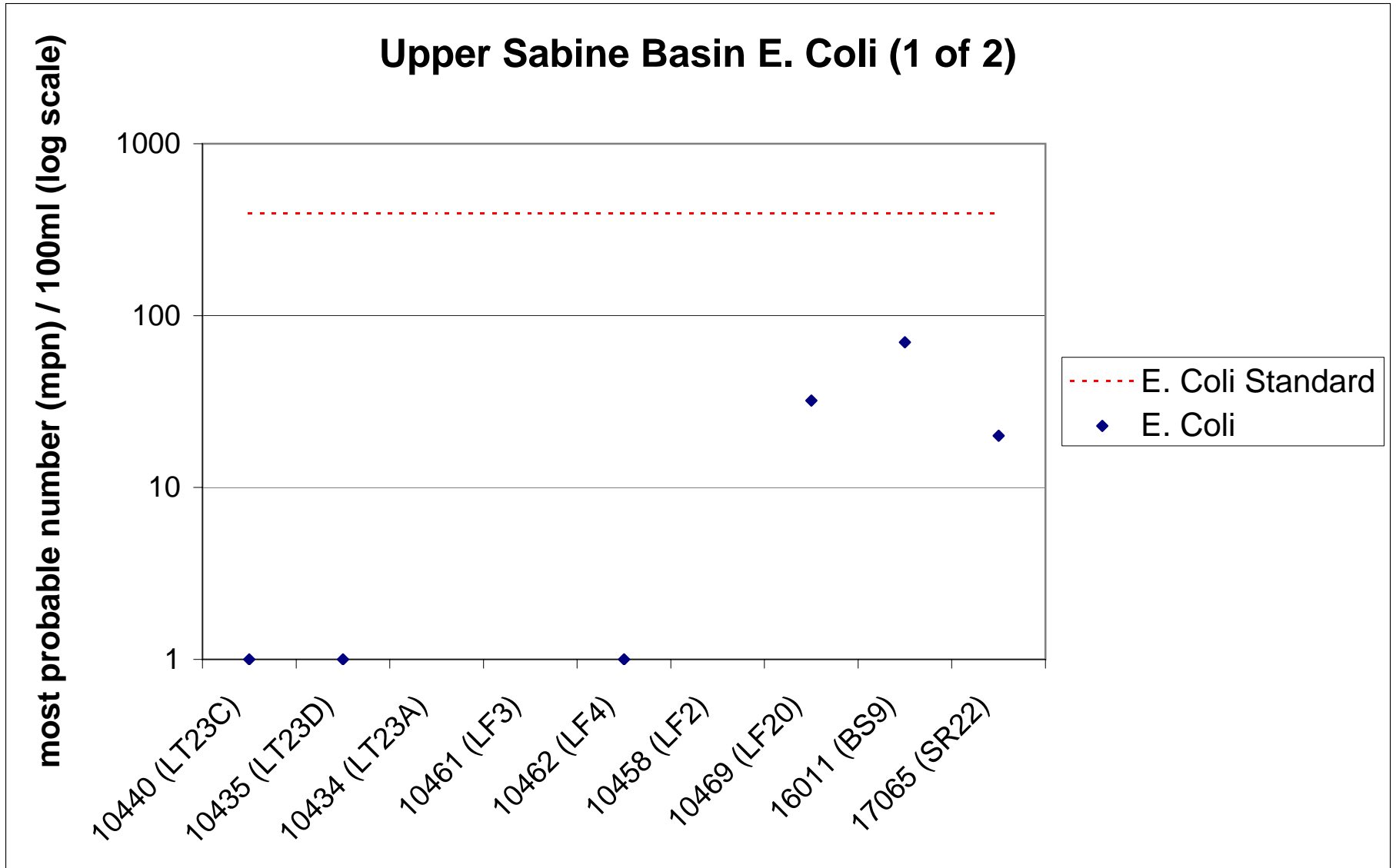
August 2004

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



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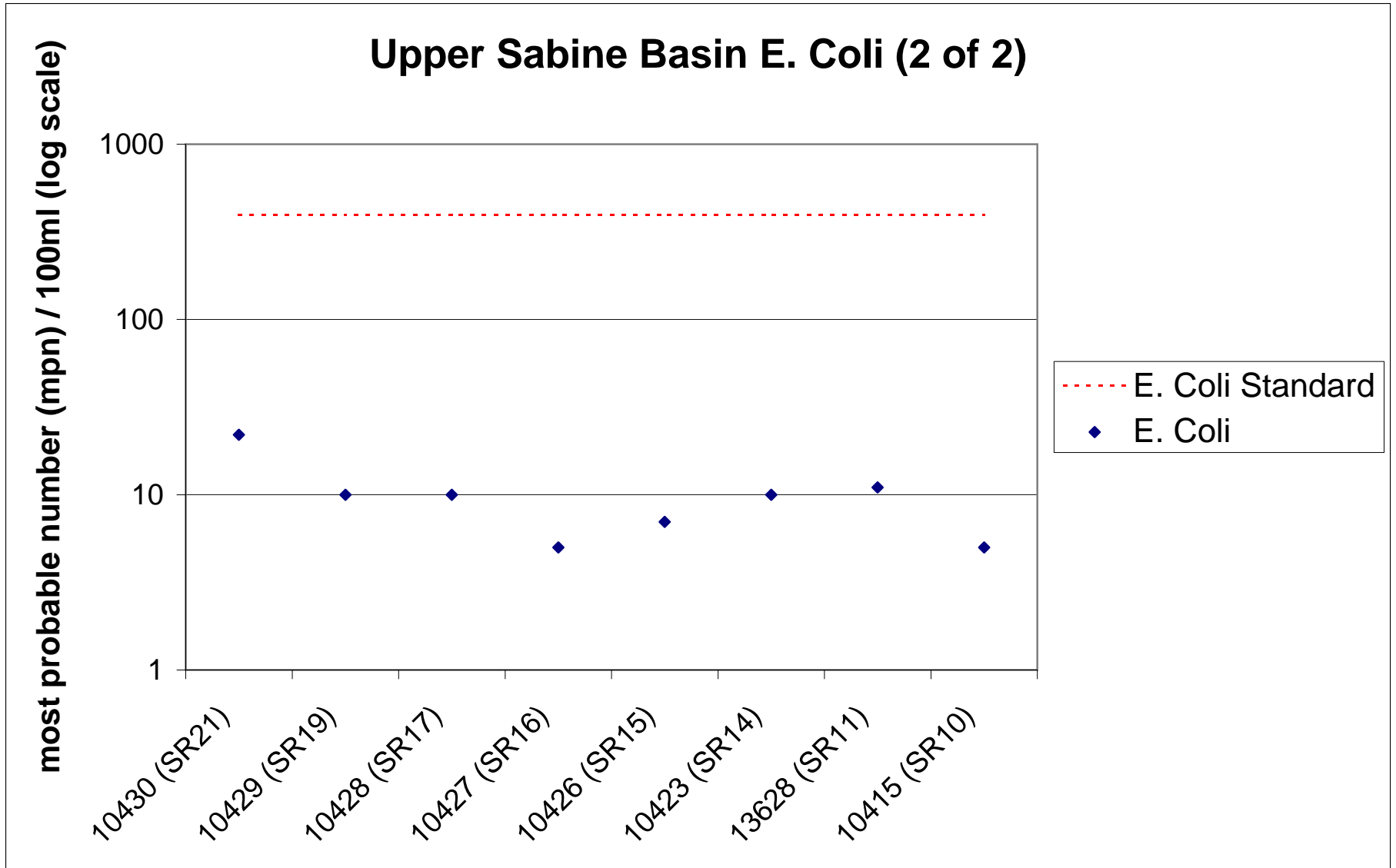
August 2004



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

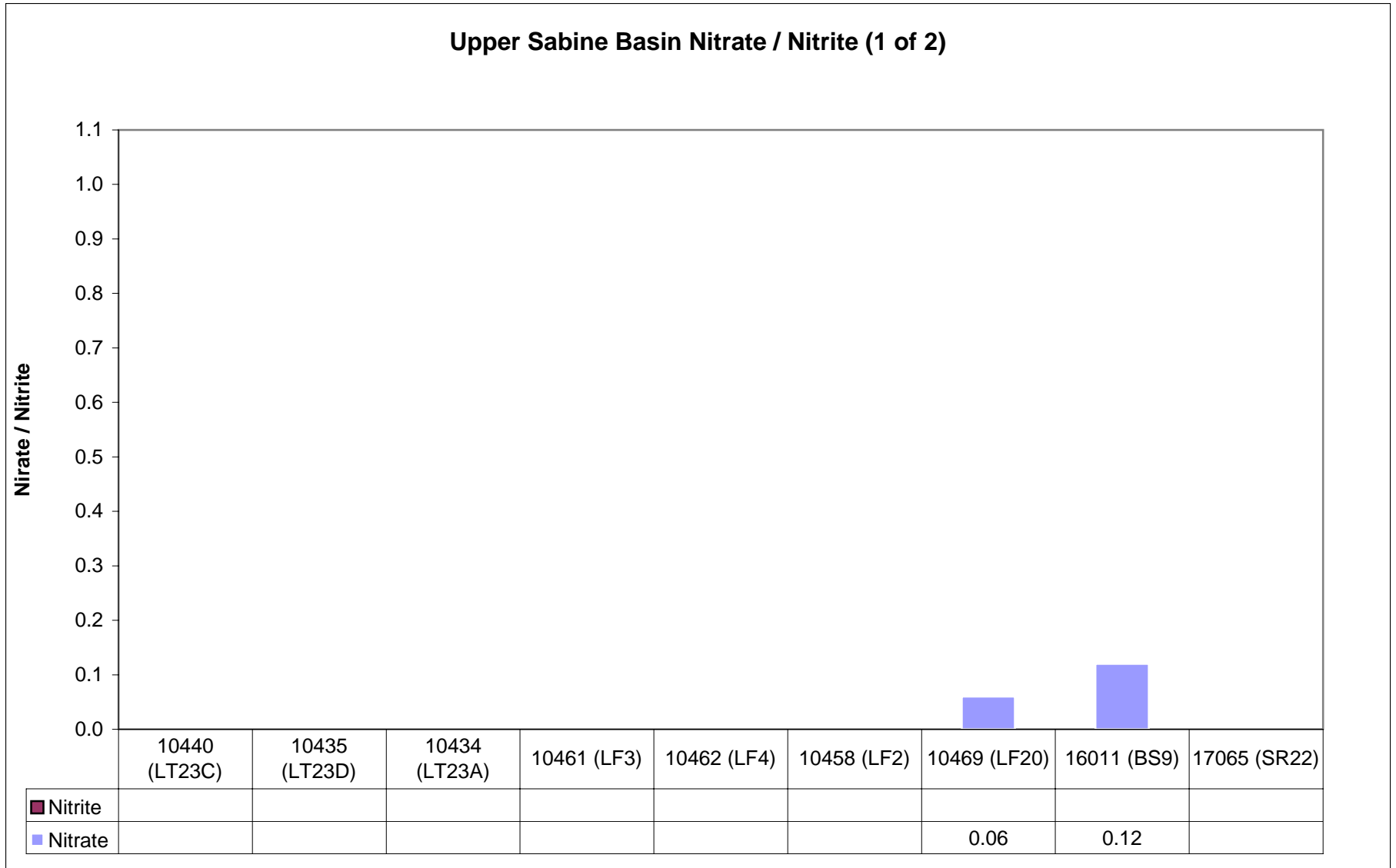
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August 2004



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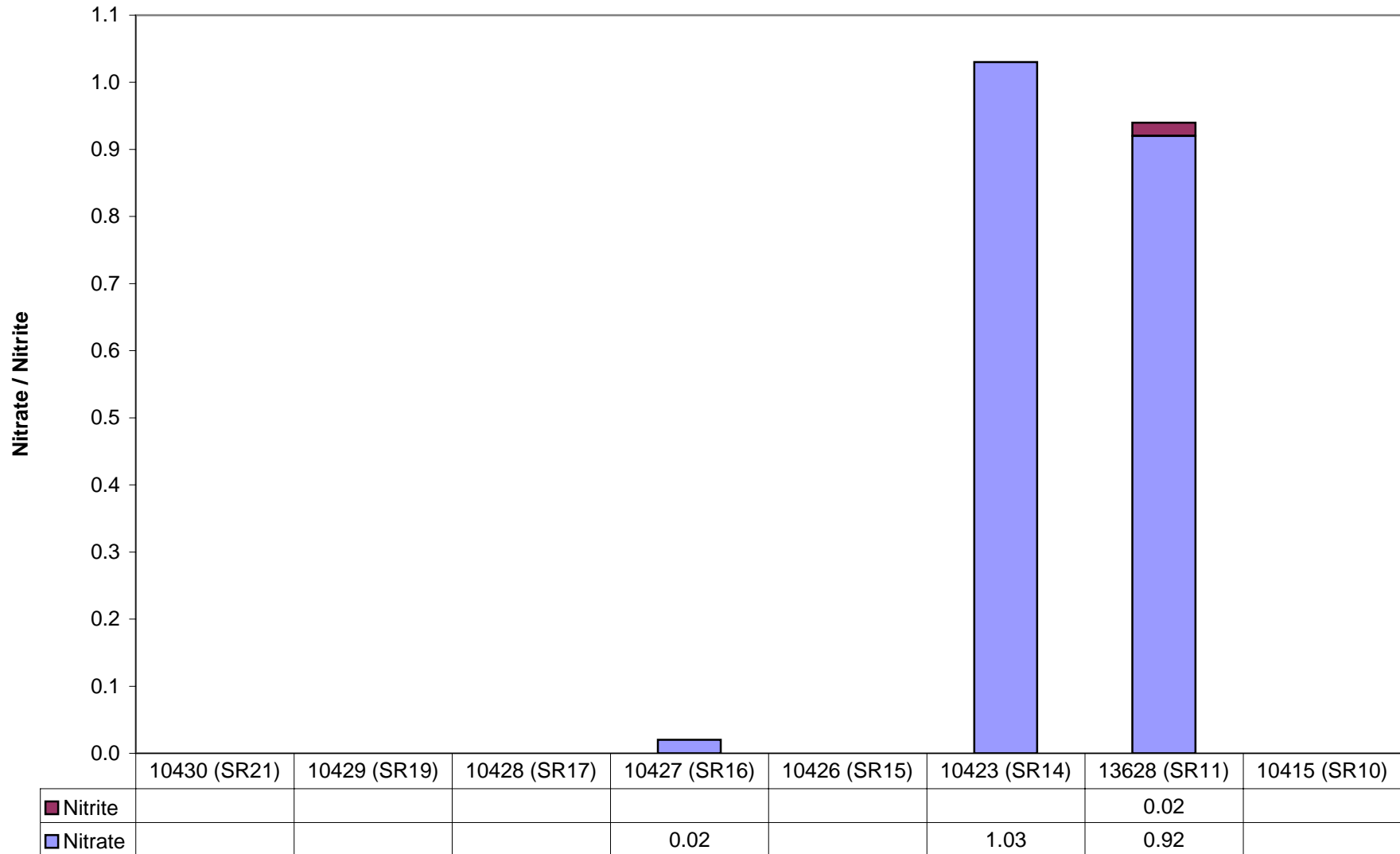
August 2004



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August 2004

Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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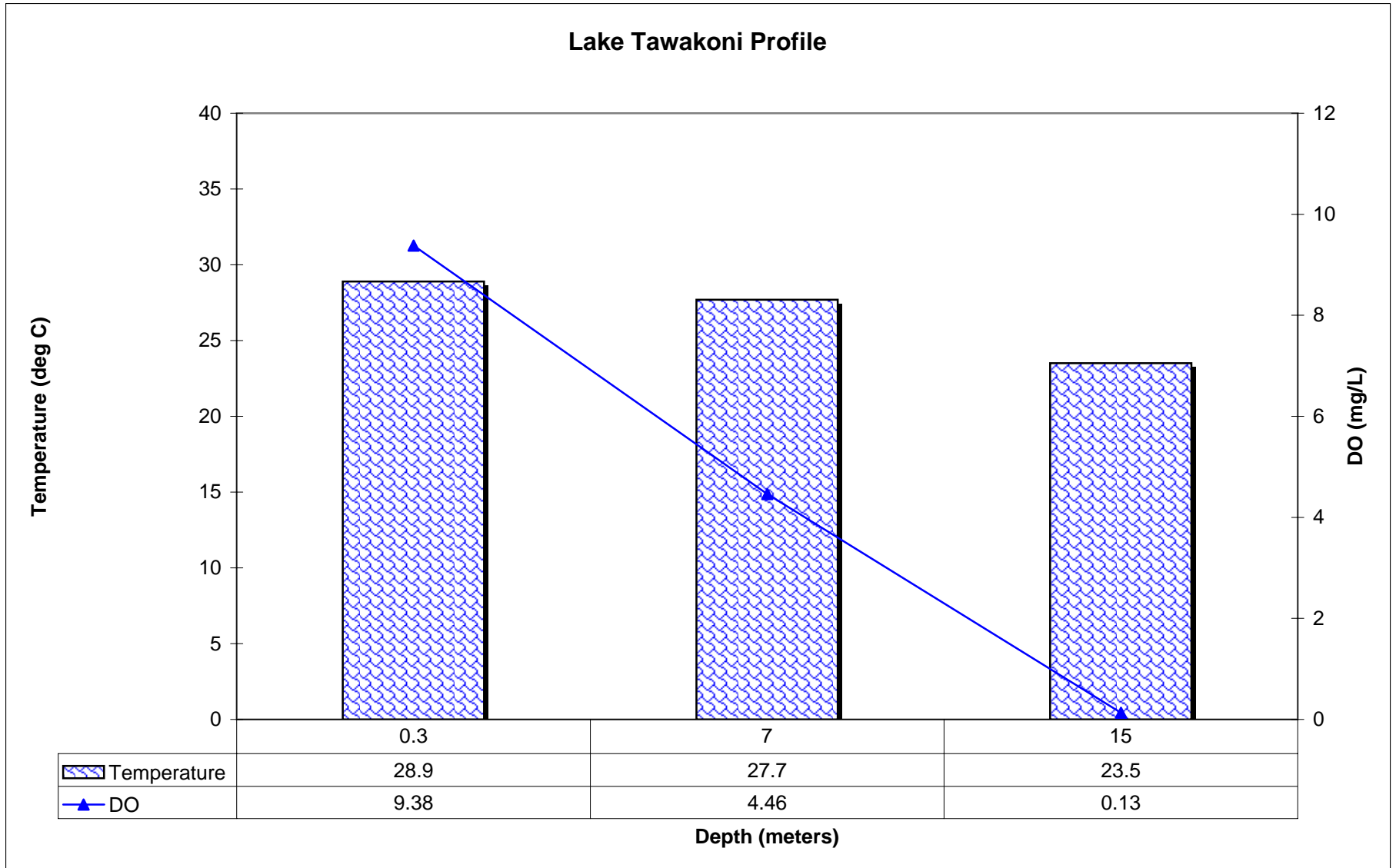
Upper Basin Profiles

August 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
8/10/04 11:11 AM	7.00	10440 (LT23C)	0.3	30.6	9	9.37	127	177
			1.6	29.6	8.92	8.43	113	179
			2.7	29.5	8.66	6.75	90	182
8/10/04 10:30 AM	7.00	10435 (LT23D)	0.3	29.8	9.09	9.92	133	179
			4	28.4	7.53	2.62	34	198
			8.8	28	7.22	0.19	2	209
8/10/04 9:39 AM	7.00	10434 (LT23A)	0.3	28.9	8.94	9.38	124	181
			7	27.7	7.93	4.46	58	192
			15	23.5	6.66	0.13	2	265
8/10/04 8:27 AM	6.12	10461 (LF3)	0.3	29.2	8.73	8.11	108	169
			5	27.8	6.87	2.42	32	168
			9.2	26.1	6.84	0.15	2	210
8/10/04 8:47 AM	6.12	10462 (LF4)	0.3	29.2	8.86	8.2	109	166
			5.4	28.6	7.3	4.94	65	167
			10.1	23.5	6.92	0.14	2	204
8/10/04 7:51 AM	6.12	10458 (LF2)	0.3	29.2	8.67	8.03	106	166
			5	28.3	7.16	4.96	64	164
			18.9	15.3	6.68	0.17	2	235

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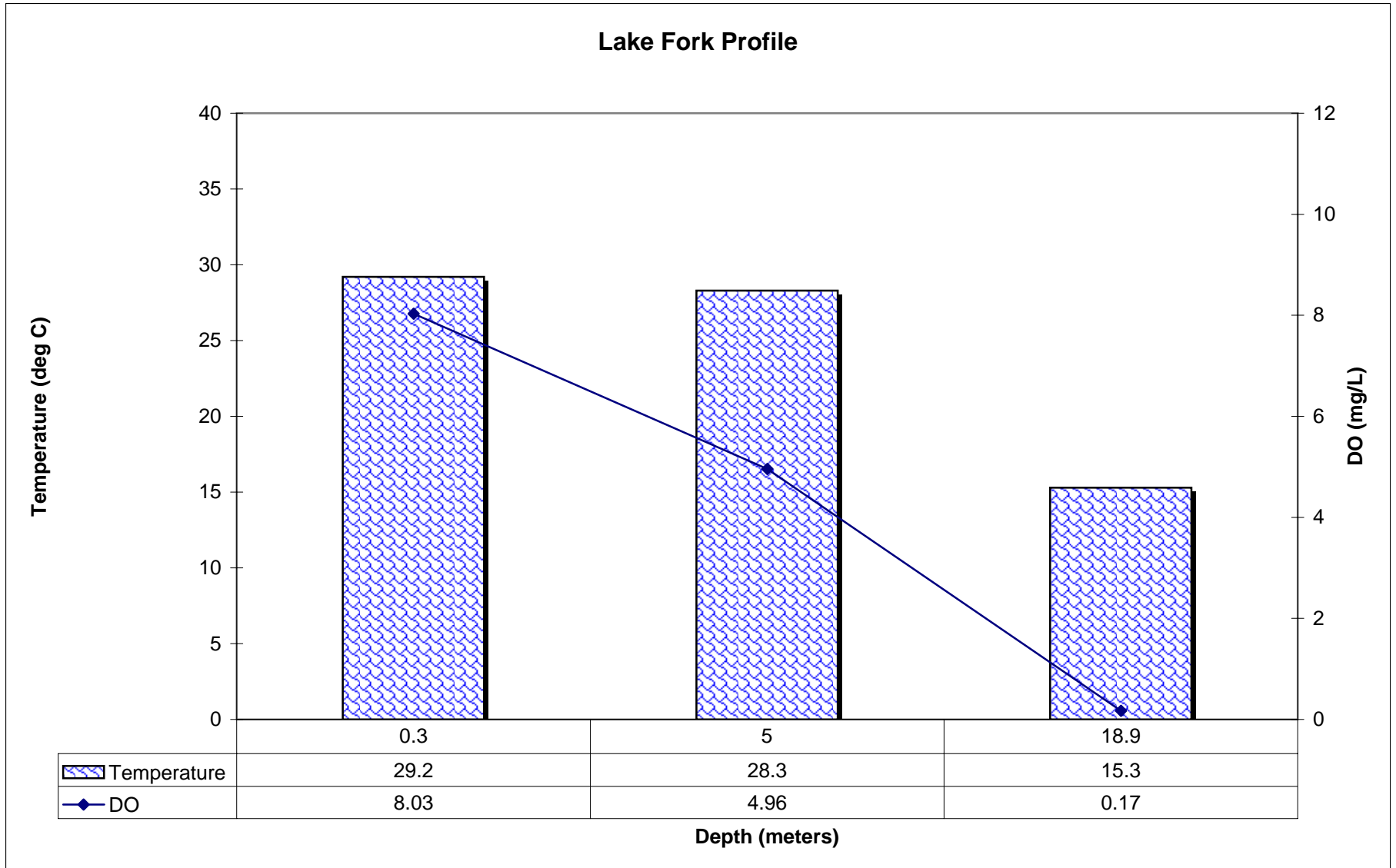
August 2004



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

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August 2004



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Lake Tawakoni Weather and Reservoir Data

August 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
8/1/2004	437.30	(0.20)	5	91	72	0.00	0.26
8/2/2004	437.28	(0.22)	5	93	75	0.00	0.35
8/3/2004	437.27	(0.23)	5	94	76	0.00	0.36
8/4/2004	437.26	(0.24)	5	96	76	0.00	0.28
8/5/2004	437.25	(0.25)	5	94	77	0.00	0.28
8/6/2004	437.20	(0.30)	5	92	74	0.00	0.40
8/7/2004	437.18	(0.32)	5	86	70	0.00	0.38
8/8/2004	437.15	(0.35)	5	84	68	0.00	0.40
8/9/2004	437.13	(0.37)	5	88	72	0.00	0.31
8/10/2004	437.12	(0.38)	5	88	74	0.10	0.17
8/11/2004	437.10	(0.40)	5	92	74	0.00	0.32
8/12/2004	437.12	(0.38)	5	87	60	0.32	0.32
8/13/2004	437.07	(0.43)	5	81	60	0.00	0.31
8/14/2004	437.03	(0.47)	5	78	60	0.00	0.29
8/15/2004	437.01	(0.49)	5	82	64	0.00	0.16
8/16/2004	436.98	(0.52)	5	84	68	0.00	0.34
8/17/2004	436.96	(0.54)	5	86	68	0.00	0.31
8/18/2004	436.93	(0.57)	5	98	68	0.00	0.33
8/19/2004	436.91	(0.59)	5	90	68	0.00	0.36
8/20/2004	437.05	(0.45)	5	76	70	1.59	0.00
8/21/2004	437.05	(0.45)	5	85	72	0.03	0.10
8/22/2004	437.01	(0.49)	5	79	72	0.00	0.18
8/23/2004	437.02	(0.48)	5	85	73	0.03	0.22
8/24/2004	436.99	(0.51)	5	85	76	0.21	0.22
8/25/2004	436.99	(0.51)	5	89	79	0.00	0.30
8/26/2004	436.95	(0.55)	5	89	78	0.00	0.34
8/27/2004	436.94	(0.56)	5	91	78	0.00	0.36
8/28/2004	436.92	(0.58)	5	90	78	0.00	0.32
8/29/2004	436.96	(0.54)	5	83	70	0.54	0.22
8/30/2004	436.92	(0.58)	5	85	62	0.00	0.30
8/31/2004	436.90	(0.60)	5	85	65	0.00	0.22
Avg or Tot	437.06	(0.44)	5	87	71	2.82	8.71

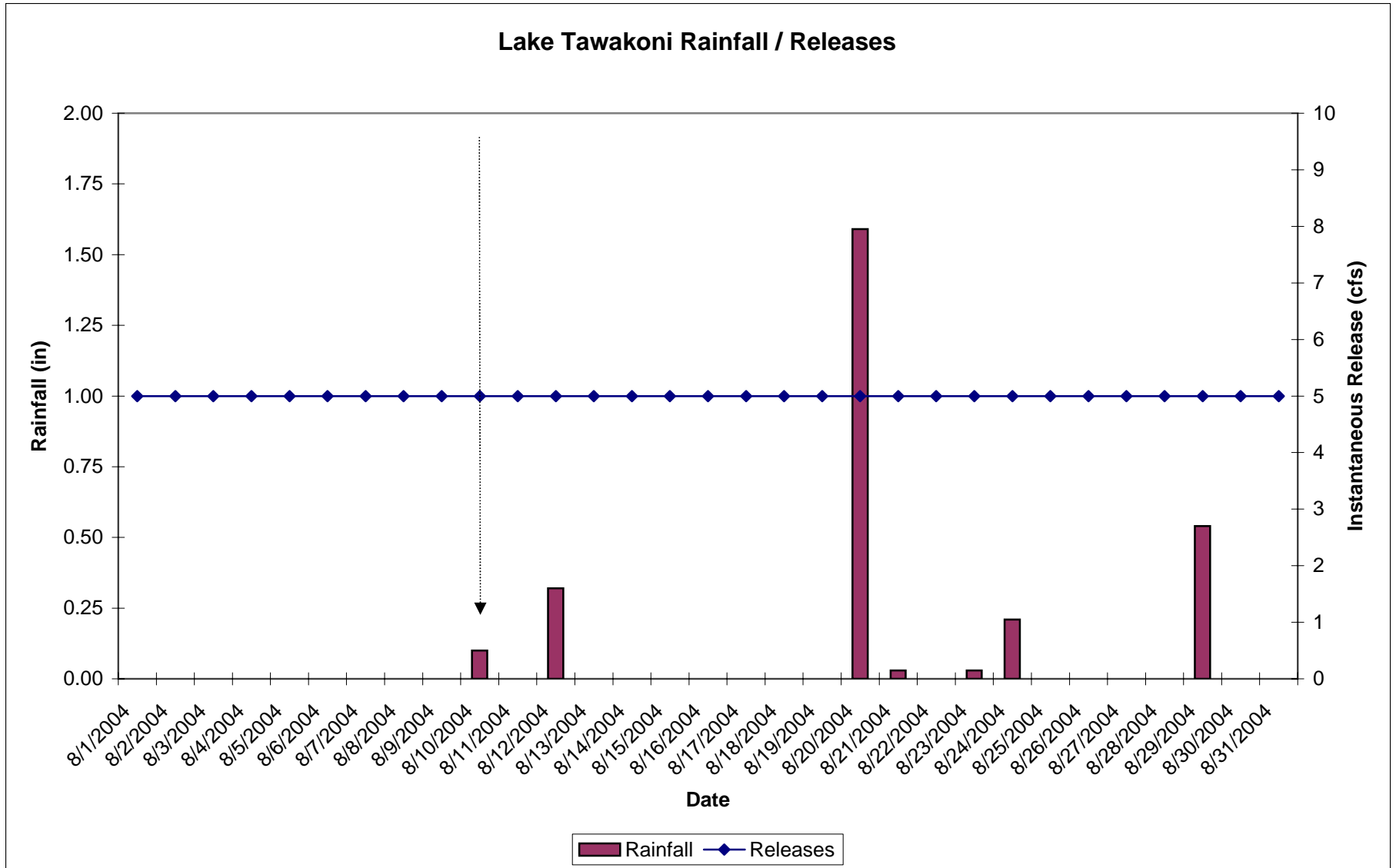
	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	Deg F	Deg F	Inches	Inches
			Instantaneous				
			appx. 8 a.m.				

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

Lake Tawakoni Sampled on 8/10/2004

SABINE RIVER AUTHORITY OF TEXAS

August 2004



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

August 2004

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
8/1/2004	402.59	(0.41)	64	64	96	72	0.00	0.25
8/2/2004	402.57	(0.43)	64	64	97	73	0.00	0.25
8/3/2004	402.56	(0.44)	64	64	99	73	0.00	0.34
8/4/2004	402.56	(0.44)	64	64	100	75	0.00	0.35
8/5/2004	402.53	(0.47)	64	64	100	77	0.00	0.26
8/6/2004	402.48	(0.52)	64	64	100	70	0.00	0.40
8/7/2004	402.44	(0.56)	64	64	90	66	0.00	0.39
8/8/2004	402.40	(0.60)	64	64	89	64	0.00	0.31
8/9/2004	402.38	(0.62)	64	64	93	68	0.00	0.35
8/10/2004	402.37	(0.63)	64	64	95	72	0.00	0.31
8/11/2004	402.35	(0.65)	64	64	96	73	0.00	0.30
8/12/2004	402.31	(0.69)	64	64	92	61	0.14	0.26
8/13/2004	402.31	(0.69)	64	64	88	62	0.00	0.30
8/14/2004	402.25	(0.75)	64	64	82	60	0.02	0.16
8/15/2004	402.22	(0.78)	64	64	87	63	0.00	0.26
8/16/2004	402.20	(0.80)	64	64	89	65	0.00	0.30
8/17/2004	402.18	(0.82)	64	64	91	66	0.00	0.33
8/18/2004	402.16	(0.84)	64	64	94	66	0.00	0.35
8/19/2004	402.14	(0.86)	64	64	85	68	0.00	0.36
8/20/2004	402.24	(0.76)	64	64	83	67	1.92	0.31
8/21/2004	402.23	(0.77)	64	64	90	70	0.04	0.16
8/22/2004	402.21	(0.79)	64	64	85	69	0.04	0.13
8/23/2004	402.20	(0.80)	64	64	90	69	0.05	0.12
8/24/2004	402.18	(0.82)	64	64	90	73	0.03	0.23
8/25/2004	402.16	(0.84)	64	64	93	75	0.00	0.32
8/26/2004	402.14	(0.86)	64	64	94	77	0.00	0.32
8/27/2004	402.13	(0.87)	64	64	94	75	0.00	0.37
8/28/2004	402.11	(0.89)	64	64	94	76	0.00	0.35
8/29/2004	402.10	(0.90)	64	64	88	71	0.00	0.19
8/30/2004	402.05	(0.95)	64	64	91	63	0.00	0.28
8/31/2004	402.04	(0.96)	64	64	89	61	0.00	0.13
Avg or Tot	402.28	(0.72)	64	64	92	69	2.24	8.74

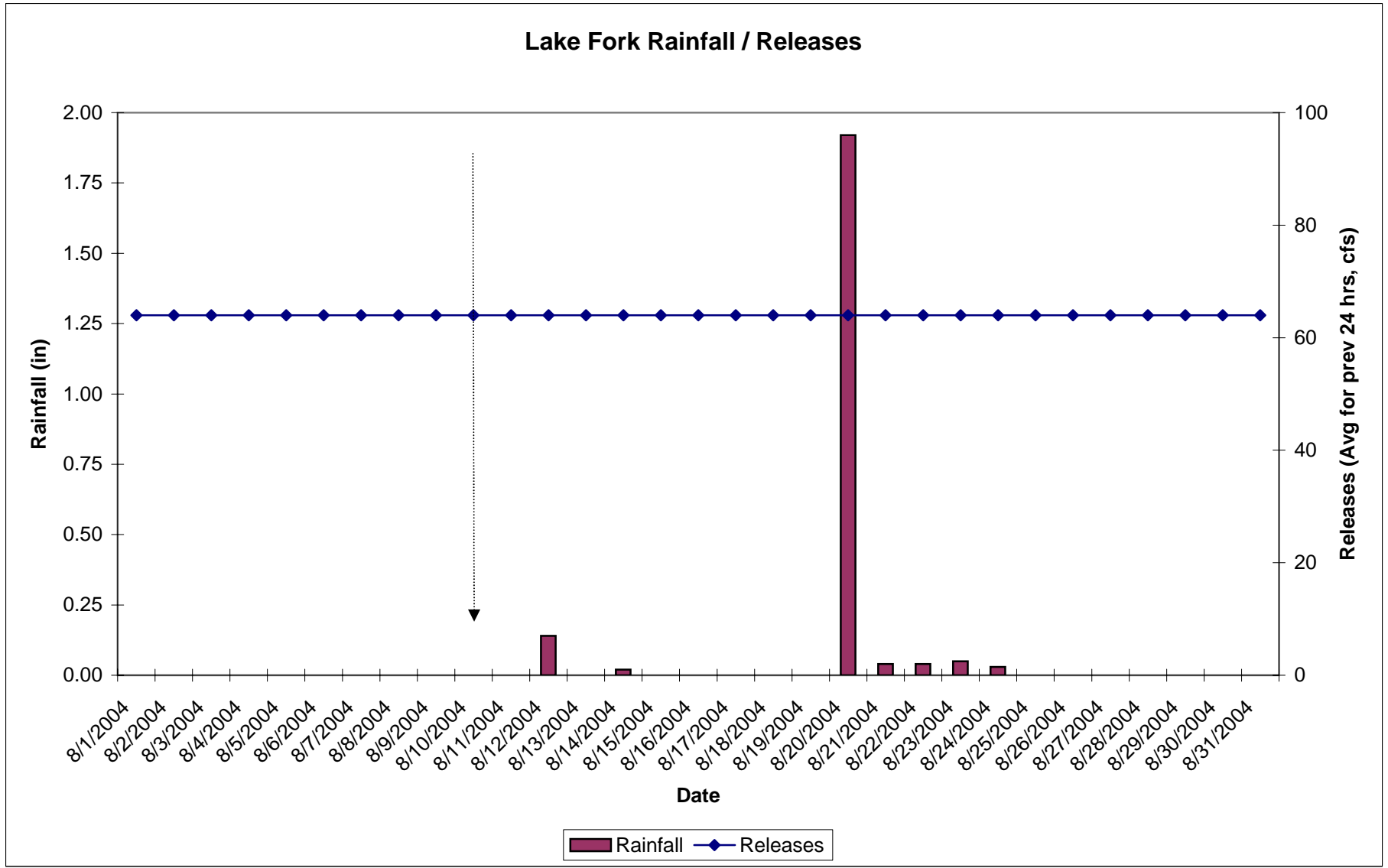
	Avg	Avg	Avg		Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs	cfs	Deg F	Deg F	Inches	Inches
			Previous 24 hrs					

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

Lake Fork Sampled on 8/10/2004

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August 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.

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Report

August 2004

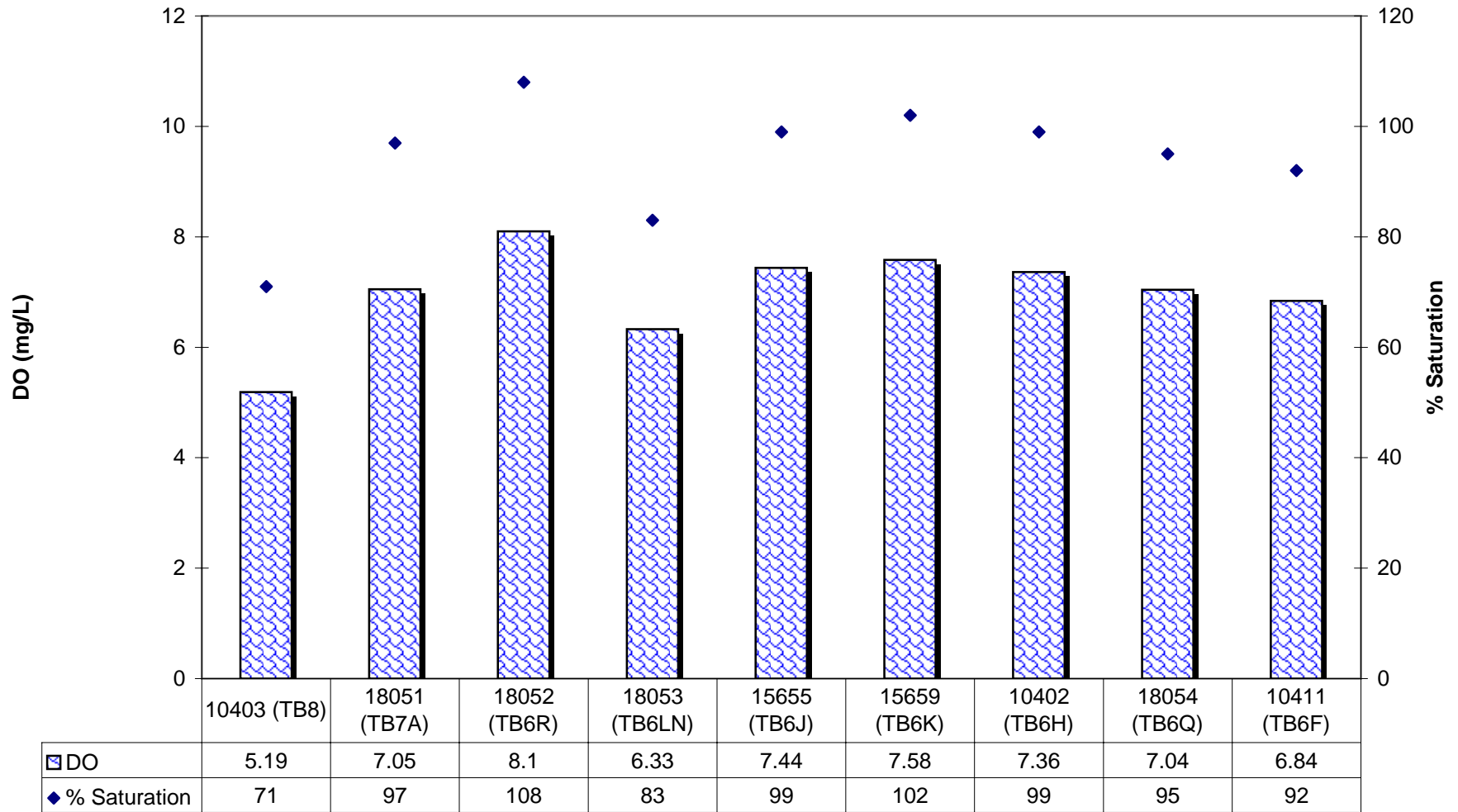
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
8/11/04 11:00 AM	4.00	10403 (TB8)	30.7	7.37	5.19	71	476	*	0.6	7.64	1	*	< 0.02	0.02	< 0.04	9	*	*	60.5	49.6
8/11/04 11:35 AM	4.00	18051 (TB7A)	31.5	7.42	7.05	97	439	*	0.61	6.29	< 1	*	< 0.02	< 0.02	< 0.04	9	*	*	55.7	41.7
8/9/04 10:05 AM	4.00	18052 (TB6R)	30.6	8.37	8.1	108	151	*	0.71	3.7	< 1	*	< 0.02	< 0.02	< 0.04	10	*	*	17.3	14.1
8/9/04 12:05 PM	4.00	18053 (TB6LN)	30.1	6.91	6.33	83	130	*	0.53	4.15	1	*	< 0.02	< 0.02	< 0.04	10	*	*	15.2	12.7
8/10/04 10:27 AM	4.00	15655 (TB6J)	30.3	8.11	7.44	99	146	*	0.85	3.12	< 1	*	< 0.02	0.02	< 0.04	9	*	*	16.9	16.6
8/10/04 12:20 PM	4.00	15659 (TB6K)	31	8.12	7.58	102	128	*	0.71	4.58	< 1	*	< 0.02	0.02	< 0.04	9	*	*	14.4	13.7
8/10/04 11:15 AM	4.00	10402 (TB6H)	30.7	8.12	7.36	99	144	*	1.1	2.39	< 1	*	< 0.02	< 0.02	< 0.04	9	*	*	17	16
8/9/04 12:50 PM	4.00	18054 (TB6Q)	30.8	7.24	7.04	95	139	*	1.11	1.9	< 1	*	< 0.02	< 0.02	< 0.04	8	*	*	16.4	15.7
8/10/04 10:52 AM	4.00	10411 (TB6F)	30.8	7.64	6.84	92	124	*	0.98	2.38	2	*	< 0.02	< 0.02	< 0.04	8	*	*	14.1	14.3
8/10/04 9:50 AM	4.00	10407 (TB6CN)	31.1	7.11	7.02	94	123	*	1.39	2.15	1	*	< 0.02	0.04	< 0.04	8	*	*	14.5	15.1
8/9/04 1:45 PM	4.00	10404 (TB6A)	31.3	7.53	7.11	96	132	*	1.78	0.96	< 1	*	< 0.02	< 0.02	< 0.04	7	*	*	15.8	16.5
8/11/04 12:45 PM	3.03	10340 (BA4)	28.6	7.41	6.56	84	509	*	0.28	21.6	21	*	0.02	0.27	0.14	14	*	*	18.3	120
8/11/04 10:45 AM	3.00	10401 (TB6S)	18	7.01	8.54	90	158	*	> 1.22	1.79	10	*	< 0.02	< 0.02	< 0.04	7	*	*	14.8	13.6
8/11/04 12:20 PM	3.00	10399 (SR5)	30.3	7.36	6.82	90	136	*	0.89	3.31	22	*	< 0.02	0.03	< 0.04	6	*	*	14.8	15.3
8/11/04 1:05 PM	3.00	10398 (SR3)	30.5	7.34	6.95	92	142	*	0.34	5.26	11	*	< 0.02	< 0.02	< 0.04	6	*	*	14.9	16.2
8/11/04 9:32 AM	2.05	10465 (BCC1)	25.3	6.64	7.21	88	49	*	0.77	8.79	58	*	< 0.02	0.1	< 0.04	4	*	*	< 10	< 10
8/11/04 8:52 AM	2.00	10397 (SR2)	29.7	7.03	6.24	82	130	*	0.39	8.44	6	*	< 0.02	0.02	< 0.04	6	*	*	13.2	15.2

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

August 2004

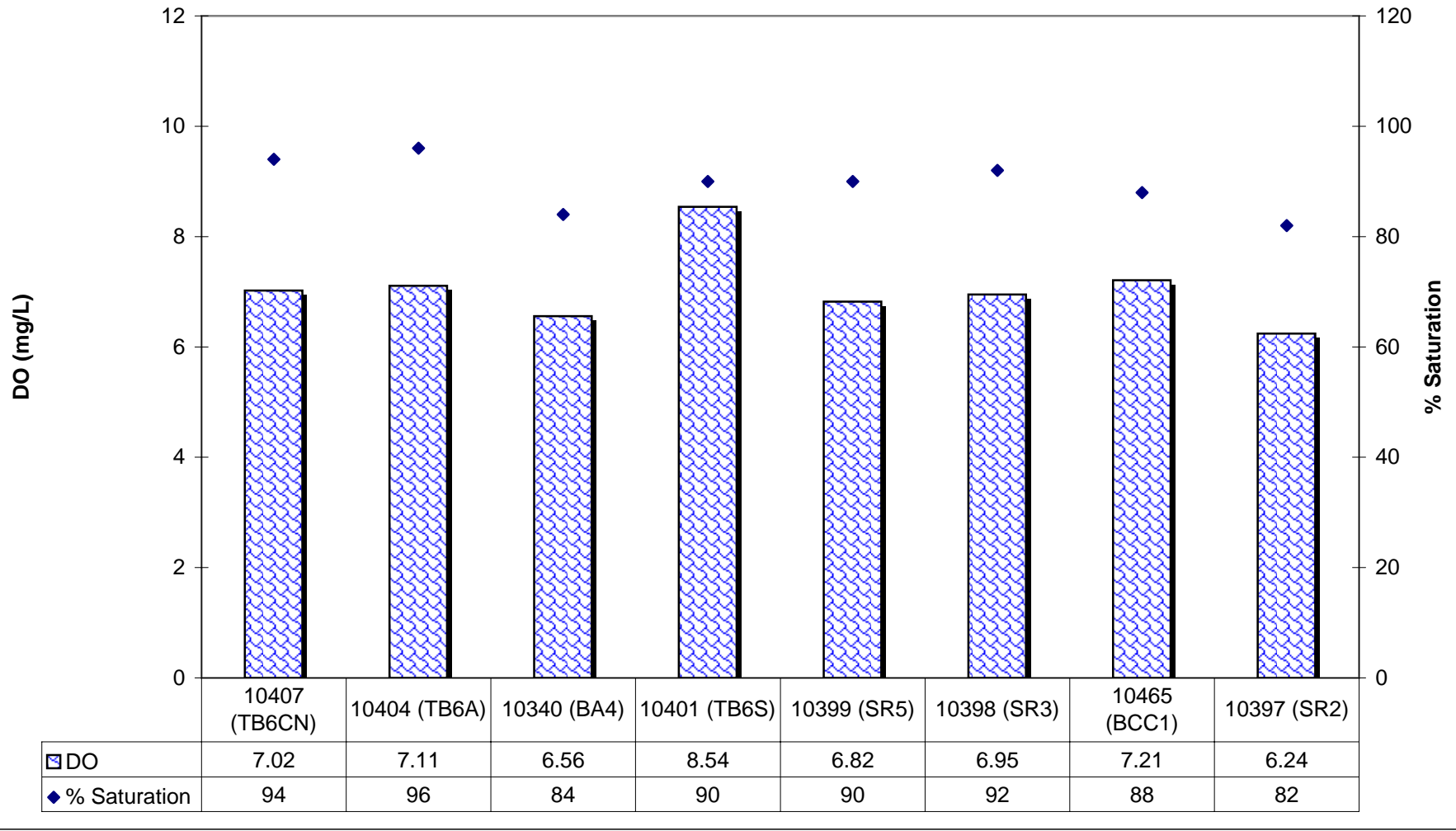
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

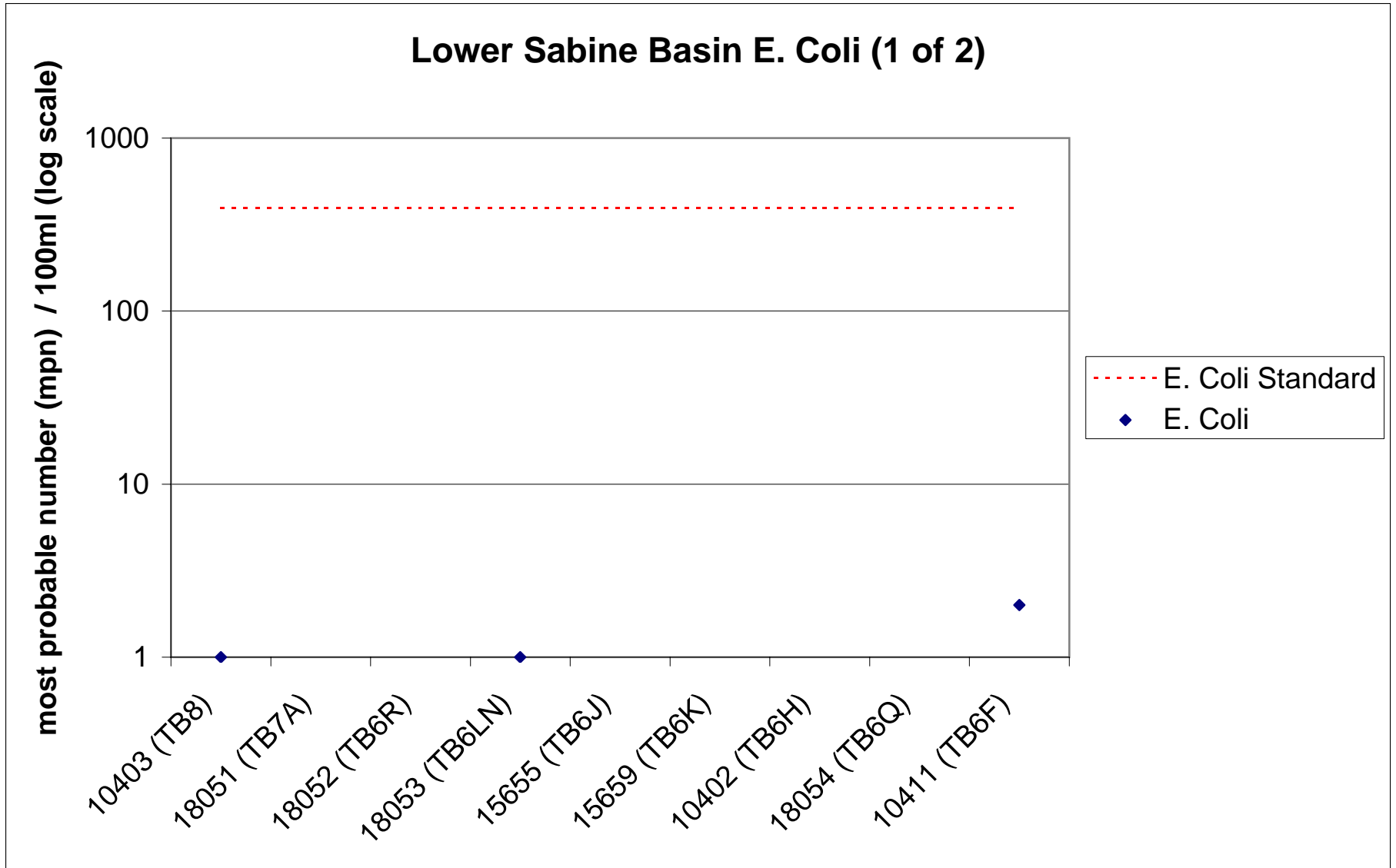
August 2004

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



SABINE RIVER AUTHORITY OF TEXAS

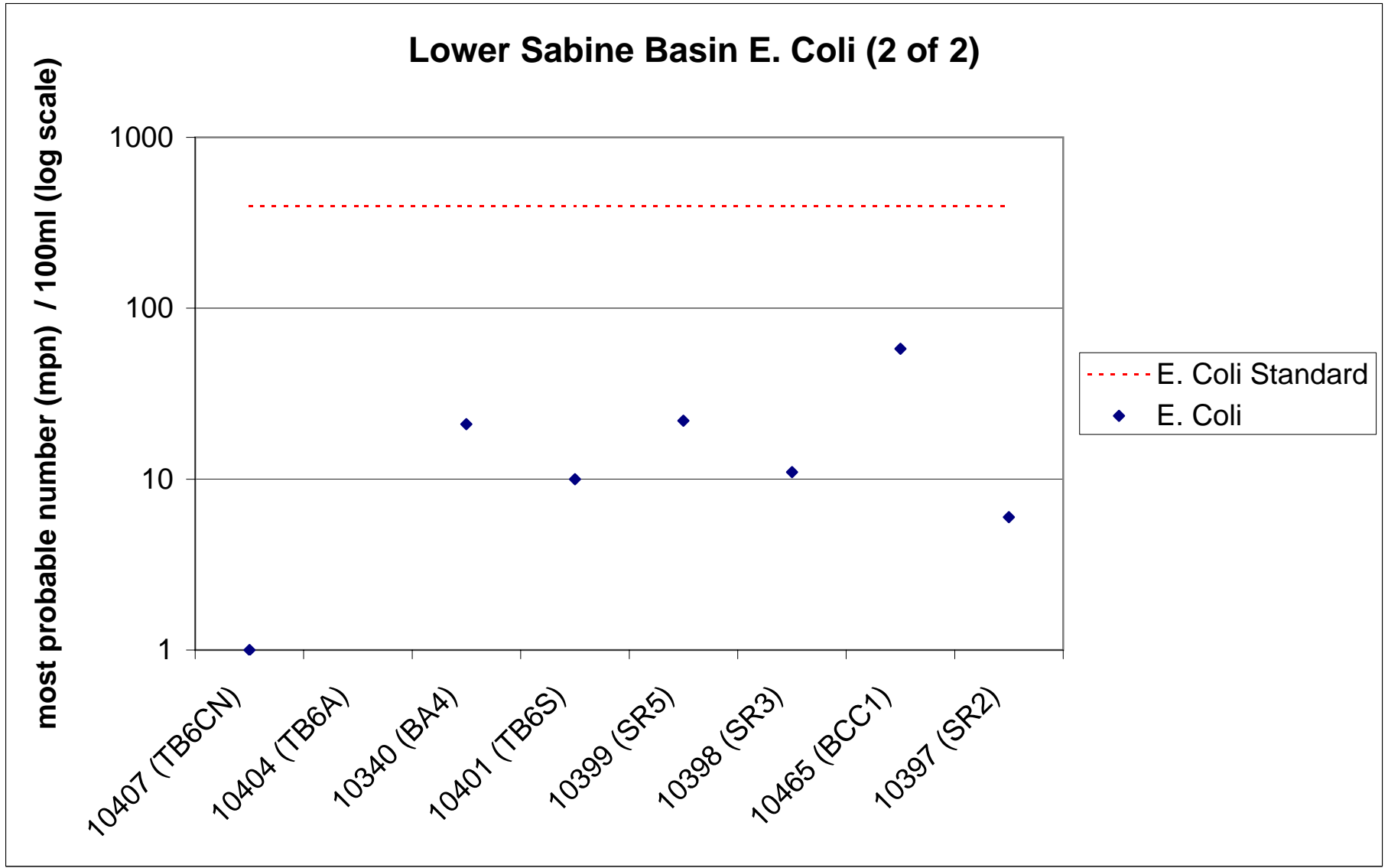
August 2004



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

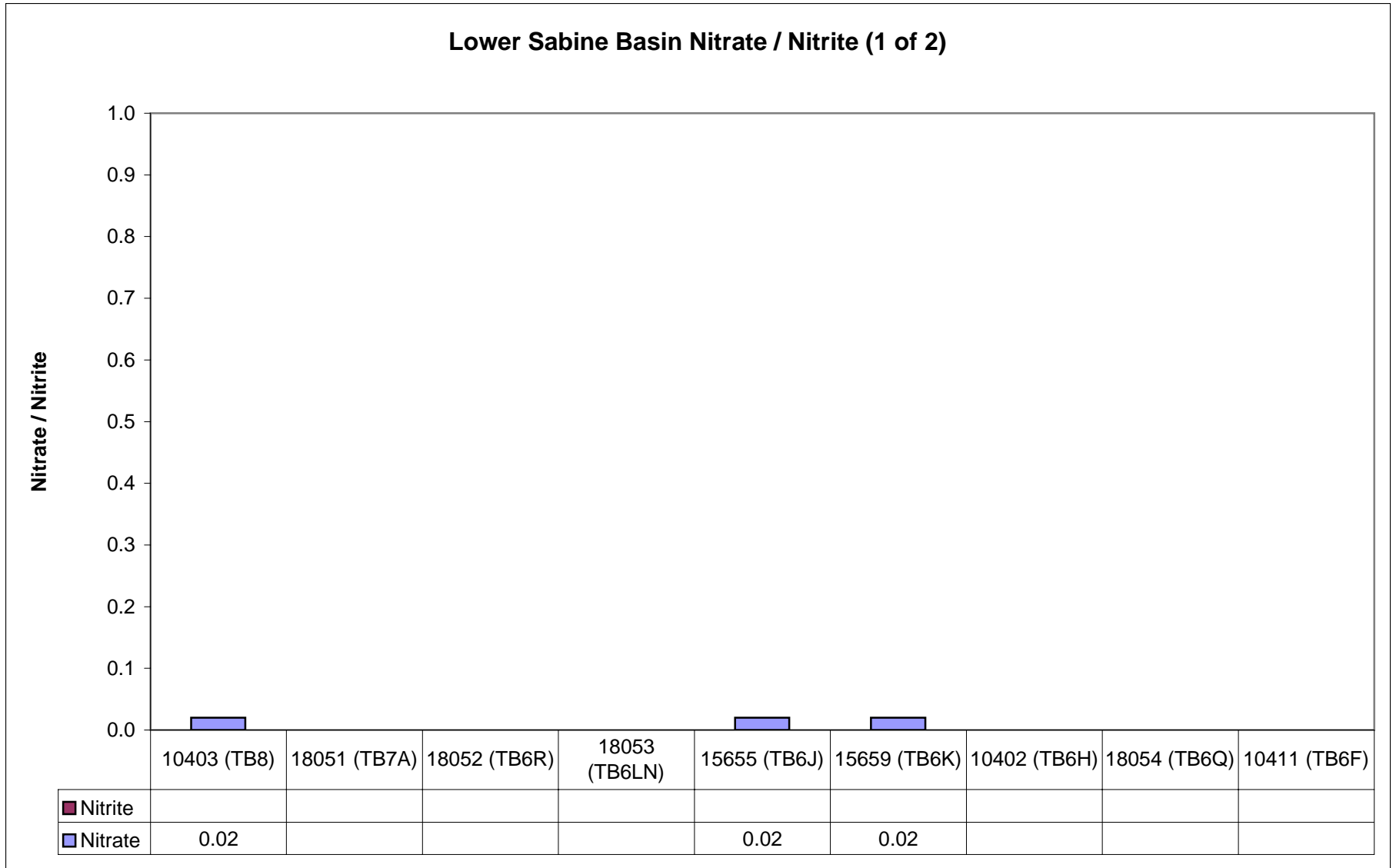
SABINE RIVER AUTHORITY OF TEXAS

August 2004



SABINE RIVER AUTHORITY OF TEXAS

August 2004

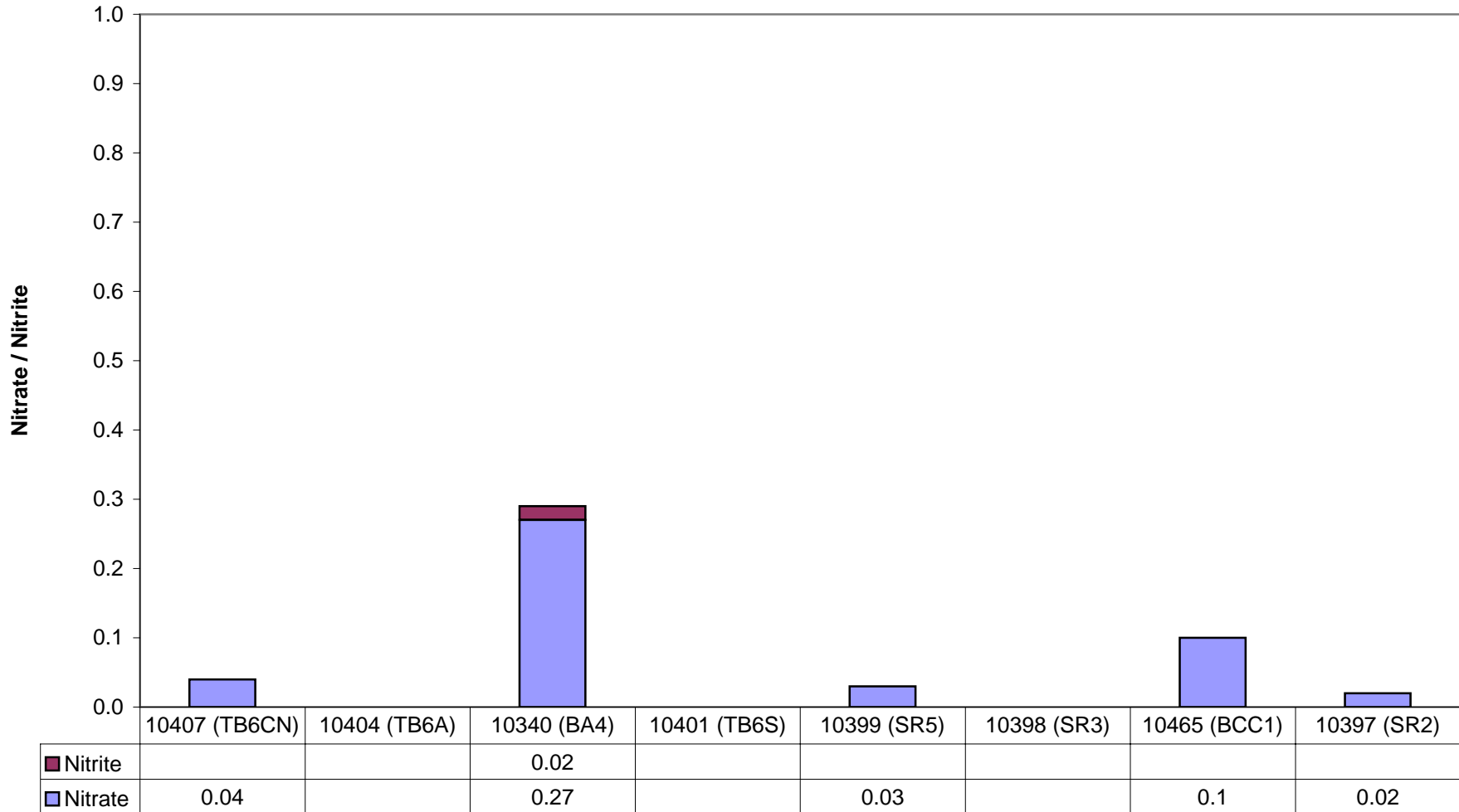


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

August 2004

Lower Sabine Basin Nitrate / Nitrite (2 of 2)



Stations without values below detection limit (< 0.02 mg/L) on this run (see page 18)

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

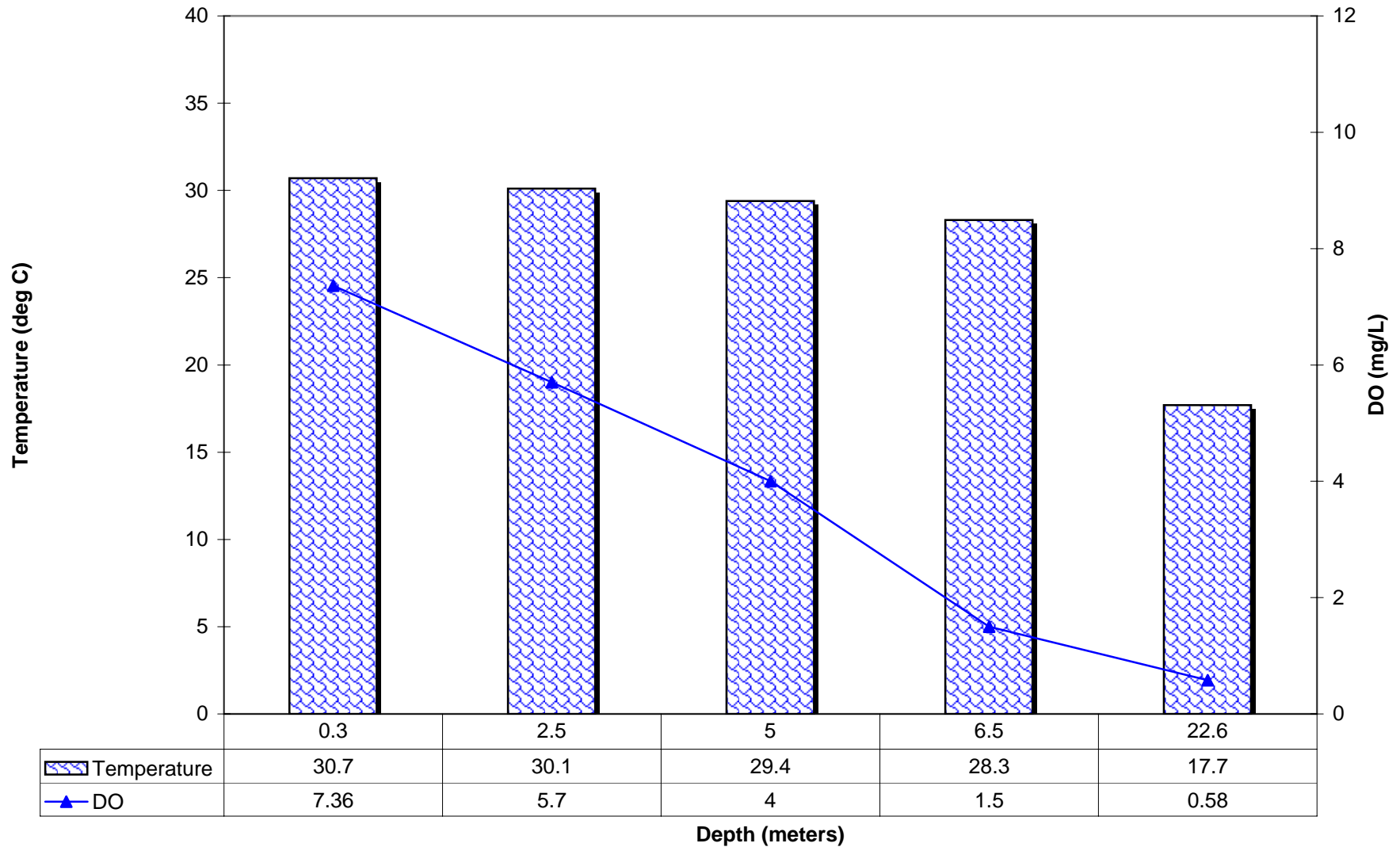
August 2004

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094
8/11/04 11:00 AM	4.00	10403 (TB8)	0.3	30.7	7.37	5.19	71	476
			4	29.8	7.01	1.43	19	454
			11	28.4	6.93	0.14	2	422
8/11/04 11:35 AM	4.00	18051 (TB7A)	0.3	31.5	7.42	7.05	97	439
			3	29.9	6.96	1.53	20	440
			9	28	6.79	0.12	2	302
8/9/04 10:05 AM	4.00	18052 (TB6R)	0.3	30.6	8.37	8.1	108	151
			1.5	30.1	7.74	6.67	88	150
			3	29.8	7.06	5.77	76	150
			6	29.1	6.71	2.69	36	151
			10	25.7	6.69	0.22	3	168
8/9/04 12:05 PM	4.00	18053 (TB6LN)	0.3	30.1	6.91	6.33	83	130
			2.5	28.8	6.55	3.15	41	133
			4.8	28.7	6.41	1.87	24	135
			5.9	28.6	6.32	0.61	8	138
			15.1	21.3	6.75	0.25	3	235
8/10/04 10:27 AM	4.00	15655 (TB6J)	0.3	30.3	8.11	7.44	99	146
			1.5	30	7.31	6.16	82	145
			2	29.9	7.11	6.01	80	145
			3.7	29.7	6.67	4.58	60	145
8/10/2004 12:20	4.00	15659 (TB6K)	0.3	31	8.12	7.58	102	128
			1	30.9	8.09	7.68	103	128
			2.5	28.8	6.47	1.51	20	133
			3	28.7	6.44	0.8	10	133
8/10/04 11:15 AM	4.00	10402 (TB6H)	0.3	30.7	8.12	7.36	99	144
			2.5	30.1	7.44	5.7	76	144
			5	29.4	6.85	4	51	143
			6.5	28.3	6.44	1.5	19	138
			22.6	17.7	6.51	0.58	6	158
8/9/04 12:50 PM	4.00	18054 (TB6Q)	0.3	30.8	7.24	7.04	95	139
			2.5	29.1	6.81	5.41	70	138
			4.9	28.6	6.49	2.66	34	136
			9	26.7	6.48	0.33	4	158
8/10/04 10:52 AM	4.00	10411 (TB6F)	0.3	30.8	7.64	6.84	92	124
			2	30.4	7	5.3	70	124
			3.8	29.8	6.5	2.69	36	113
			5.3	29.2	6.3	0.42	5	126
8/10/04 9:50 AM	4.00	10407 (TB6CN)	0.3	31.1	7.11	7.02	94	123
			2	30.2	6.59	5.8	77	118
			4	29.1	6.14	2.25	28	115
			6.8	27.6	5.88	0.38	5	113
8/9/04 1:45 PM	4.00	10404 (TB6A)	0.3	31.3	7.53	7.11	96	132
			3	31.3	7.5	7.07	96	132
			7	30.1	6.86	6.42	85	131
			8.1	28.2	6.19	0.36	4	125

SABINE RIVER AUTHORITY OF TEXAS

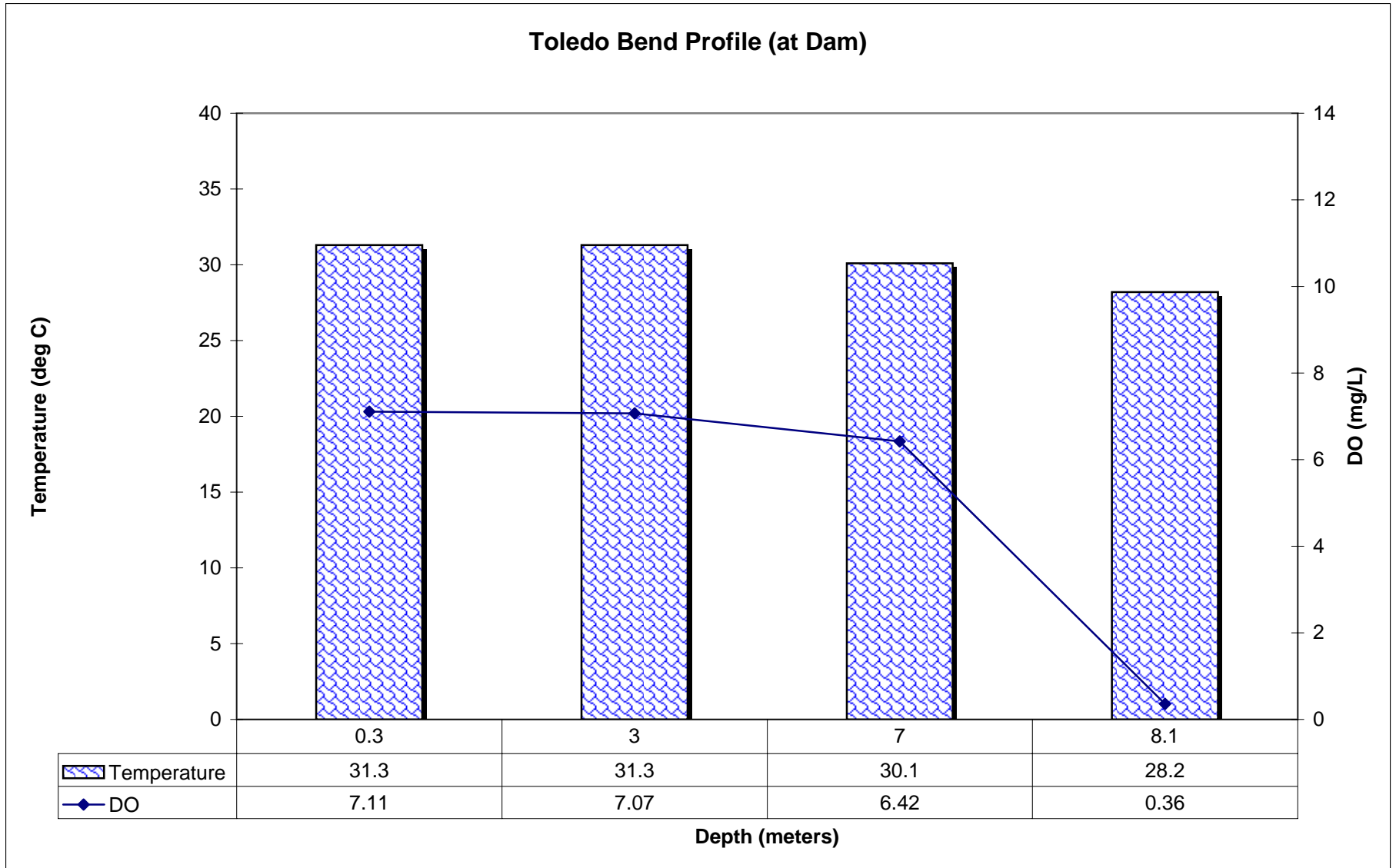
August 2004

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

August 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

August 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
8/1/2004	171.10	(0.90)	95	73	0.00	0.28	204	405	204
8/2/2004	171.13	(0.87)	95	73	0.00	0.22	5,519	10,948	204
8/3/2004	171.02	(0.98)	94	73	0.00	0.26	5,500	10,909	204
8/4/2004	170.94	(1.06)	94	73	0.00	0.31	2,611	5,179	204
8/5/2004	170.88	(1.12)	95	73	0.00	0.29	5,528	10,965	204
8/6/2004	170.86	(1.14)	97	70	0.00	0.32	5,580	11,068	204
8/7/2004	170.76	(1.24)	89	64	0.00	0.32	3,371	6,686	204
8/8/2004	170.68	(1.32)	88	64	0.00	0.28	204	405	204
8/9/2004	170.66	(1.34)	93	67	0.00	0.23	4,871	9,661	204
8/10/2004	170.60	(1.40)	94	71	0.00	0.31	5,559	11,026	204
8/11/2004	170.50	(1.50)	92	72	0.00	0.30	5,497	10,903	204
8/12/2004	170.67	(1.33)	93	67	0.42	0.40	5,480	10,869	204
8/13/2004	170.35	(1.65)	84	64	0.00	0.30	5,533	10,974	204
8/14/2004	170.26	(1.74)	84	60	0.00	0.28	3,207	6,355	204
8/15/2004	170.20	(1.80)	85	61	0.00	NR	204	405	204
8/16/2004	170.18	(1.82)	86	62	0.00	0.29	5,888	11,679	204
8/17/2004	170.12	(1.88)	90	63	0.00	0.27	5,630	11,167	204
8/18/2004	170.02	(1.98)	89	63	0.00	0.39	5,632	11,171	204
8/19/2004	169.90	(2.10)	91	64	0.00	0.36	5,635	11,177	204
8/20/2004	169.91	(2.09)	91	72	0.28	0.15	5,602	11,111	204
8/21/2004	169.96	(2.04)	89	70	0.41	0.16	3,718	7,375	204
8/22/2004	169.86	(2.14)	91	71	0.00	0.24	204	405	204
8/23/2004	169.87	(2.13)	89	71	0.01	0.13	5,610	11,127	204
8/24/2004	169.81	(2.19)	89	74	0.10	0.19	5,563	11,034	204
8/25/2004	169.76	(2.24)	88	75	0.07	0.28	8,032	15,931	204
8/26/2004	169.64	(2.36)	90	76	0.02	0.16	14,565	28,889	14,544
8/27/2004	169.47	(2.53)	92	75	0.00	0.27	7,998	15,864	204
8/28/2004	169.41	(2.59)	94	74	0.00	0.31	3,761	7,460	204
8/29/2004	169.40	(2.60)	89	71	0.00	0.22	204	405	204
8/30/2004	169.37	(2.63)	90	71	0.00	0.25	5,615	11,137	204
8/31/2004	169.27	(2.73)	90	63	0.00	0.26	5,638	11,183	204
Avg or Tot	170.21	(1.79)	91	69	1.31	8.03	4,779	293,873	

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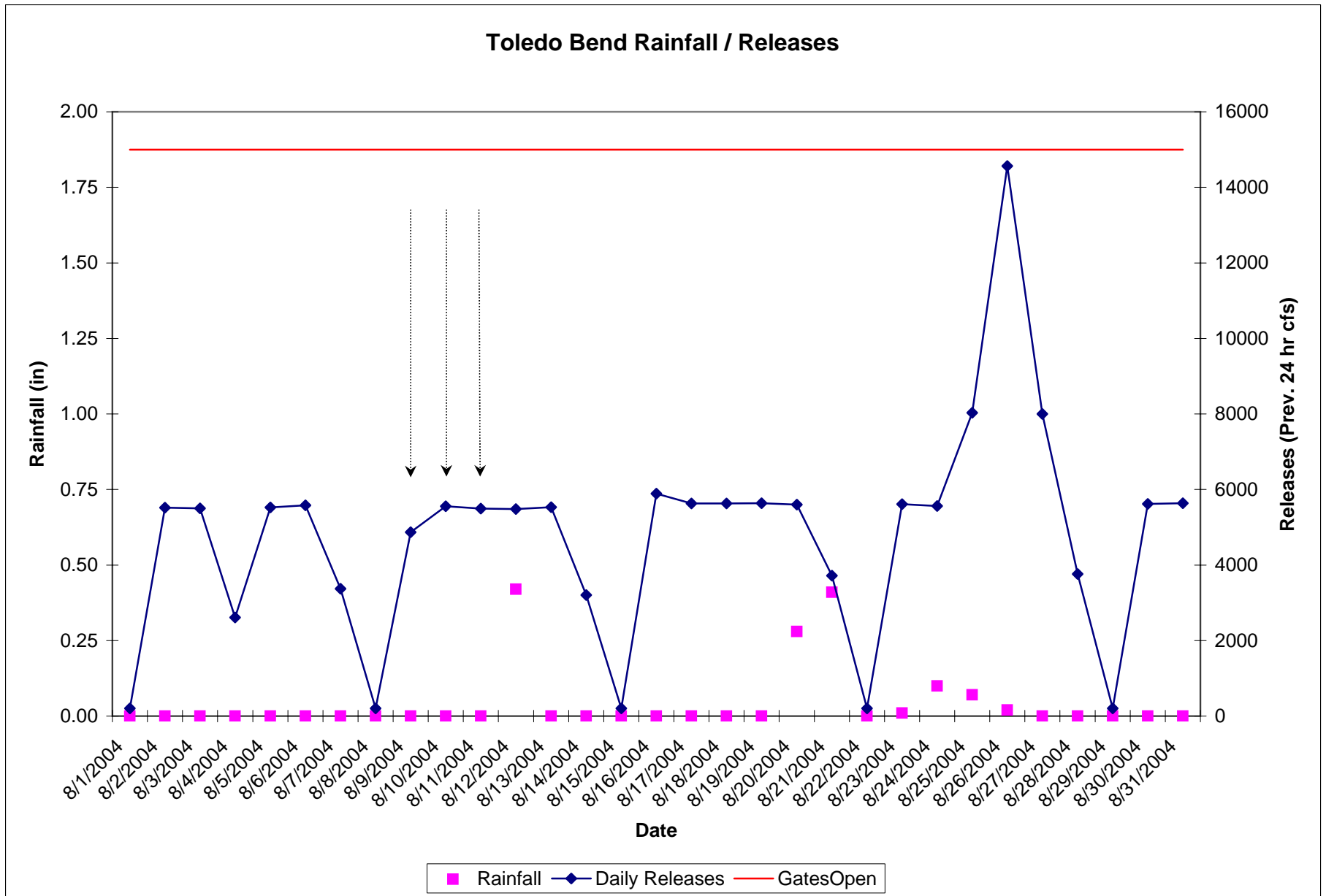
TOP: Top of Pool = 172 Feet M.S.L.

NR: No Reading

Toledo Bend Sampled on 8/9,10,11/2004

SABINE RIVER AUTHORITY OF TEXAS

August 2004



Toledo Bend sampled on 8/9,10,11/2004

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

August 2004

Date	Rainfall	Gauge Height	GH - FS	Flow
8/1/2004	0.00	16.60	(21.40)	2,370
8/2/2004	0.00	12.85	(25.15)	295
8/3/2004	0.01	18.33	(19.67)	3,930
8/4/2004	0.02	18.28	(19.72)	3,880
8/5/2004	0.00	16.11	(21.89)	1,990
8/6/2004	0.56	18.30	(19.70)	3,900
8/7/2004	0.00	18.12	(19.88)	3,720
8/8/2004	0.00	16.62	(21.38)	2,380
8/9/2004	0.00	12.77	(25.23)	271
8/10/2004	0.00	17.82	(20.18)	3,430
8/11/2004	0.00	18.27	(19.73)	3,870
8/12/2004	0.00	18.43	(19.57)	4,030
8/13/2004	0.00	18.78	(19.22)	4,390
8/14/2004	0.00	17.86	(20.14)	3,470
8/15/2004	0.00	16.49	(21.51)	2,280
8/16/2004	0.00	12.76	(25.24)	269
8/17/2004	0.00	18.04	(19.96)	3,640
8/18/2004	0.00	18.10	(19.90)	3,700
8/19/2004	OUT	OUT	OUT	OUT
8/20/2004	0.39	18.15	(19.85)	3,750
8/21/2004	0.61	18.12	(19.88)	3,720
8/22/2004	0.00	16.77	(21.23)	2,500
8/23/2004	0.04	12.86	(25.14)	298
8/24/2004	0.04	17.96	(20.04)	3,560
8/25/2004	0.18	18.73	(19.27)	4,340
8/26/2004	0.01	24.85	(13.15)	12,900
8/27/2004	0.00	24.61	(13.39)	12,500
8/28/2004	0.03	18.45	(19.55)	4,050
8/29/2004	0.10	17.01	(20.99)	2,700
8/30/2004	0.00	12.79	(25.21)	277
8/31/2004	0.01	18.30	(19.70)	3,900
Avg or Tot	2.00	17.44	(20.56)	3,544

	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

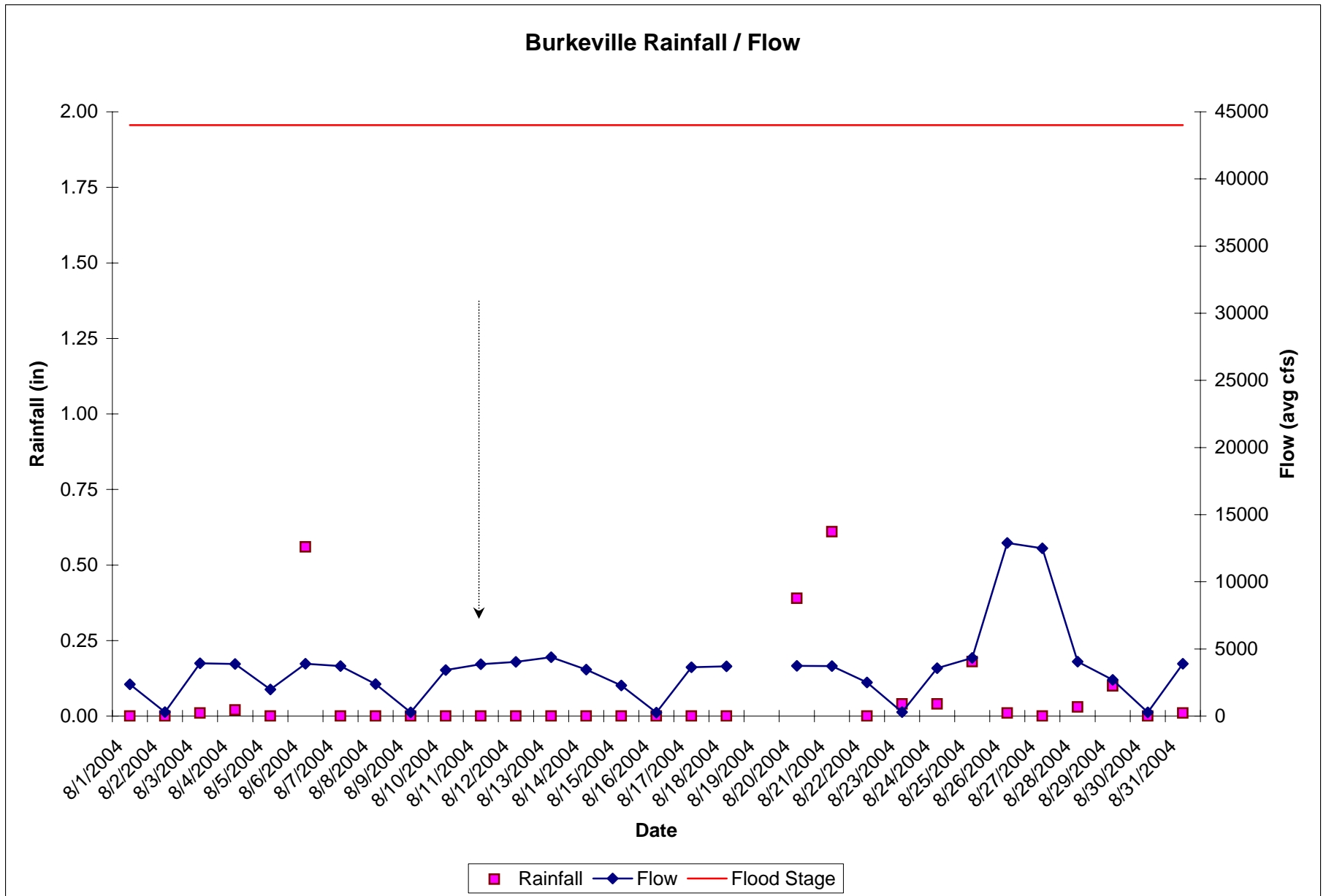
FS: Flood Stage = 38 feet

OUT: Gage Out

Lower Sabine Basin Sampled on 8/11/2004

SABINE RIVER AUTHORITY OF TEXAS

August 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

August 2004

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
8/1/2004	17.50	(12.50)	4,330	0.00
8/2/2004	16.50	(13.50)	3,350	0.00
8/3/2004	15.76	(14.24)	2,620	0.00
8/4/2004	19.10	(10.90)	6,270	0.00
8/5/2004	18.05	(11.95)	4,960	0.00
8/6/2004	17.28	(12.72)	4,100	0.49
8/7/2004	18.84	(11.16)	5,930	0.00
8/8/2004	17.78	(12.22)	4,640	0.00
8/9/2004	16.39	(13.61)	3,190	0.00
8/10/2004	15.19	(14.81)	2,150	0.00
8/11/2004	18.52	(11.48)	5,530	0.00
8/12/2004	18.73	(11.27)	5,790	0.06
8/13/2004	18.63	(11.37)	5,670	0.00
8/14/2004	18.90	(11.10)	6,010	0.00
8/15/2004	17.69	(12.31)	4,550	0.00
8/16/2004	16.33	(13.67)	3,140	0.00
8/17/2004	15.30	(14.70)	2,240	0.00
8/18/2004	18.66	(11.34)	5,700	0.00
8/19/2004	18.80	(11.20)	5,880	0.00
8/20/2004	18.81	(11.19)	5,890	0.04
8/21/2004	18.91	(11.09)	6,020	0.03
8/22/2004	18.07	(11.93)	4,980	0.02
8/23/2004	16.69	(13.31)	3,490	0.06
8/24/2004	15.54	(14.46)	2,430	0.00
8/25/2004	18.64	(11.36)	5,680	0.37
8/26/2004	18.94	(11.06)	6,060	0.19
8/27/2004	24.58	(5.42)	15,100	0.00
8/28/2004	22.76	(7.24)	11,800	0.00
8/29/2004	18.57	(11.43)	5,590	0.00
8/30/2004	16.56	(13.44)	3,360	0.00
8/31/2004	14.79	(15.21)	1,850	0.00
Avg or Tot	17.96	(12.04)	5,106	1.26

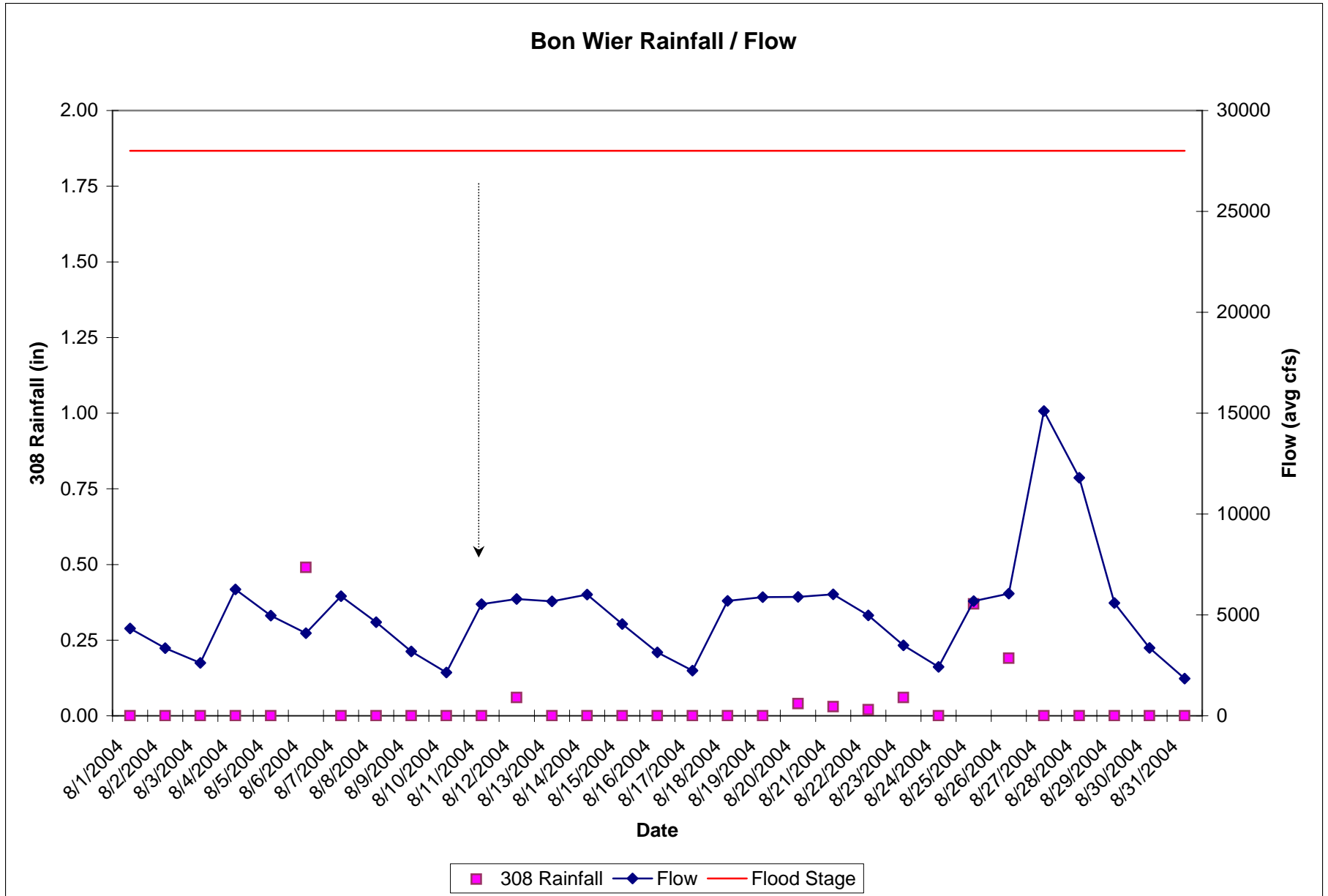
Units	Avg Feet	Avg Feet	Avg	Tot Inches
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FS: Flood Stage = 30 feet

Lower Sabine Basin Sampled on 8/11/2004

SABINE RIVER AUTHORITY OF TEXAS

August 2004



Lower Sabine Basin sampled on 8/11/2004

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

August 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	Flow avg	309 Rainfall
8/1/2004	21.19	(2.81)	6,220	12,337	6,220	0.01
8/2/2004	21.17	(2.83)	6,190	12,278	6,200	0.01
8/3/2004	20.71	(3.29)	5,560	11,028	5,990	0.02
8/4/2004	19.36	(4.64)	3,940	7,815	5,478	0.01
8/5/2004	20.24	(3.76)	4,930	9,779	5,368	0.02
8/6/2004	20.28	(3.72)	5,910	11,722	5,458	0.00
8/7/2004	20.78	(3.22)	5,650	11,207	5,486	0.00
8/8/2004	20.83	(3.17)	5,720	11,345	5,515	0.00
8/9/2004	21.09	(2.91)	6,070	12,040	5,577	0.00
8/10/2004	20.74	(3.26)	5,600	11,107	5,579	0.00
8/11/2004	19.11	(4.89)	3,700	7,339	5,408	0.00
8/12/2004	19.95	(4.05)	4,550	9,025	5,337	0.04
8/13/2004	20.75	(3.25)	5,610	11,127	5,358	0.00
8/14/2004	21.14	(2.86)	6,150	12,198	5,414	0.00
8/15/2004	21.26	(2.74)	6,330	12,555	5,475	0.00
8/16/2004	21.28	(2.72)	6,360	12,615	5,531	0.00
8/17/2004	20.80	(3.20)	5,680	11,266	5,539	0.00
8/18/2004	19.02	(4.98)	3,620	7,180	5,433	0.00
8/19/2004	20.03	(3.97)	4,640	9,203	5,391	0.00
8/20/2004	20.83	(3.17)	5,720	11,345	5,408	0.00
8/21/2004	21.16	(2.84)	6,180	12,258	5,444	0.07
8/22/2004	21.33	(2.67)	6,440	12,774	5,490	0.32
8/23/2004	21.38	(2.62)	6,510	12,912	5,534	0.18
8/24/2004	21.09	(2.91)	6,070	12,040	5,556	0.05
8/25/2004	19.66	(4.34)	4,240	8,410	5,504	0.00
8/26/2004	20.24	(3.76)	4,930	9,778	5,481	0.00
8/27/2004	21.03	(2.97)	5,980	11,861	5,500	0.00
8/28/2004	21.67	(2.33)	7,000	13,884	5,554	0.00
8/29/2004	22.26	(1.74)	8,230	16,324	5,646	0.00
8/30/2004	22.56	(1.44)	9,040	17,931	5,759	0.00
8/31/2004	22.39	(1.61)	8,560	16,979	5,849	0.00
Avg or Tot	20.82	(3.18)	5,849	359,662		0.73

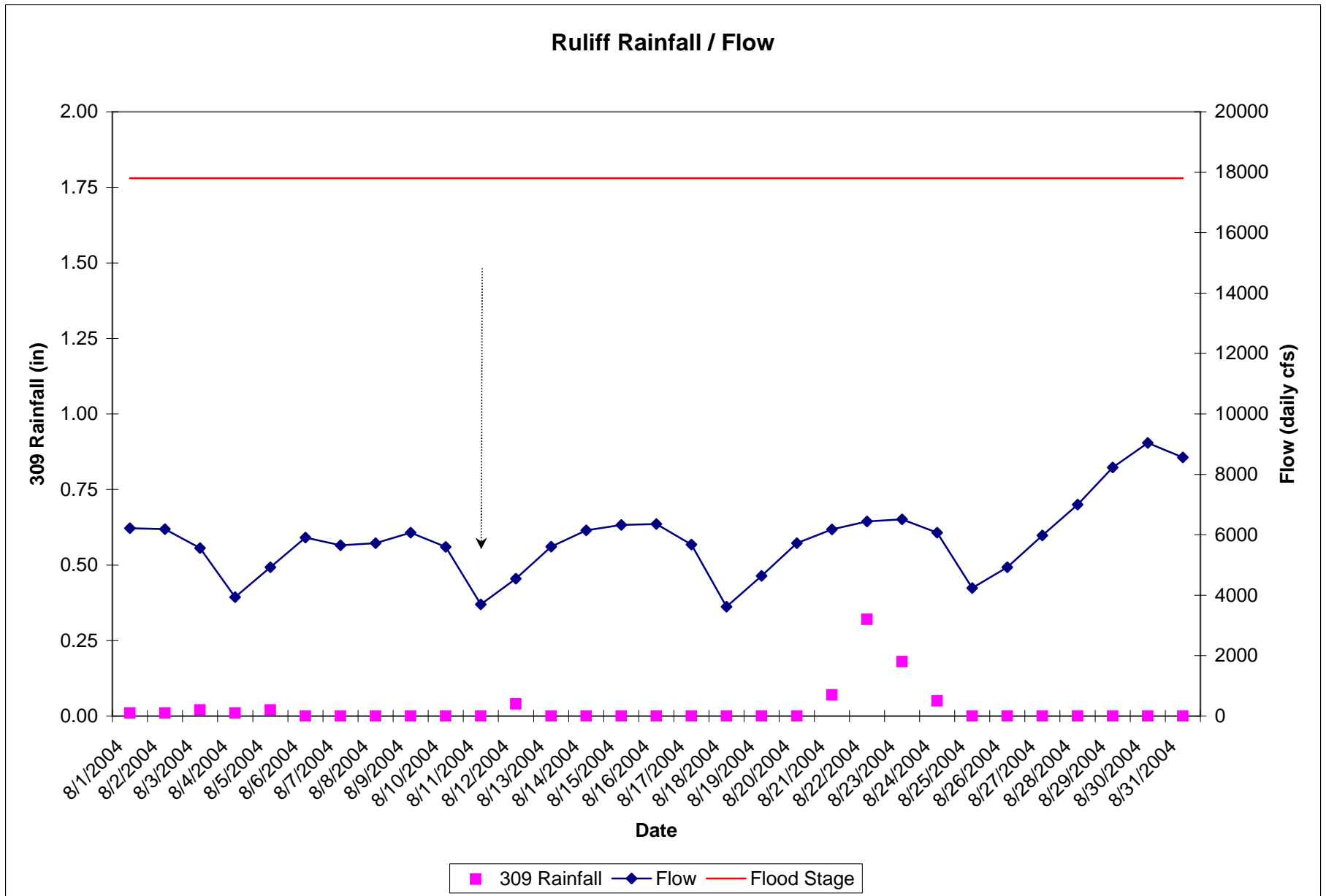
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 8/11/2004

SABINE RIVER AUTHORITY OF TEXAS

August 2004



Lower Sabine Basin sampled on 8/11/2004

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

August 2004

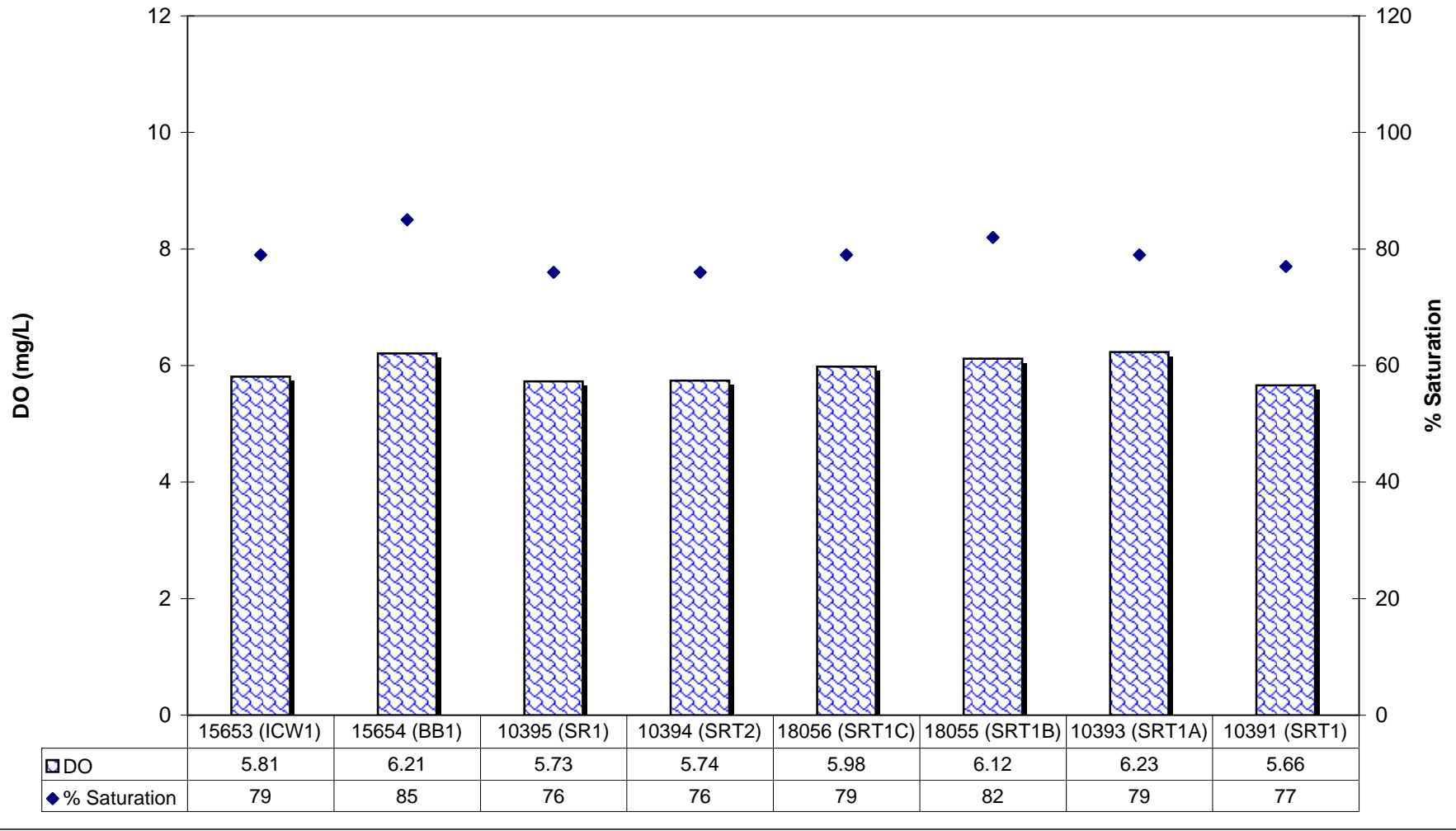
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
8/12/04 10:00 AM	1.05	15653 (ICW1)	30.5	7.17	5.81	79	4636	2	0.64	5.68	27	10	*	< 0.02	0.05	< 0.04	4	*	*
8/12/04 10:37 AM	1.01	15654 (BB1)	30.1	7.39	6.21	85	8377	5	0.51	5	131	7	*	< 0.02	< 0.02	< 0.04	3	*	*
8/12/04 9:05 AM	1.00	10395 (SR1)	29.9	7.17	5.73	76	164	*	0.46	9.59	4	*	*	< 0.02	0.02	< 0.04	6	*	*
8/12/04 9:25 AM	1.00	10394 (SRT2)	30.2	7.12	5.74	76	151	< 1	0.56	7.18	10	3	*	< 0.02	0.02	0.04	6	*	*
8/12/04 9:38 AM	1.00	18056 (SRT1C)	29.9	7.18	5.98	79	771	< 1	0.62	7.21	4	24	*	< 0.02	0.03	< 0.04	6	*	*
8/12/04 10:10 AM	1.00	18055 (SRT1B)	30	7.2	6.12	82	2938	2	0.67	6.53	30	7	*	< 0.02	0.05	< 0.04	5	*	*
8/12/04 10:20 AM	1.00	10393 (SRT1A)	30.2	7.22	6.23	79	4853	3	0.67	5.88	7	7	*	< 0.02	0.05	< 0.04	4	*	*
8/12/04 10:52 AM	1.00	10391 (SRT1)	30.2	7.26	5.66	77	6484	4	0.67	6.42	22	9	*	< 0.02	0.05	< 0.04	3	*	*

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

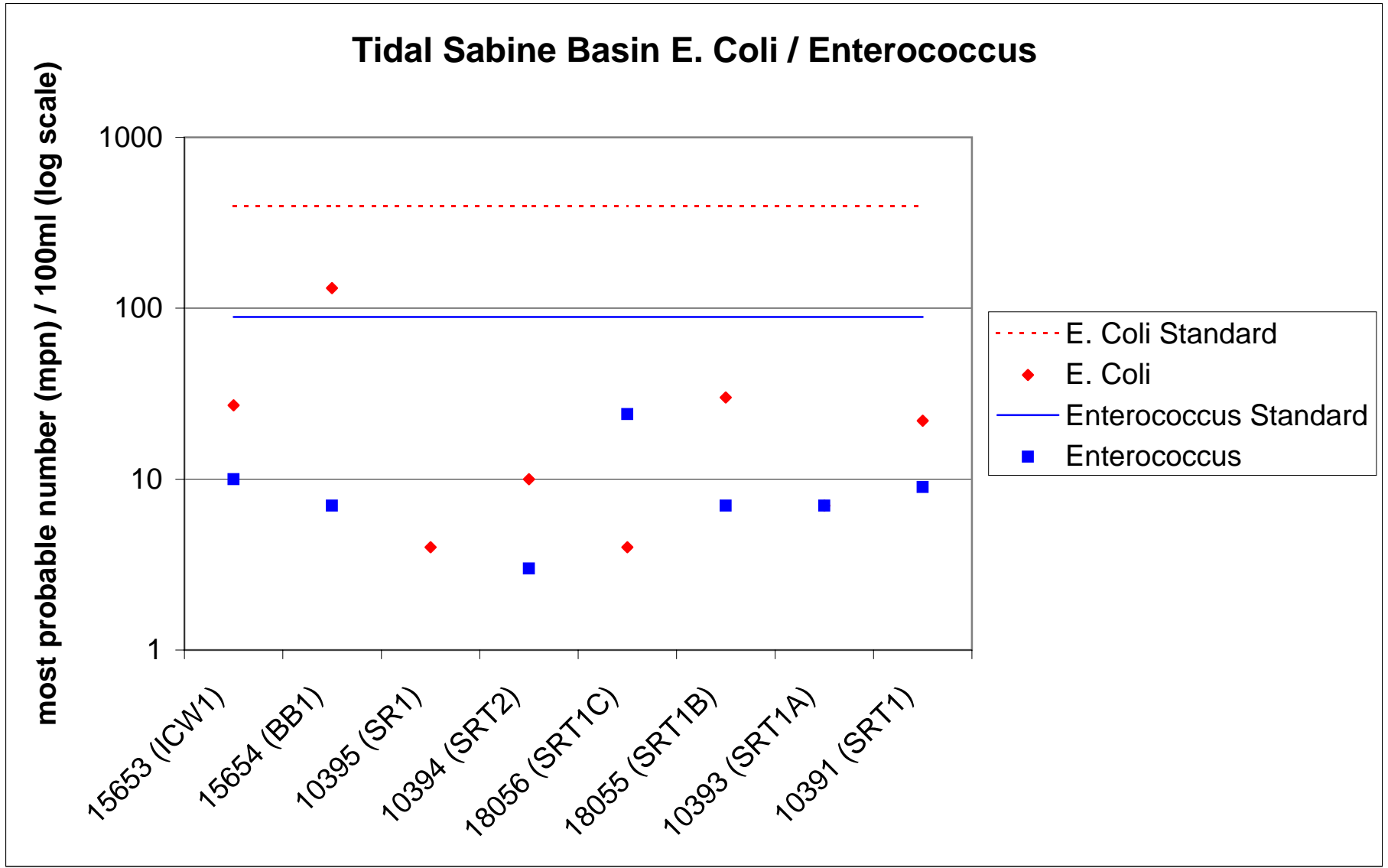
August 2004

Tidal Sabine Basin DO / % Saturation



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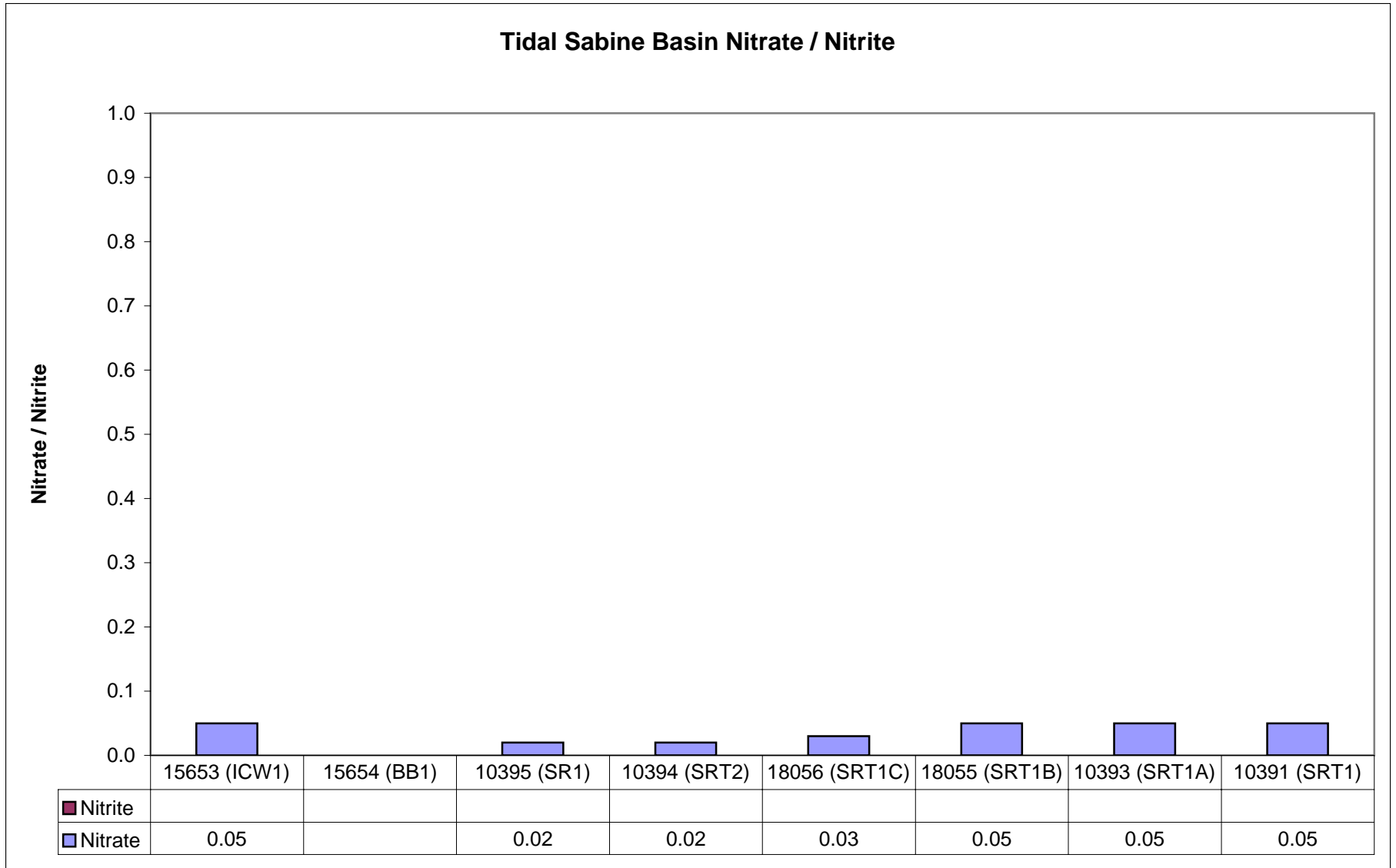
August 2004



Stations without values were not sampled on this run (see page 38).

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August 2004



Stations without values below detection limit (< 0.02 mg/L) on this run (see page 38)

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

August 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
8/12/04 10:00 AM	1.05	15653 (ICW1)	0.3	30.5	7.17	5.81	79	4636	2
			3	30.5	7.19	5.66	76	4727	3
			6	30.6	7.18	5.64	76	4757	3
8/12/04 10:37 AM	1.01	15654 (BB1)	0.3	30.1	7.39	6.21	85	8377	5
			2.7	30.1	7.41	6.08	84	8387	5
8/12/04 9:25 AM	1.00	10394 (SRT2)	0.3	30.2	7.12	5.74	76	151	< 1
			3.5	30.2	7.09	5.8	77	151	< 1
			7.5	30.2	7	5.86	78	151	< 1
8/12/04 9:38 AM	1.00	18056 (SRT1C)	0.3	29.9	7.18	5.98	79	771	< 1
			2.5	29.9	7.39	5.68	76	823	< 1
			4.8	30.9	7.04	2.44	34	14530	8
			11.2	30.9	7.02	0.65	9	24110	15
8/12/04 10:10 AM	1.00	18055 (SRT1B)	0.3	30	7.2	6.12	82	2938	2
			2.5	30.2	7.23	5.63	76	4356	2
			5	30.9	7.17	3.81	60	10520	6
			9.1	30.9	7.06	1.61	22	21880	13
8/12/04 10:20 AM	1.00	10393 (SRT1A)	0.3	30.2	7.22	6.23	79	4853	3
			4	30.4	7.28	5.26	72	6017	4
			7.5	31.1	7.27	3.85	53	16980	10
8/12/2004 10:52	1	10391 (SRT1)	0.3	30.2	7.26	5.66	77	6484	4
			3.5	30.6	7.2	4.94	68	9484	5

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

August 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
8/1/2004	OUT	OUT	OUT	96	75	75	0.00
8/2/2004	OUT	OUT	OUT	94	75	75	0.00
8/3/2004	OUT	OUT	OUT	95	75	75	0.00
8/4/2004	OUT	OUT	OUT	94	74	74	0.00
8/5/2004	OUT	OUT	OUT	95	74	78	0.00
8/6/2004	OUT	OUT	OUT	97	76	76	0.01
8/7/2004	OUT	OUT	OUT	89	65	66	0.00
8/8/2004	OUT	OUT	OUT	88	66	68	0.00
8/9/2004	OUT	OUT	OUT	92	86	73	0.00
8/10/2004	OUT	OUT	OUT	94	73	73	0.00
8/11/2004	OUT	OUT	OUT	94	73	73	0.00
8/12/2004	OUT	OUT	OUT	95	71	71	0.05
8/13/2004	OUT	OUT	OUT	85	61	62	0.00
8/14/2004	OUT	OUT	OUT	85	58	58	0.00
8/15/2004	OUT	OUT	OUT	85	57	57	0.00
8/16/2004	OUT	OUT	OUT	86	57	61	0.00
8/17/2004	OUT	OUT	OUT	89	60	62	0.00
8/18/2004	OUT	OUT	OUT	91	61	65	0.00
8/19/2004	OUT	OUT	OUT	90	64	73	0.00
8/20/2004	OUT	OUT	OUT	92	73	80	0.00
8/21/2004	OUT	OUT	OUT	92	71	71	0.46
8/22/2004	OUT	OUT	OUT	92	70	74	0.55
8/23/2004	OUT	OUT	OUT	89	74	75	0.02
8/24/2004	OUT	OUT	OUT	92	75	78	0.33
8/25/2004	OUT	OUT	OUT	92	78	78	0.00
8/26/2004	OUT	OUT	OUT	93	76	78	0.00
8/27/2004	OUT	OUT	OUT	94	76	76	0.00
8/28/2004	OUT	OUT	OUT	94	74	75	0.00
8/29/2004	OUT	OUT	OUT	91	72	72	0.04
8/30/2004	OUT	OUT	OUT	89	73	72	0.00
8/31/2004	OUT	OUT	OUT	89	67	67	0.00
Avg or Tot	OUT	OUT	OUT	91	70	71	1.46

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

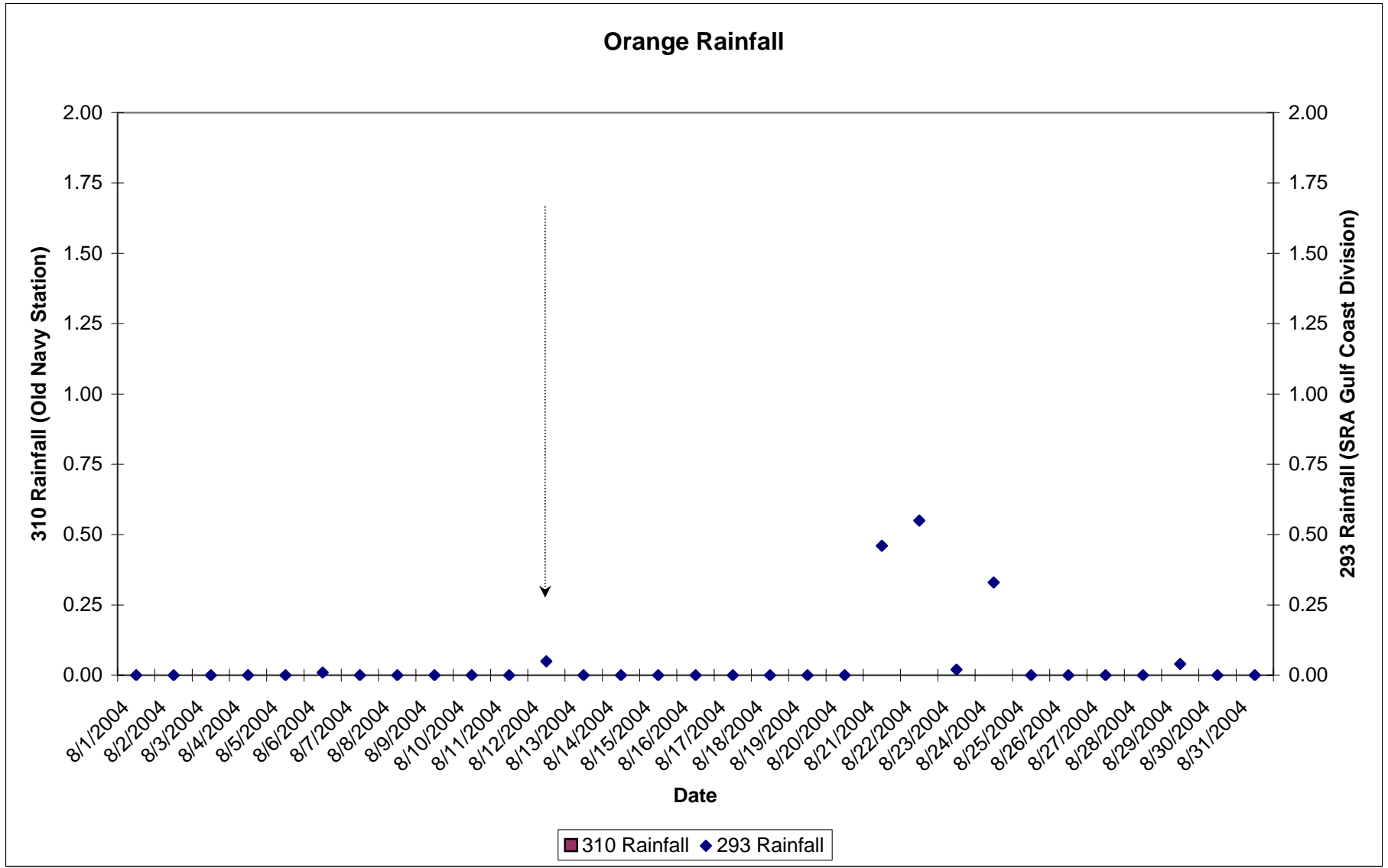
FS: Flood Stage = 4 Feet

OUT: Gage Out

Tidal Sabine Basin Sampled on 8/12/2004

SABINE RIVER AUTHORITY OF TEXAS

August 2004



Tidal Sabine Basin Sampled on 8/12/2004