
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Report for December 2004. Water quality sampling was performed December 13th through December 16th. Recent weather (previous seven days) in the Sabine River Basin was cool, with daytime highs from the low 50s to the low 70s at Lake Tawakoni and at Lake Fork. Toledo Bend Reservoir and Orange had daytime highs from the high 50s to the mid 70s. Lows ranged from the low 40s to the mid 50s at Lake Tawakoni and at Lake Fork. Toledo Bend and Orange had lows ranging from the high 20s to the low 50s. The waters of Lake Tawakoni and Lake Fork were mixed, exhibiting no thermal stratification. During the 28 days prior to the sample run, the Upper Basin received 5.63 and 4.89 inches of rainfall as recorded at Lake Tawakoni and at Lake Fork, respectively. Lake Tawakoni and Lake Fork received 0.38 and 0.39 inches of rainfall the week preceding the sample run. Toledo Bend and Orange received 9.29 and 6.07 inches, respectively, during the 28 days prior to the sample run.

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

Most water quality parameter measurements at Upper Basin sites were consistent with water of high quality for the December sample run. The level of Lake Fork was recorded at 402.48 feet msl with 8 cfs releases and the level of Lake Tawakoni was recorded at 437.63 feet msl with 126 cfs releases at the time of sampling. LT23A, SR22, and SR19 exceeded the recommended screening criteria for chlorophyll *a*. LT23A, LT23C and LT23D had over 100% saturation for dissolved oxygen. High chlorophyll *a* levels in conjunction with dissolved oxygen saturation values exceeding 100% often indicate algal bloom conditions. LF2 exceeded the recommended screening criteria for orthophosphate. All reservoir and stream sites were within approved Stream Standards levels for *E. coli*.

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

The December 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 170.29 feet msl with 14,844 cfs discharge at the time of sampling. Most reservoir stations were well mixed with similar readings throughout the water column. All parameters measured were within the Stream Standards criteria.

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 only trace amounts of rainfall during the seven days prior to the sample run. Most of the sites in this section of the Basin were well mixed with only slight stratification, and no anoxic conditions were found at any tidal station. No surface salinities were found at any tidal station and only two stations recorded a salinity value above 1 ppt at any depth. The greatest salinity measured was 13 ppt, found at station SRT1 at a depth of 10.8 meters. All parameters measured were within Stream Standards 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

December 2004

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FY 2005 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

December 2004

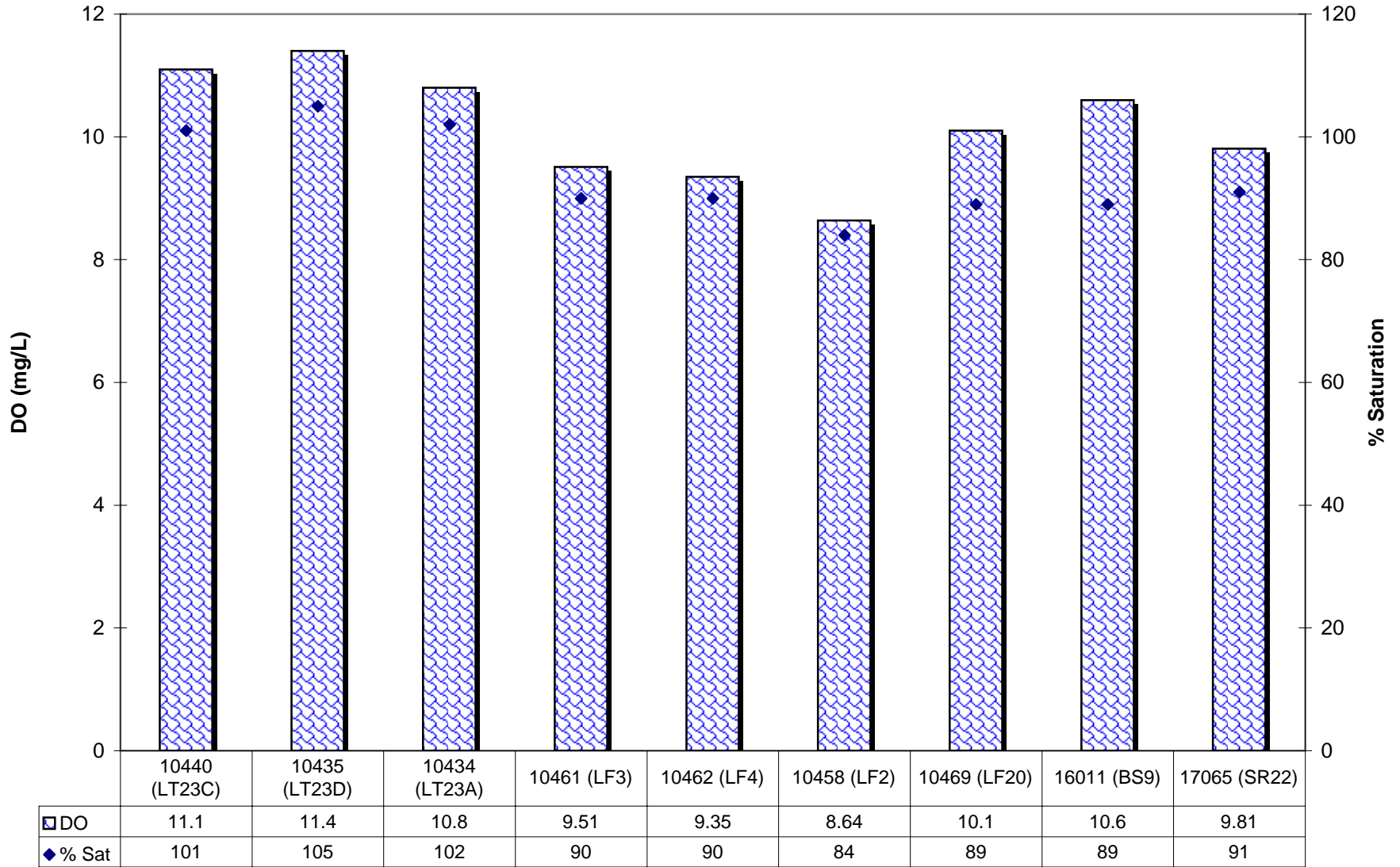
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
12/14/04 10:30 AM	7.00	10440 (LT23C)	10.5	8.83	11.1	101	218	*	0.56	15.1	9	*	< 0.02	0.04	< 0.04	6	*	*	< 10	11
12/14/04 11:16 AM	7.00	10435 (LT23D)	11.2	8.94	11.4	105	215	*	0.44	11.2	3	*	< 0.02	< 0.02	< 0.04	6	*	*	< 10	10
12/14/04 12:10 PM	7.00	10434 (LT23A)	11.9	8.61	10.8	102	215	*	0.82	5.45	< 1	40	< 0.02	0.2	< 0.04	6	*	*	< 10	10
12/14/04 1:37 PM	6.12	10461 (LF3)	12.2	7.68	9.51	90	188	*	1.4	3.12	< 1	11	< 0.02	0.18	< 0.04	5	*	*	15	18
12/14/04 1:20 PM	6.12	10462 (LF4)	12.7	7.66	9.35	90	187	*	1.46	2.63	1	8	< 0.02	0.23	< 0.04	5	*	*	15	18
12/14/04 2:20 PM	6.12	10458 (LF2)	13.2	7.52	8.64	84	187	*	1.31	2.2	4	5	< 0.02	0.3	0.05	5	*	*	15	18
12/14/04 8:40 AM	6.10	10469 (LF20)	8.81	7.17	10.1	89	308	*	0.45	18.6	73	*	< 0.02	0.095	< 0.04	7	*	*	40	45
12/15/04 6:30 AM	6.02	16011 (BS9)	7.04	6.55	10.6	89	207	*	0.89	8.72	67	*	< 0.02	0.2	< 0.04	7	*	*	25	25
12/14/04 9:35 AM	6.00	17065 (SR22)	11.2	7.85	9.81	91	230	*	0.25	28	71	28	< 0.02	0.22	< 0.04	6	*	*	< 10	14
12/14/04 9:04 AM	6.00	10430 (SR21)	10.1	7.47	9.7	88	282	*	0.31	30	80	*	< 0.02	0.19	0.04	7	*	*	21	27
12/14/04 8:12 AM	6.00	10429 (SR19)	10.2	7.51	10.2	93	247	*	0.26	33.8	70	19	< 0.02	0.21	0.04	6	*	*	18	21
12/15/04 7:05 AM	5.00	10428 (SR17)	8.8	7.39	10.4	91	252	*	0.31	33.2	55	*	< 0.02	0.2	< 0.04	7	*	*	22	25
12/15/04 7:34 AM	5.00	10427 (SR16)	8.78	7.33	10.2	89	271	*	0.33	34.4	83	*	< 0.02	0.17	< 0.04	7	*	*	29	29
12/15/04 8:02 AM	5.00	10426 (SR15)	8.96	7.3	10.2	90	282	*	0.3	38.6	73	*	< 0.02	0.17	< 0.04	8	*	*	31	31
12/15/04 8:30 AM	5.00	10423 (SR14)	8.8	7.28	10.2	90	291	*	0.33	34.5	66	*	< 0.02	0.46	0.05	8	*	*	34	33
12/15/04 9:43 AM	5.00	13628 (SR11)	8.98	7.33	10.2	90	321	*	0.32	33.9	54	*	0.02	0.31	< 0.04	8	*	*	38	37
12/15/04 10:11 AM	5.00	10415 (SR10)	9.45	7.17	9.73	87	294	*	0.31	33.3	57	*	< 0.02	0.28	< 0.04	8	*	*	35	33

*: Not sampled on this run

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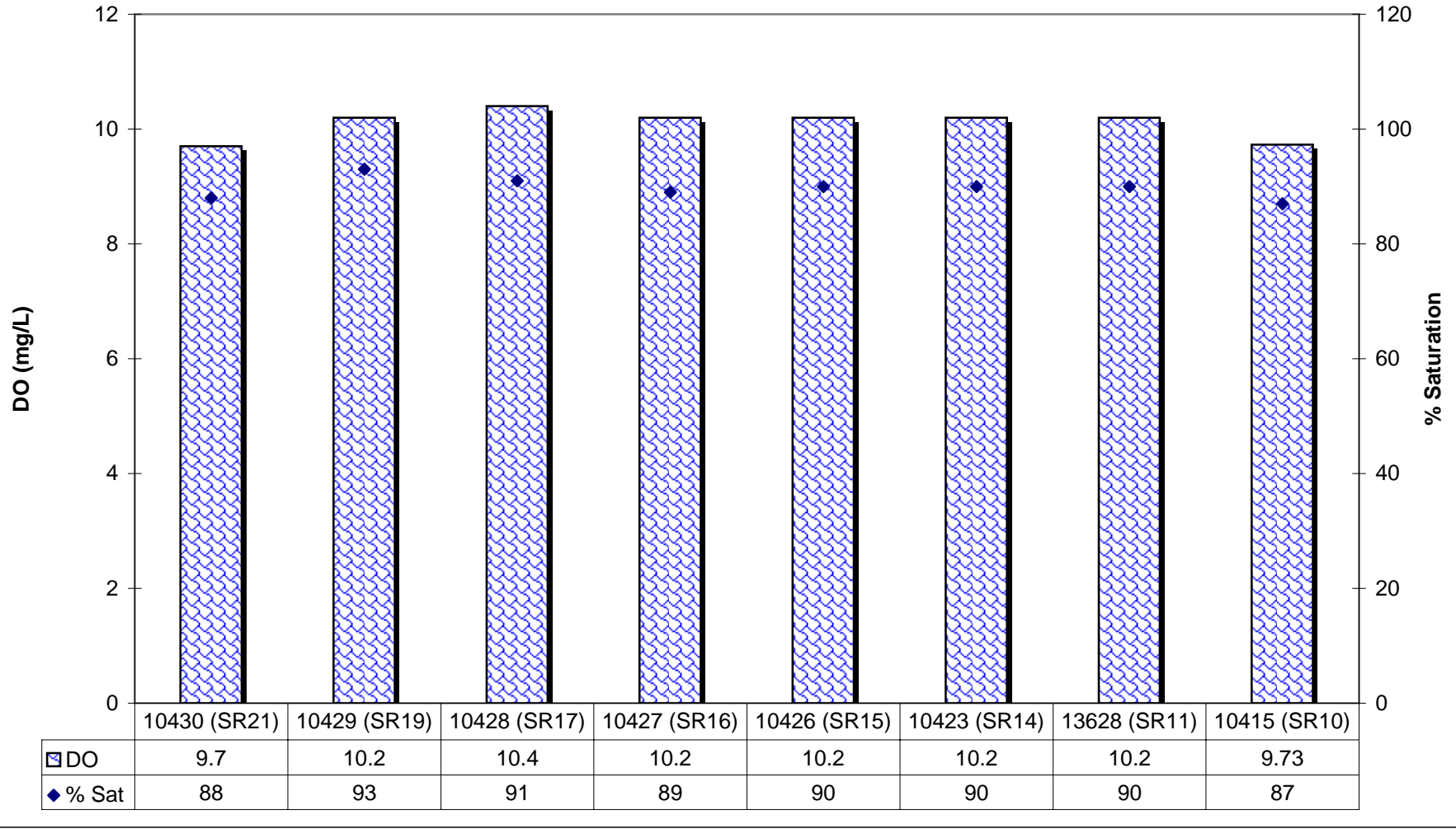
Upper Sabine Basin DO / % Saturation (1 of 2)



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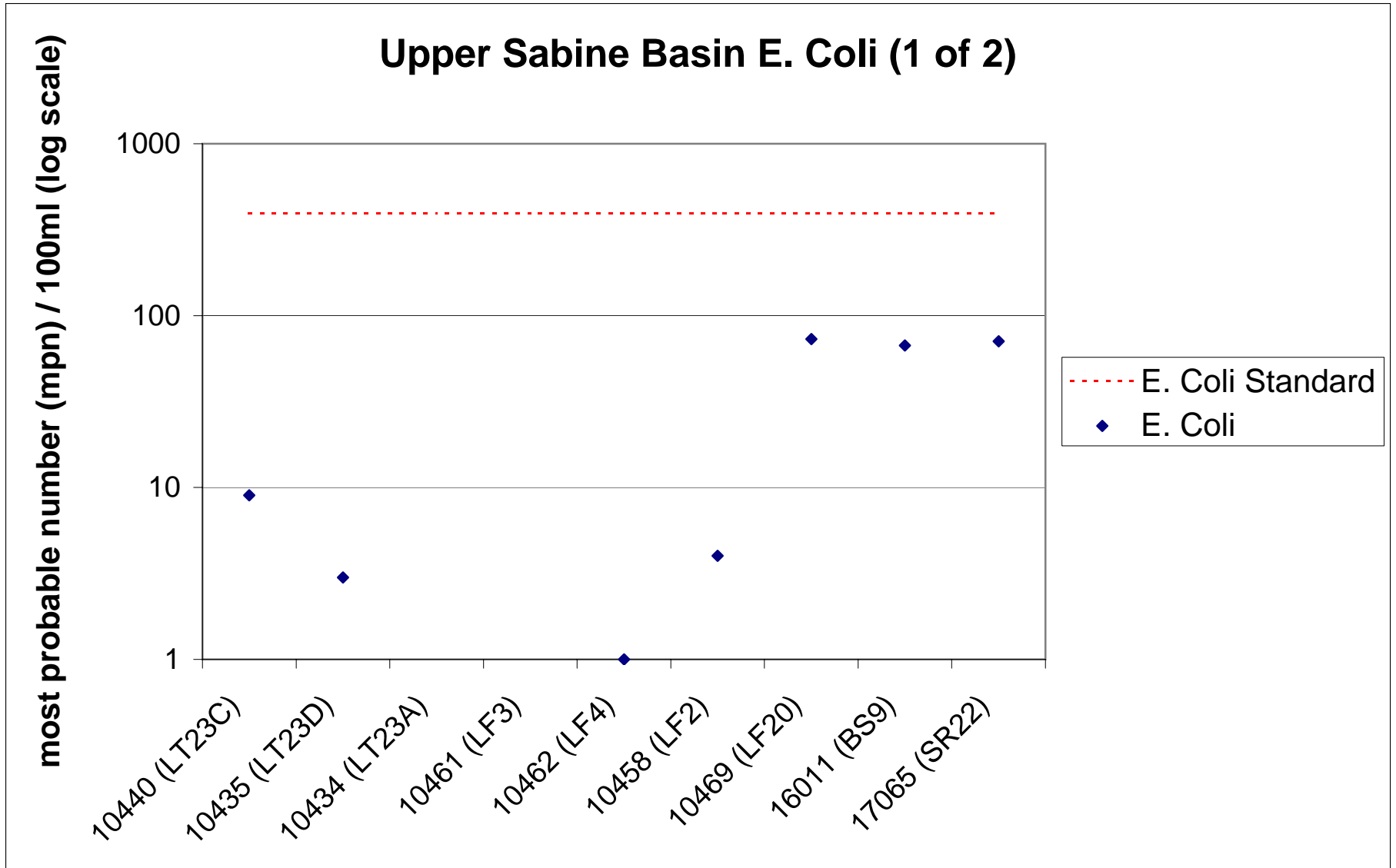
December 2004

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



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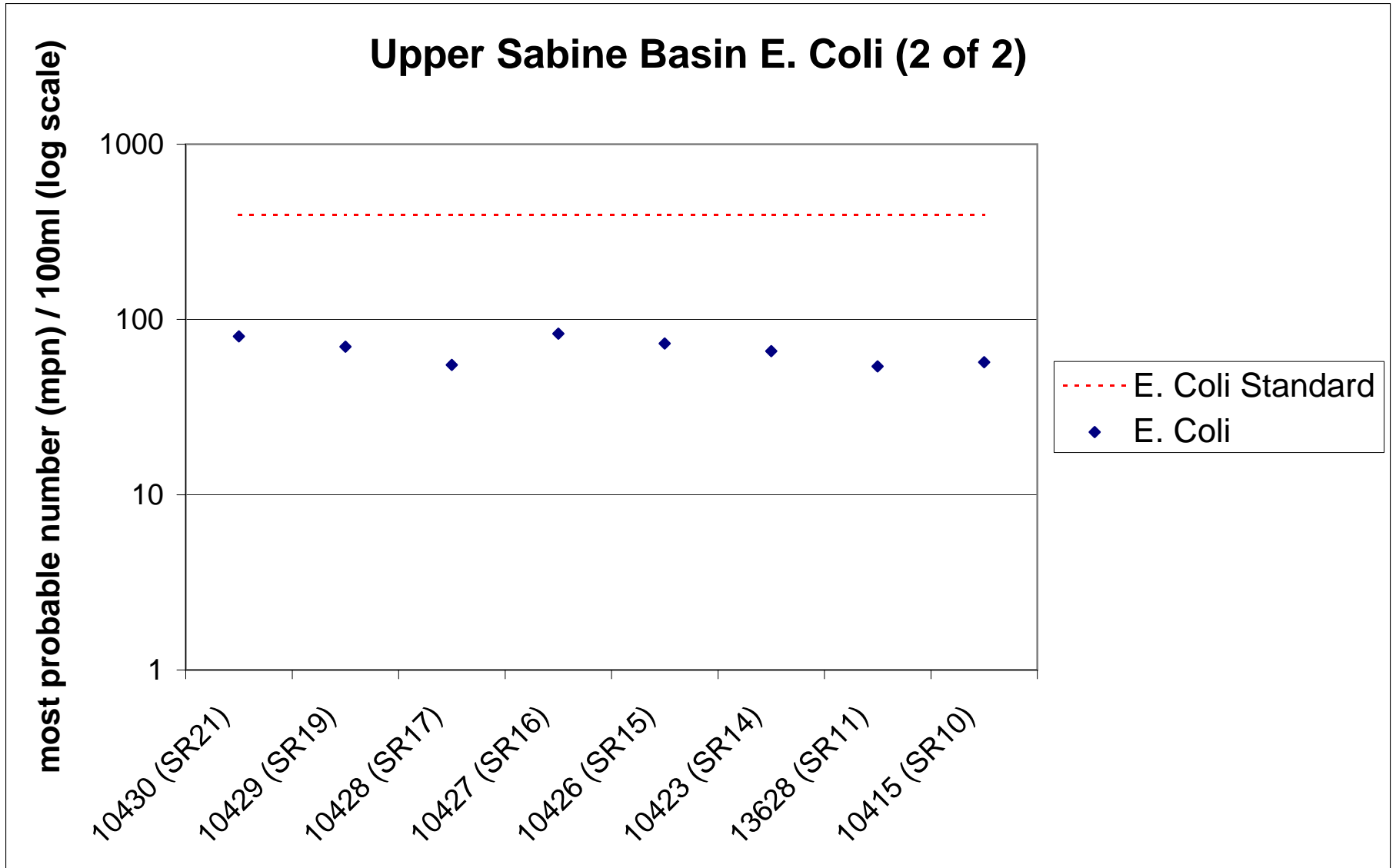
December 2004



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

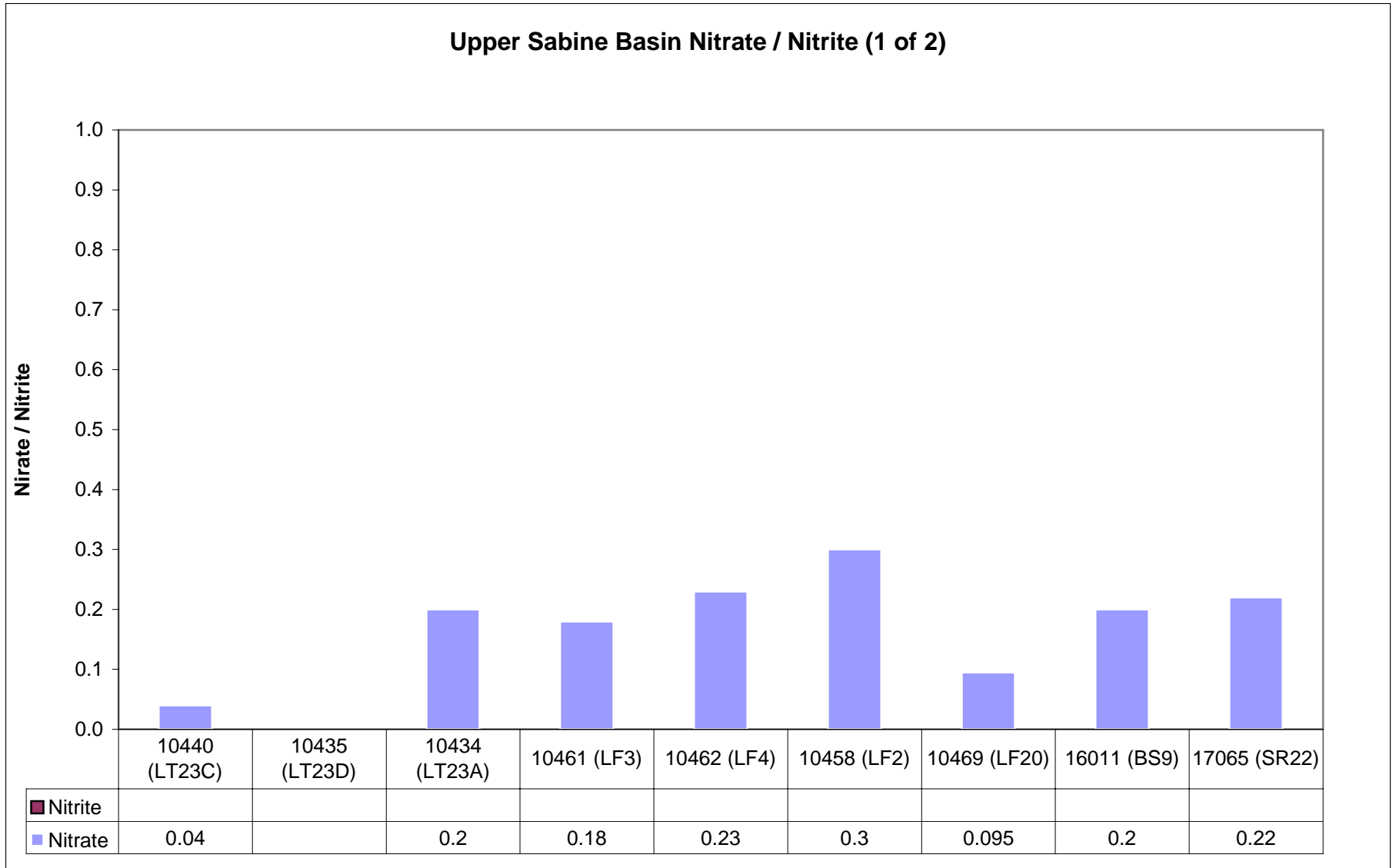
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December 2004

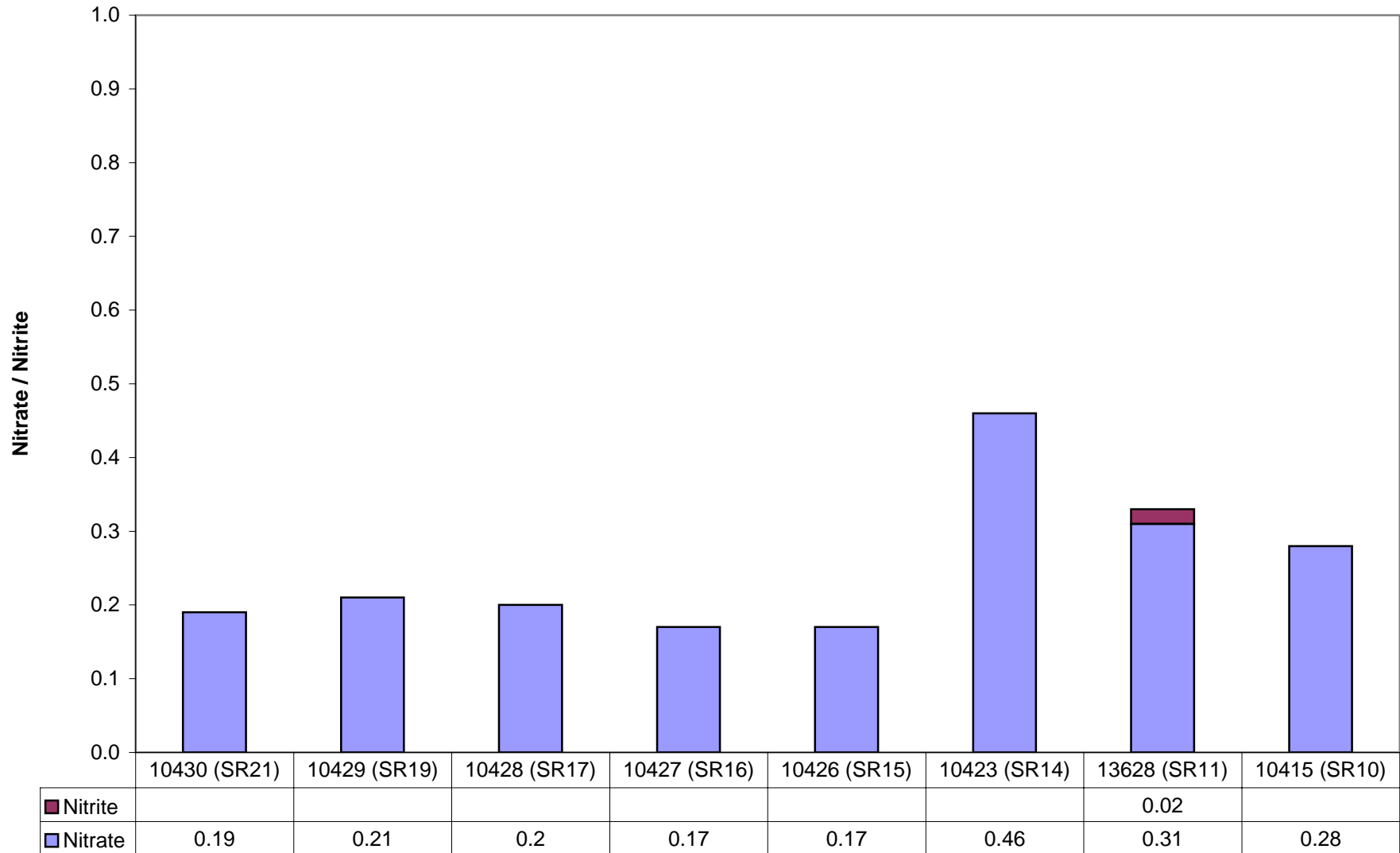


Stations without values below detection limit (< 0.02 mg/L) on this run (see page 2)

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Upper Sabine Basin Nitrate / Nitrite (2 of 2)



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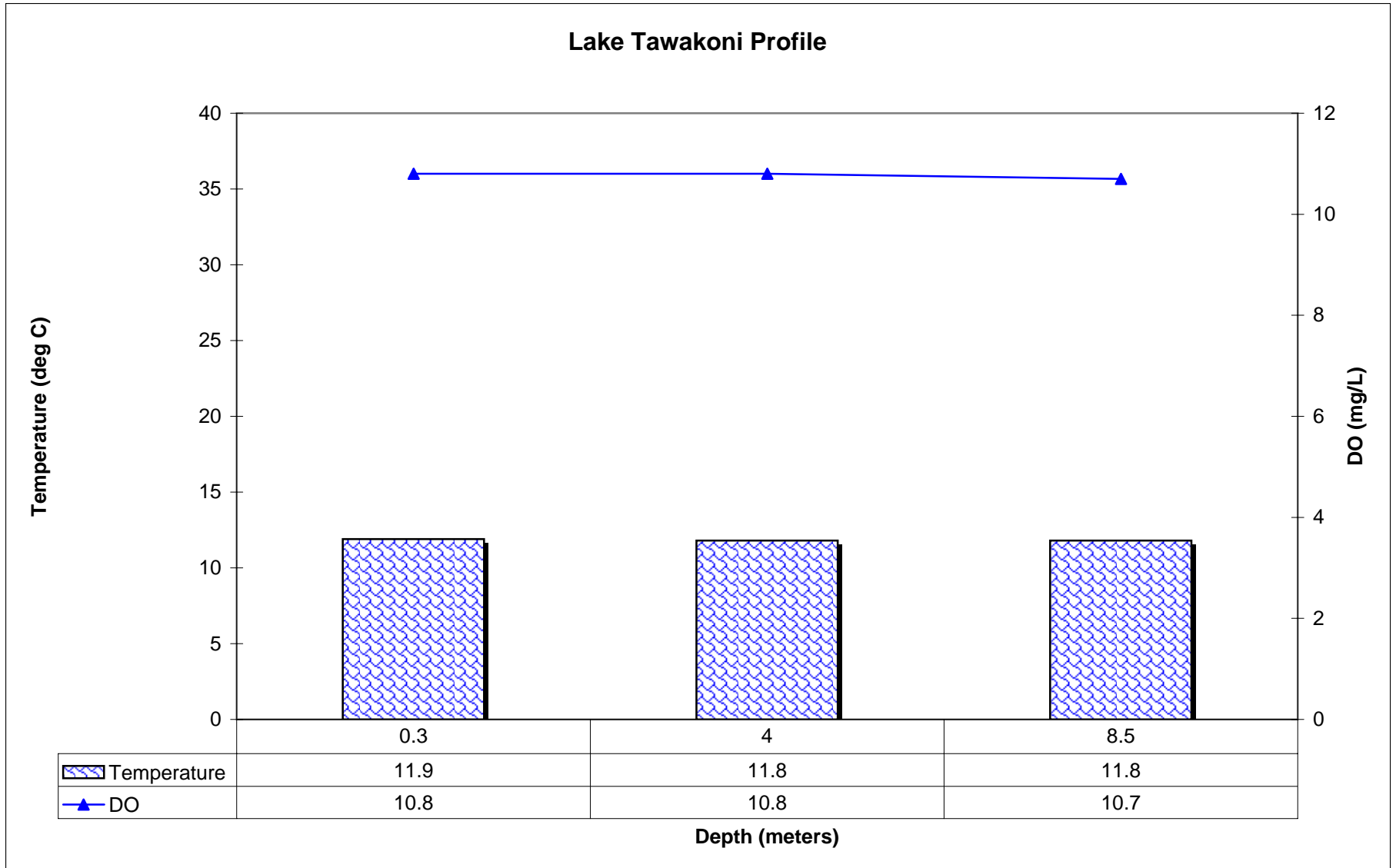
Upper Basin Profiles

December 2004

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
12/14/04 10:30 AM	7.00	10440 (LT23C)	0.3	10.5	8.83	11.1	101	218
			2.5	10.5	8.8	11.1	101	219
			4.4	10.4	8.76	10.9	99	216
12/14/04 11:16 AM	7.00	10435 (LT23D)	0.3	11.2	8.94	11.4	105	215
			5.5	10.6	8.6	10.5	96	220
			9.3	10.5	8.45	10.4	95	222
12/14/04 12:10 PM	7.00	10434 (LT23A)	0.3	11.9	8.61	10.8	102	215
			4	11.8	8.66	10.8	101	216
			8.5	11.8	8.61	10.7	100	213
12/14/04 1:37 PM	6.12	10461 (LF3)	0.3	12.2	7.68	9.51	90	188
			4	12.1	7.68	9.28	88	189
			9	11.9	7.72	9.45	90	184
12/14/04 1:20 PM	6.12	10462 (LF4)	0.3	12.7	7.66	9.35	90	187
			5	12.5	7.68	9.37	90	187
			11	12.3	7.74	9.89	94	180
12/14/04 2:20 PM	6.12	10458 (LF2)	0.3	13.2	7.52	8.64	84	187
			7.5	13.1	7.5	8.71	84	183
			15.5	12.9	7.5	8.69	84	180

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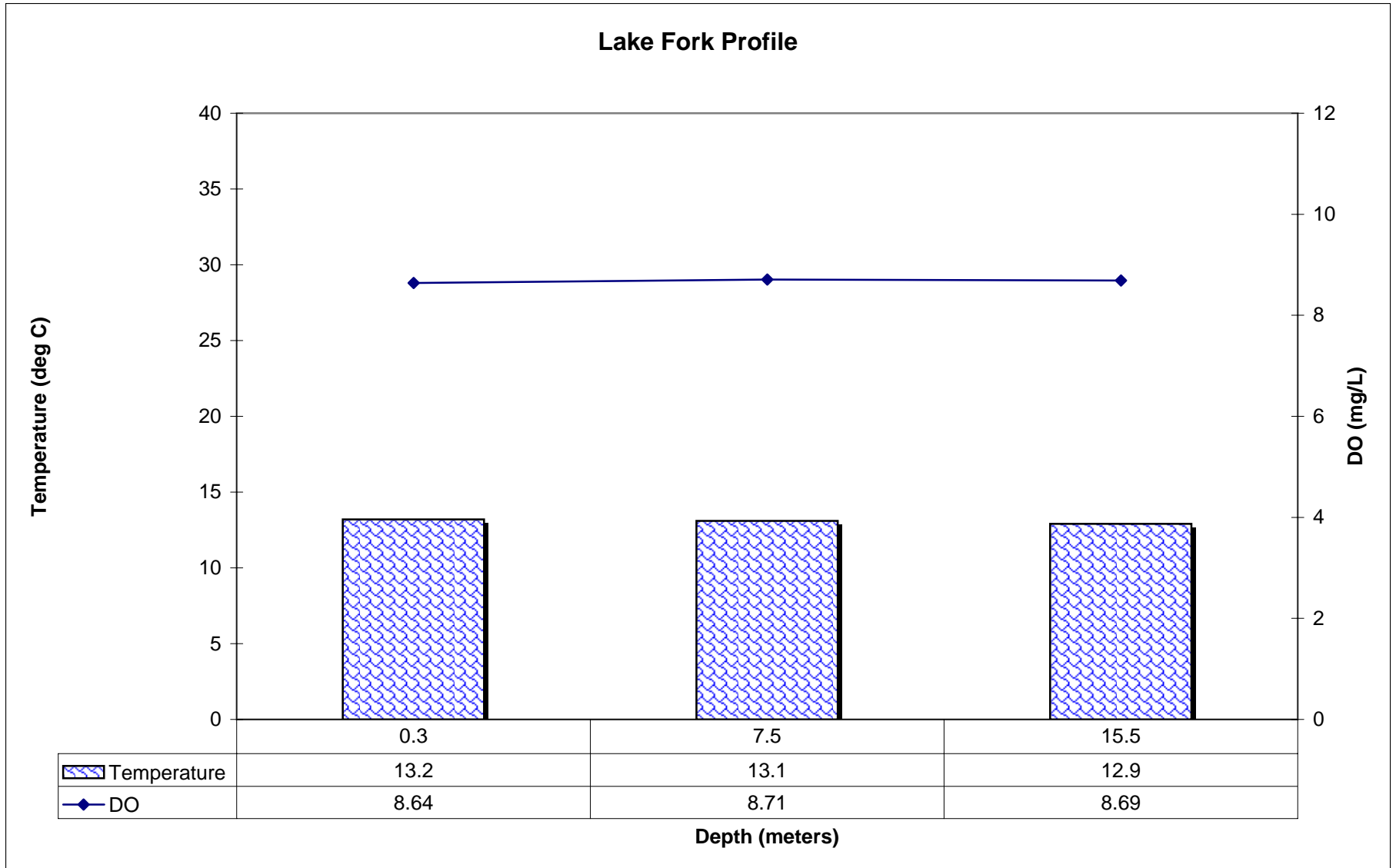
December 2004



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

December 2004

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
12/1/2004	437.61	0.11	46	43	32	0.00	0.09
12/2/2004	437.63	0.13	46	56	28	0.00	0.04
12/3/2004	437.62	0.12	46	59	31	0.00	0.17
12/4/2004	437.61	0.11	46	58	30	0.00	0.02
12/5/2004	437.62	0.12	46	62	34	0.18	0.00
12/6/2004	437.63	0.13	46	61	59	0.00	0.11
12/7/2004	437.67	0.17	126	70	49	0.38	0.06
12/8/2004	437.71	0.21	126	62	40	0.00	0.11
12/9/2004	437.73	0.23	126	64	44	0.00	0.04
12/10/2004	437.76	0.26	236	64	49	0.00	0.12
12/11/2004	437.71	0.21	236	60	37	0.00	0.13
12/12/2004	437.69	0.19	126	62	50	0.00	0.17
12/13/2004	437.69	0.19	126	71	40	0.00	0.17
12/14/2004	437.63	0.13	126	52	27	0.00	0.12
12/15/2004	437.56	0.06	26	42	22	0.00	0.00
12/16/2004	437.55	0.05	26	49	24	0.04	0.07
12/17/2004	437.55	0.05	26	50	36	0.05	0.00
12/18/2004	437.54	0.04	26	58	36	0.00	0.03
12/19/2004	437.54	0.04	26	62	34	0.00	0.08
12/20/2004	437.47	(0.03)	6	53	34	0.00	0.18
12/21/2004	437.49	(0.01)	6	65	44	0.00	0.19
12/22/2004	437.55	0.05	6	70	41	0.00	0.14
12/23/2004	437.48	(0.02)	26	44	16	0.38	0.00
12/24/2004	437.42	(0.08)	6	32	16	0.00	0.00
12/25/2004	437.39	(0.11)	6	32	18	0.00	0.00
12/26/2004	437.38	(0.12)	6	44	22	0.00	0.00
12/27/2004	437.37	(0.13)	6	62	28	0.00	0.00
12/28/2004	437.36	(0.14)	6	60	32	0.00	0.10
12/29/2004	437.36	(0.14)	6	64	37	0.00	0.14
12/30/2004	437.34	(0.16)	6	63	55	0.00	0.01
12/31/2004	437.34	(0.16)	6	70	61	0.00	0.04
Avg or Tot	437.55	0.05	56	57	36	1.03	2.33

	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.

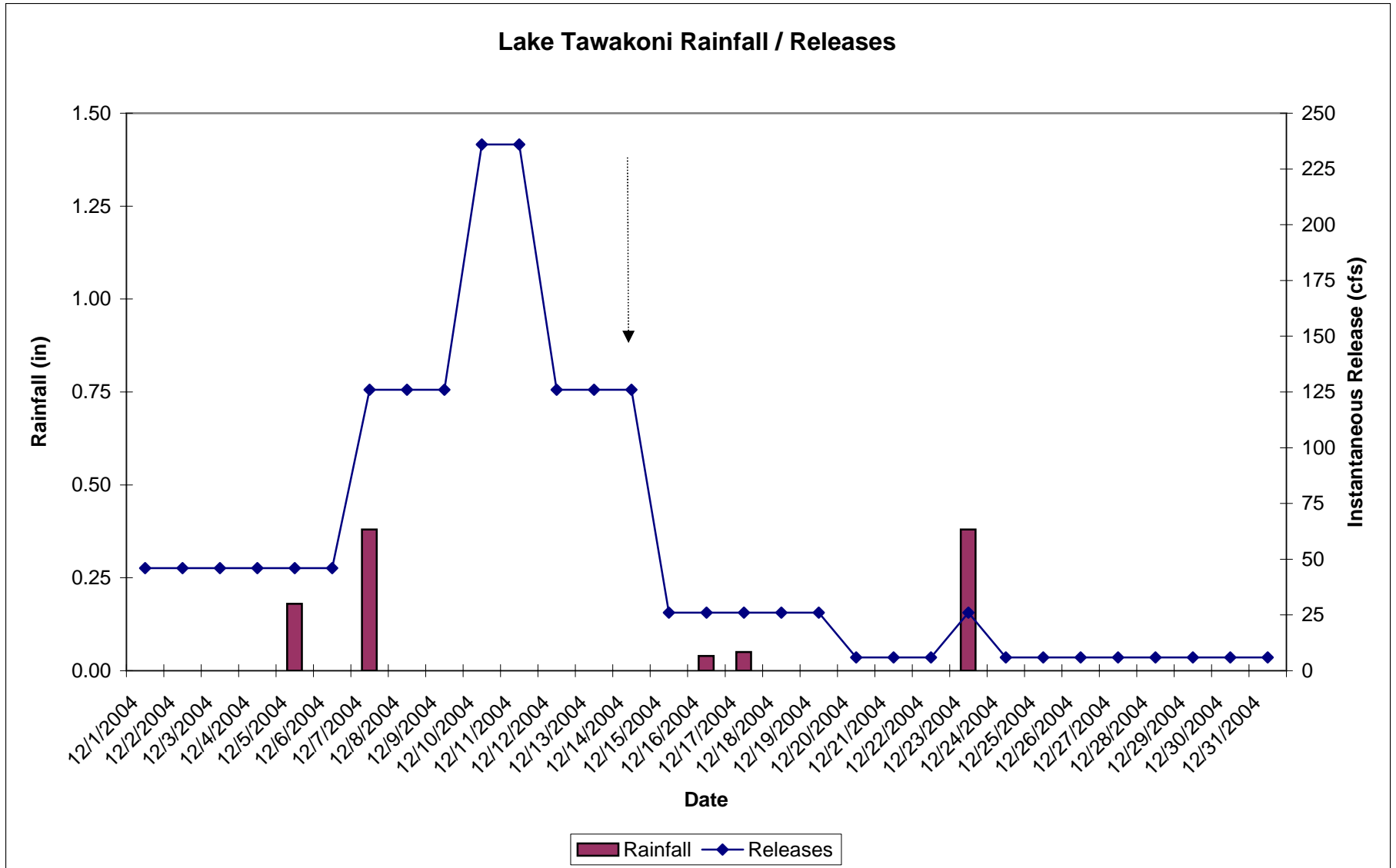
Lake Tawakoni Sampled on 12/14/2004

Lake Elev from USGS daily mean elevation
 USGS 08017400 Lk Tawakoni nr Wills Point, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08017400&agency_cd=USGS
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

December 2004



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Toledo Bend Weather and Reservoir Data

December 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
12/1/2004	170.68	(1.32)	56	32	0.08	0.28	14,652	29,062	14,744
12/2/2004	170.72	(1.28)	52	33	0.00	0.05	14,644	29,046	14,544
12/3/2004	170.73	(1.27)	59	38	0.00	0.09	14,686	29,129	14,744
12/4/2004	170.72	(1.28)	61	34	0.00	0.07	14,644	29,045	14,644
12/5/2004	170.67	(1.33)	59	41	0.33	0.03	14,669	29,096	14,694
12/6/2004	170.67	(1.33)	70	54	0.24	0.26	14,702	29,161	14,644
12/7/2004	170.77	(1.23)	73	55	0.83	NR	14,761	29,278	14,744
12/8/2004	170.76	(1.24)	66	42	0.00	0.16	14,732	29,220	14,819
12/9/2004	170.76	(1.24)	65	45	0.02	0.07	14,732	29,220	14,644
12/10/2004	170.86	(1.14)	72	52	0.00	0.12	14,744	29,244	14,938
12/11/2004	170.81	(1.19)	65	47	0.00	0.26	14,744	29,244	14,744
12/12/2004	170.63	(1.37)	59	39	0.00	0.11	14,744	29,244	14,744
12/13/2004	170.75	(1.25)	75	40	0.00	0.10	14,794	29,343	14,744
12/14/2004	170.58	(1.42)	59	35	0.00	0.21	14,794	29,343	14,844
12/15/2004	170.29	(1.71)	47	27	0.00	0.00	14,869	29,492	14,844
12/16/2004	170.23	(1.77)	50	25	0.00	0.20	14,881	29,516	14,869
12/17/2004	170.12	(1.88)	49	37	0.51	0.00	14,913	29,579	14,894
12/18/2004	169.94	(2.06)	58	37	0.00	0.06	14,952	29,657	14,944
12/19/2004	169.87	(2.13)	63	37	0.00	0.08	15,019	29,790	14,969
12/20/2004	169.48	(2.52)	57	31	0.00	0.16	15,107	29,964	15,119
12/21/2004	169.43	(2.57)	65	30	0.00	0.13	15,094	29,938	15,119
12/22/2004	169.59	(2.41)	71	52	0.26	0.05	15,227	30,202	15,069
12/23/2004	169.62	(2.38)	60	31	1.20	0.30	15,157	30,063	15,344
12/24/2004	169.53	(2.47)	39	24	0.00	FZ	15,301	30,349	15,244
12/25/2004	169.40	(2.60)	33	24	0.00	FZ	15,322	30,391	15,354
12/26/2004	169.29	(2.71)	42	27	0.00	FZ	15,236	30,220	15,294
12/27/2004	169.19	(2.81)	54	27	0.00	NR	15,182	30,113	15,194
12/28/2004	169.03	(2.97)	61	32	0.00	0.15	15,156	30,061	15,169
12/29/2004	168.89	(3.11)	65	35	0.00	0.14	15,144	30,038	15,144
12/30/2004	168.76	(3.24)	68	48	0.00	0.04	11,656	23,119	15,069
12/31/2004	168.75	(3.25)	69	58	0.02	0.16	7,574	15,023	7,574
Avg or Tot	170.05	(1.95)	59	38	3.49	3.28	14,575	896,190	

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.

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

NR: No Reading

FZ: Gage Frozen

Toledo Bend Sampled on 12/13,14,15/2004

Lake Elev from USGS daily mean elevation

USGS 08025350 Toledo Bd Res nr Burkeville, TX

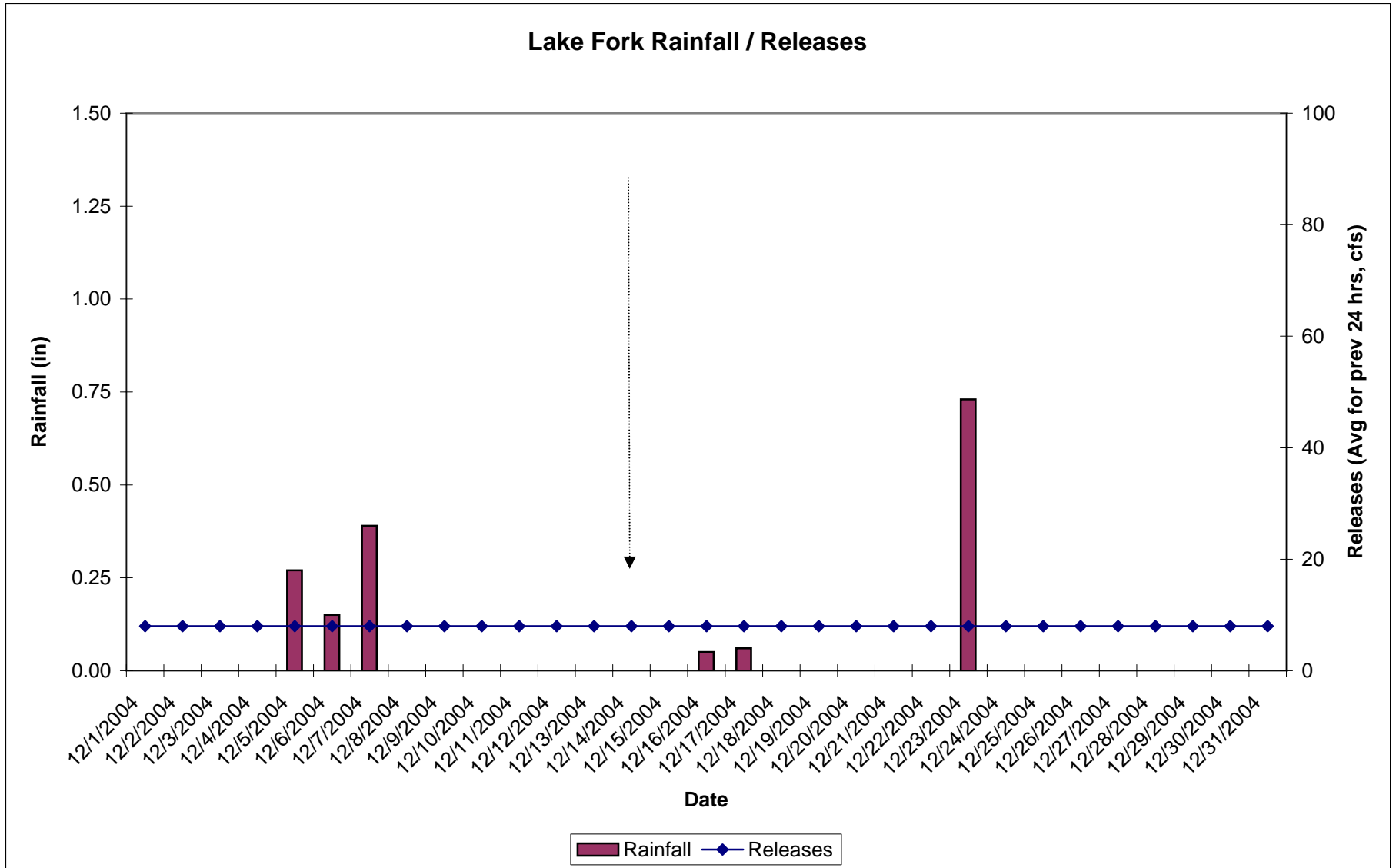
http://waterdata.usgs.gov/bx/nwis/dv/?site_no=08025350&agency_cd=USGS

Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

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FY 2005 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

December 2004

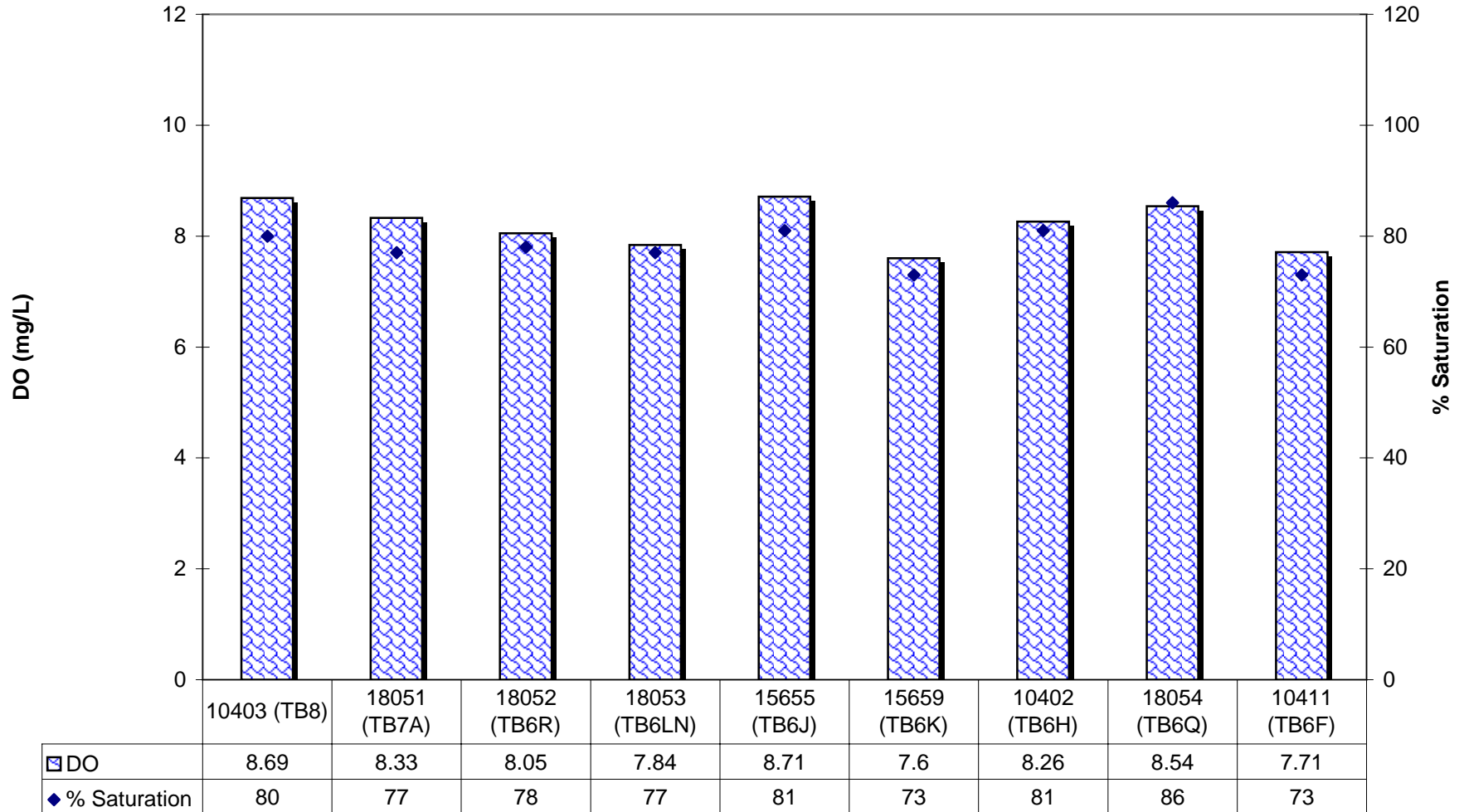
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
12/15/04 10:50 AM	4.00	10403 (TB8)	10.6	6.99	8.69	80	229	*	0.47	20.6	114	*	< 0.02	0.23	< 0.04	9	*	*	24	23
12/15/04 11:23 AM	4.00	18051 (TB7A)	11	6.91	8.33	77	218	*	0.4	20.8	157	*	< 0.02	0.19	< 0.04	9	*	*	22	22
12/13/04 11:31 AM	4.00	18052 (TB6R)	13.9	6.79	8.05	78	108	*	0.54	20	4	6	< 0.02	0.14	0.13	11	*	*	11	14
12/13/04 1:20 PM	4.00	18053 (TB6LN)	14.5	6.58	7.84	77	90	*	0.47	17.2	7	*	< 0.02	0.08	0.04	12	*	*	10	12
12/14/04 9:53 AM	4.00	15655 (TB6J)	12.5	6.8	8.71	81	122	*	0.3	32.4	53	*	< 0.02	0.12	0.04	9	*	*	10	24
12/14/04 11:59 AM	4.00	15659 (TB6K)	13.9	6.85	7.6	73	112	*	0.56	15.3	6	*	< 0.02	0.12	< 0.04	9	*	*	12	16
12/14/04 10:39 AM	4.00	10402 (TB6H)	14.2	7.21	8.26	81	151	*	0.93	4.92	< 1	9	< 0.02	0.13	< 0.04	8	*	*	17	16
12/13/04 2:03 PM	4.00	18054 (TB6Q)	15.5	7.22	8.54	86	144	*	1.12	3.22	3	*	< 0.02	0.15	< 0.04	7	*	*	16	15
12/14/04 10:15 AM	4.00	10411 (TB6F)	13	6.68	7.71	73	68	*	0.33	28.6	29	*	< 0.02	0.07	< 0.04	6	*	*	< 10	10
12/14/04 9:15 AM	4.00	10407 (TB6CN)	13.2	6.52	8.06	77	77	*	0.37	18.5	7	*	< 0.02	0.04	< 0.04	12	*	*	< 10	12
12/13/04 3:03 PM	4.00	10404 (TB6A)	16.1	7.2	8.49	87	139	*	1.77	1.6	2	< 3	< 0.02	0.15	< 0.04	6	*	*	15	14
12/15/04 12:10 PM	3.03	10340 (BA4)	11.8	6.81	9.71	89	176	*	0.26	32.5	29	*	< 0.02	0.1	< 0.04	9	*	*	< 10	40
12/15/04 10:18 AM	3.00	10401 (TB6S)	14.7	7.47	10.3	101	139	*	> 1.22	1.59	2	*	< 0.02	0.15	< 0.04	6	*	*	15	15
12/15/04 11:40 AM	3.00	10399 (SR5)	14.9	7.26	9.22	91	138	*	0.96	3.52	3	4	< 0.02	0.16	< 0.04	6	*	*	15	15
12/15/04 12:25 PM	3.00	10398 (SR3)	14.4	7.2	9.18	90	135	*	0.58	9.04	12	4	< 0.02	0.15	< 0.04	6	*	*	15	15
12/15/04 9:10 AM	2.05	10465 (BCC1)	9.9	6.61	10.4	92	40	*	0.42	12.1	52	*	< 0.02	0.07	< 0.04	6	*	*	< 10	< 10
12/15/04 8:35 AM	2.00	10397 (SR2)	12.8	6.79	8.22	77	120	*	0.36	11.6	32	< 3	< 0.02	0.1	< 0.04	7	*	*	13	14

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

December 2004

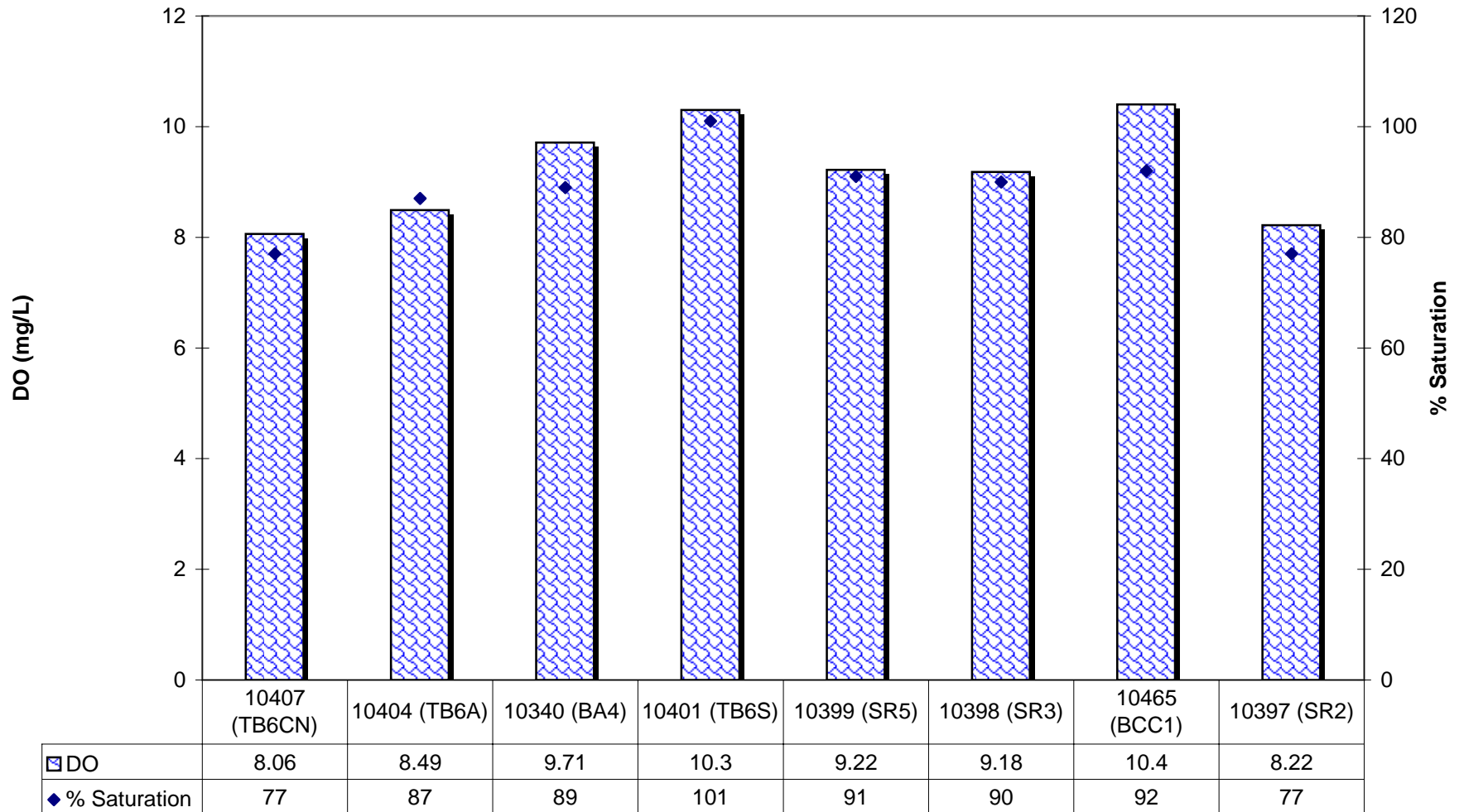
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

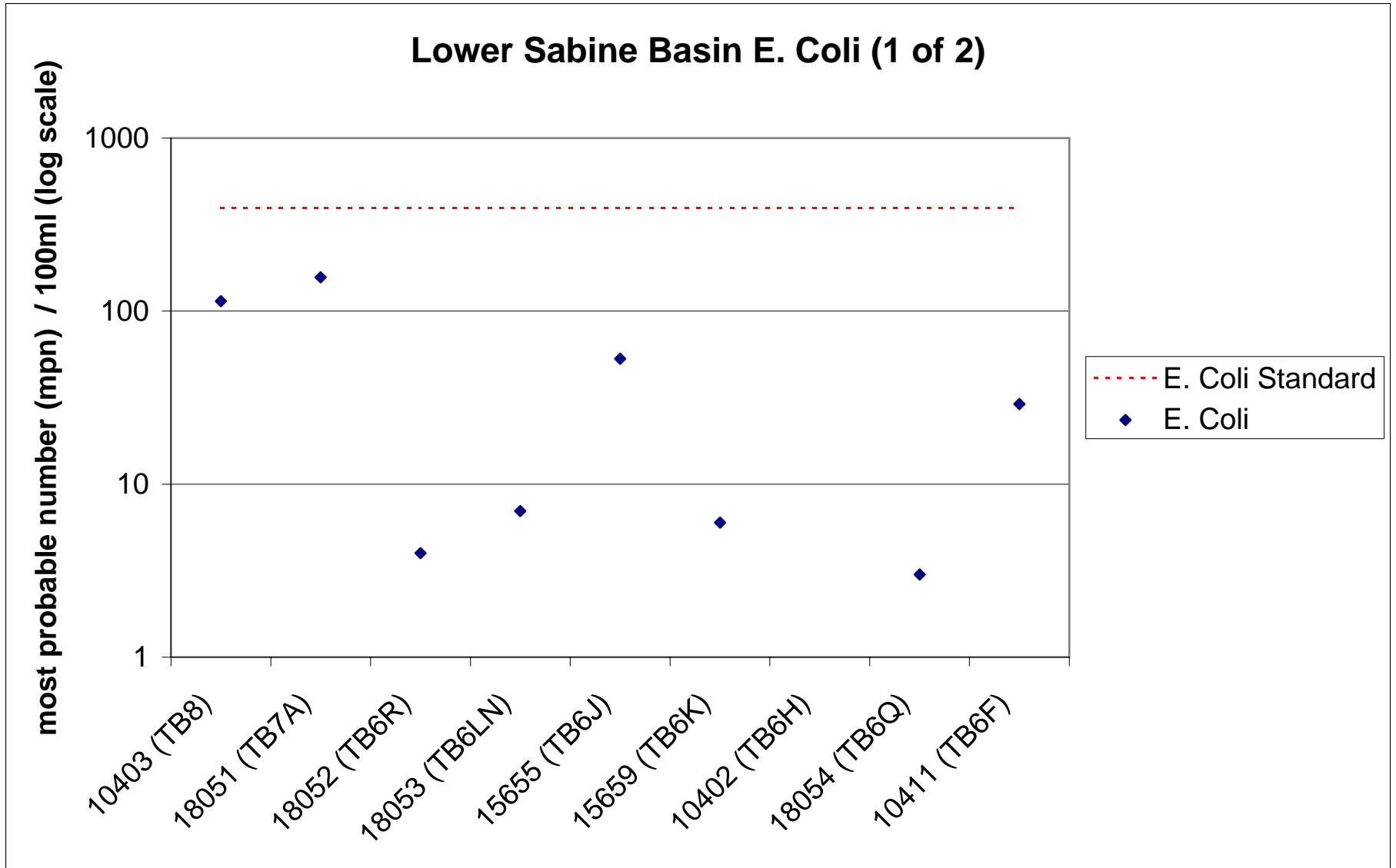
December 2004

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



SABINE RIVER AUTHORITY OF TEXAS

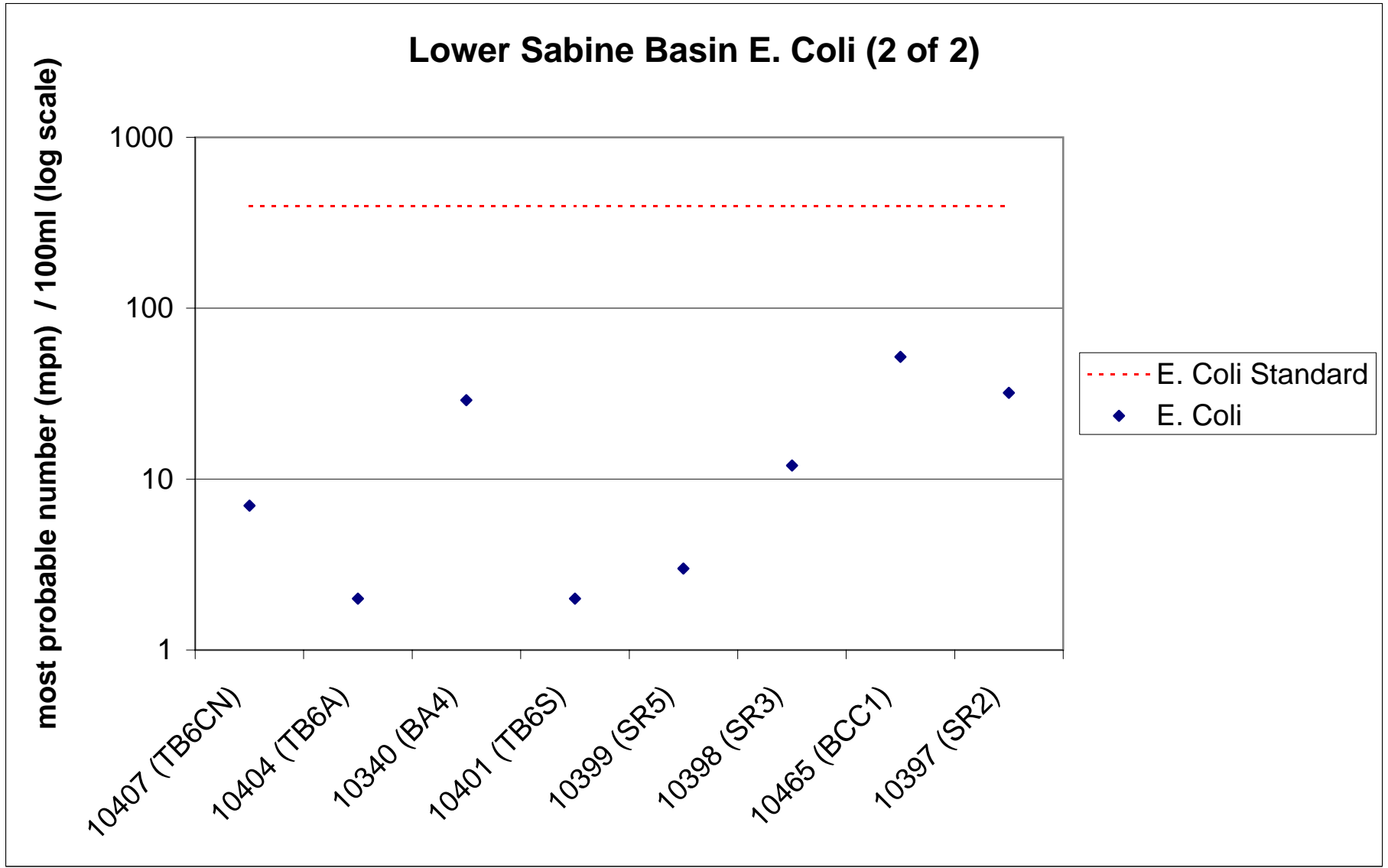
December 2004



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

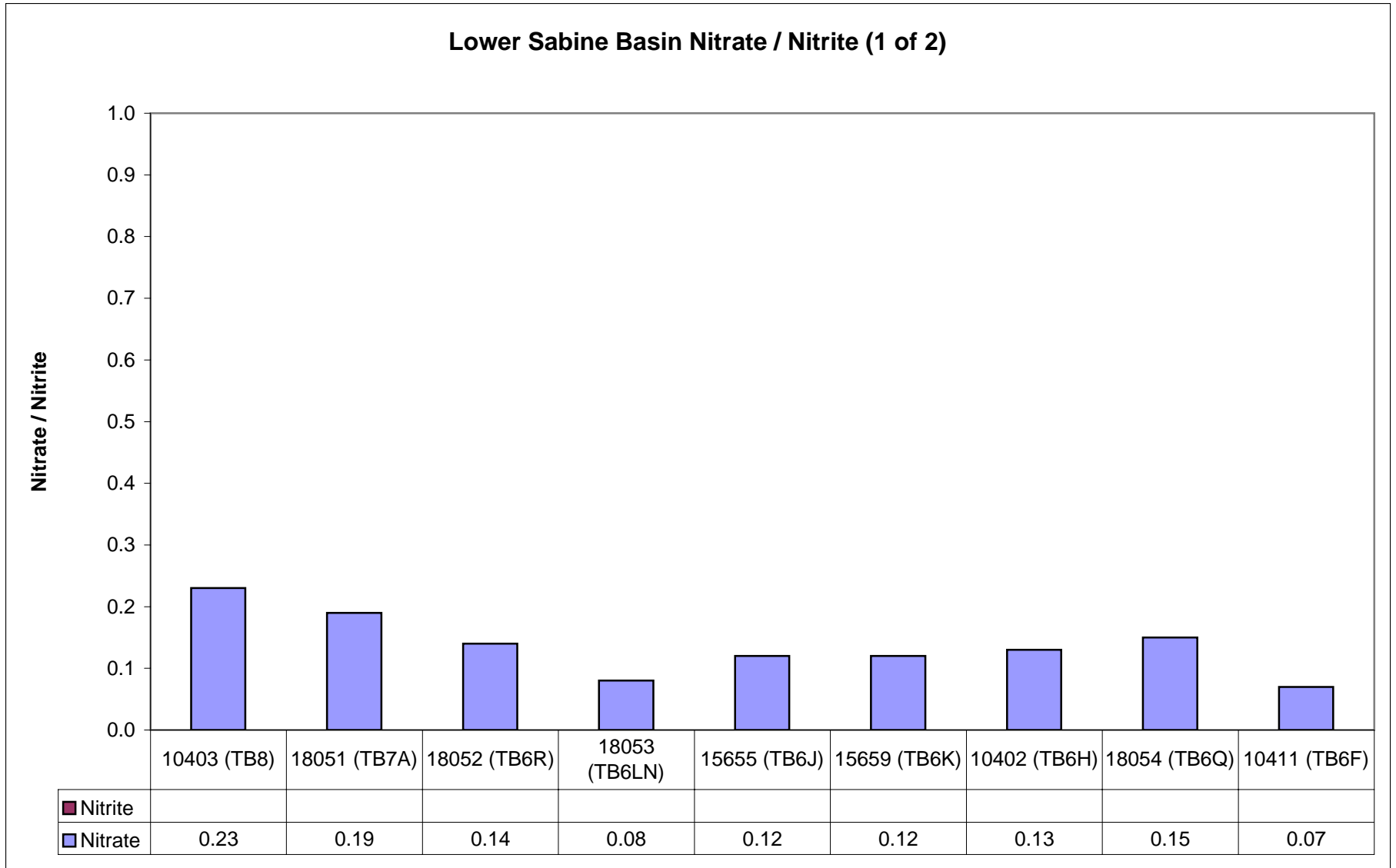
SABINE RIVER AUTHORITY OF TEXAS

December 2004



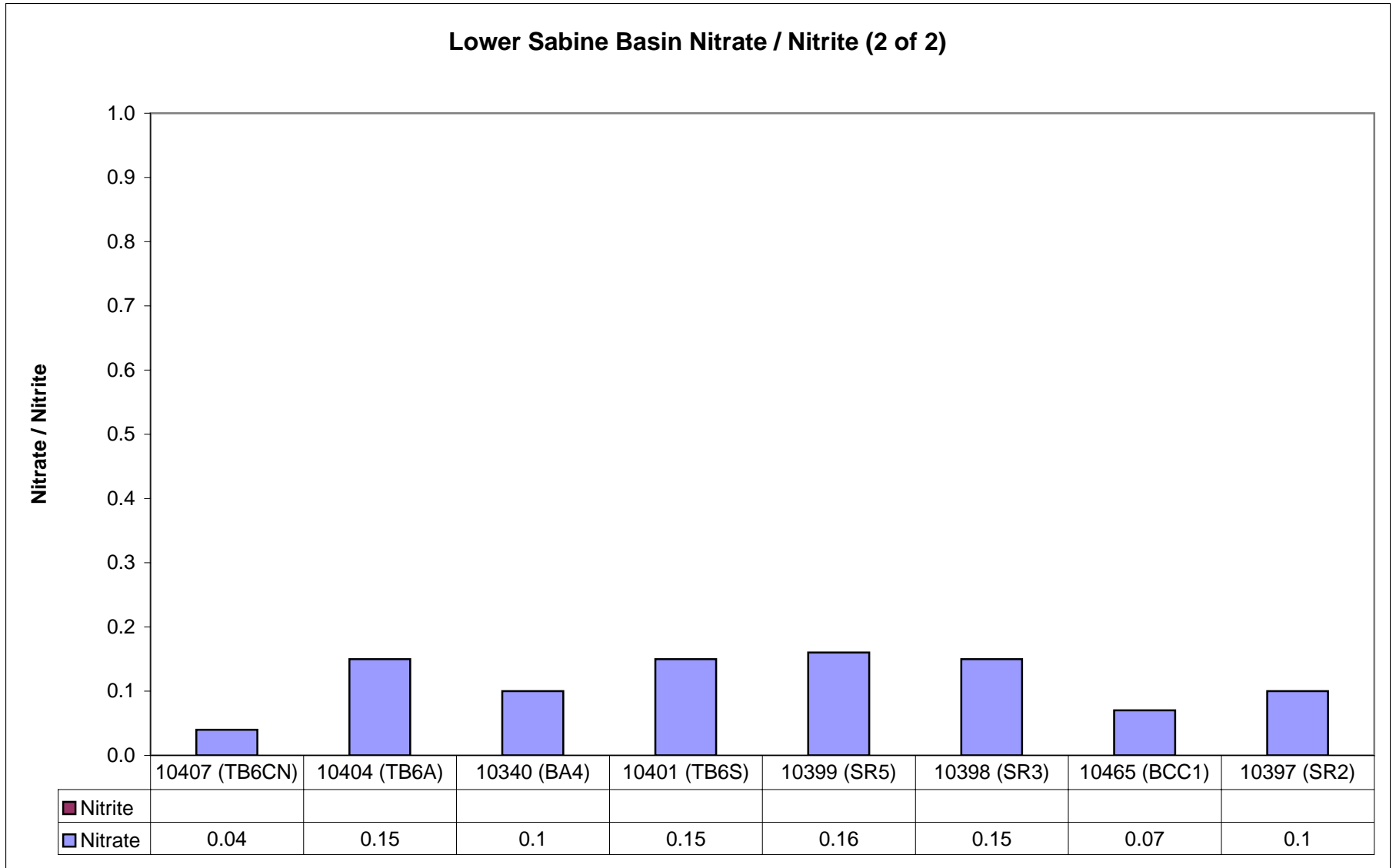
SABINE RIVER AUTHORITY OF TEXAS

December 2004



SABINE RIVER AUTHORITY OF TEXAS

December 2004



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

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

December 2004

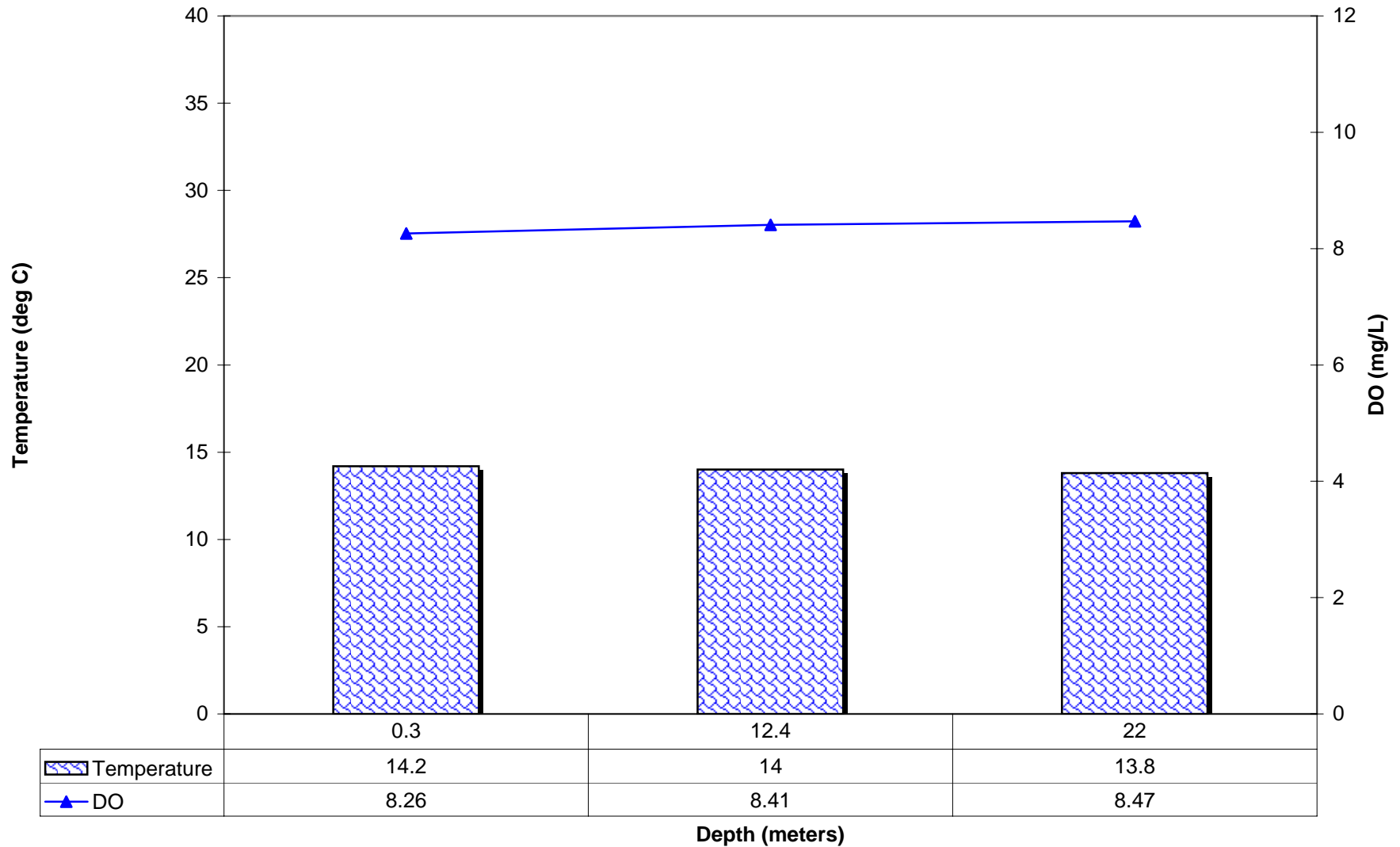
Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
12/15/04 10:50 AM	4.00	10403 (TB8)	0.3	10.6	6.99	8.69	80	229
			5.3	10.5	6.97	8.75	80	230
			11.3	10.5	6.97	8.88	81	222
12/15/04 11:23 AM	4.00	18051 (TB7A)	0.3	11	6.91	8.33	77	218
			5	10.9	6.89	8.13	75	220
			10.1	10.9	6.87	8.17	75	220
12/13/04 11:31 AM	4.00	18052 (TB6R)	0.3	13.9	6.79	8.05	78	108
			6.8	13.9	6.81	8.08	78	108
			13.9	13.8	6.85	8.15	79	107
12/13/04 1:20 PM	4.00	18053 (TB6LN)	0.3	14.5	6.58	7.84	77	90
			3.2	14.5	6.59	7.8	77	89
			6.5	14.5	6.66	7.78	76	89
12/14/04 9:53 AM	4.00	15655 (TB6J)	0.3	12.5	6.8	8.71	81	122
			2.8	12.4	6.84	8.82	83	122
			4.7	12.3	6.95	8.95	83	122
12/14/04 11:59 AM	4.00	15659 (TB6K)	0.3	13.9	6.85	7.6	73	112
			5.7	13.7	6.84	7.27	70	106
			9.2	13.7	6.92	7.9	76	105
12/14/04 10:39 AM	4.00	10402 (TB6H)	0.3	14.2	7.21	8.26	81	151
			12.4	14	7.21	8.41	82	150
			22	13.8	7.25	8.47	82	150
12/13/2004 14:03	4.00	18054 (TB6Q)	0.3	15.5	7.22	8.54	86	144
			5.8	15.4	7.21	8.22	82	145
			9.2	15.4	7.12	6.84	68	145
12/14/04 10:15 AM	4.00	10411 (TB6F)	0.3	13	6.68	7.71	73	68
			2	13	6.73	7.53	71	69
			5.3	12.8	6.84	8.34	79	69
12/14/04 9:15 AM	4.00	10407 (TB6CN)	0.3	13.2	6.52	8.06	77	77
			4	13.1	6.5	8.05	77	76
			7	13	6.6	8.11	77	75
12/13/04 3:03 PM	4.00	10404 (TB6A)*	0.3	16.1	7.2	8.49	87	139

* Depth profiles were not collected at this station on this run due to rough water.

SABINE RIVER AUTHORITY OF TEXAS

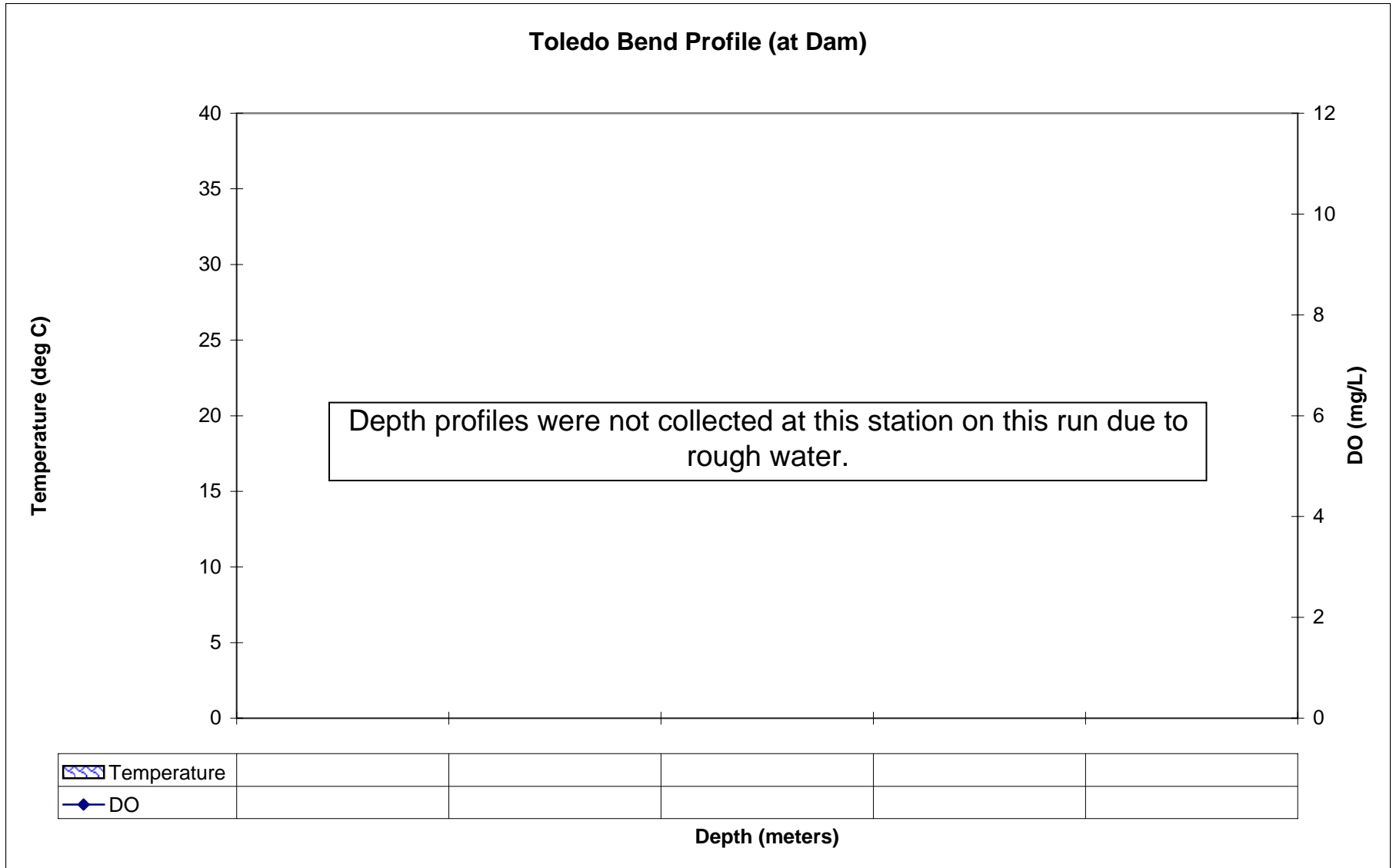
December 2004

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

December 2004



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

December 2004

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
12/1/2004	170.68	(1.35)	56	32	0.08	0.28	14,652	29,062	14,744
12/2/2004	170.72	(1.32)	52	33	0.00	0.05	14,644	29,046	14,544
12/3/2004	170.73	(1.29)	59	38	0.00	0.09	14,686	29,129	14,744
12/4/2004	170.72	(1.29)	61	34	0.00	0.07	14,644	29,045	14,644
12/5/2004	170.67	(1.32)	59	41	0.33	0.03	14,669	29,096	14,694
12/6/2004	170.67	(1.33)	70	54	0.24	0.26	14,702	29,161	14,644
12/7/2004	170.77	(1.24)	73	55	0.83	NR	14,761	29,278	14,744
12/8/2004	170.76	(1.26)	66	42	0.00	0.16	14,732	29,220	14,819
12/9/2004	170.76	(1.28)	65	45	0.02	0.07	14,732	29,220	14,644
12/10/2004	170.86	(1.21)	72	52	0.00	0.12	14,744	29,244	14,938
12/11/2004	170.81	(1.26)	65	47	0.00	0.26	14,744	29,244	14,744
12/12/2004	170.63	(1.43)	59	39	0.00	0.11	14,744	29,244	14,744
12/13/2004	170.75	(1.31)	75	40	0.00	0.10	14,794	29,343	14,744
12/14/2004	170.58	(1.39)	59	35	0.00	0.21	14,794	29,343	14,844
12/15/2004	170.29	(1.72)	47	27	0.00	0.00	14,869	29,492	14,844
12/16/2004	170.23	(1.81)	50	25	0.00	0.20	14,881	29,516	14,869
12/17/2004	170.12	(1.87)	49	37	0.51	0.00	14,913	29,579	14,894
12/18/2004	169.94	(2.06)	58	37	0.00	0.06	14,952	29,657	14,944
12/19/2004	169.87	(2.10)	63	37	0.00	0.08	15,019	29,790	14,969
12/20/2004	169.48	(2.53)	57	31	0.00	0.16	15,107	29,964	15,119
12/21/2004	169.43	(2.59)	65	30	0.00	0.13	15,094	29,938	15,119
12/22/2004	169.59	(2.64)	71	52	0.26	0.05	15,227	30,202	15,069
12/23/2004	169.62	(2.41)	60	31	1.20	0.30	15,157	30,063	15,344
12/24/2004	169.53	(2.45)	39	24	0.00	FZ	15,301	30,349	15,244
12/25/2004	169.40	(2.57)	33	24	0.00	FZ	15,322	30,391	15,354
12/26/2004	169.29	(2.70)	42	27	0.00	FZ	15,236	30,220	15,294
12/27/2004	169.19	(2.81)	54	27	0.00	NR	15,182	30,113	15,194
12/28/2004	169.03	(2.95)	61	32	0.00	0.15	15,156	30,061	15,169
12/29/2004	168.89	(3.12)	65	35	0.00	0.14	15,144	30,038	15,144
12/30/2004	168.76	(3.27)	68	48	0.00	0.04	11,656	23,119	15,069
12/31/2004	168.75	(3.30)	69	58	0.02	0.16	7,574	15,023	7,574
Avg or Tot	170.05	(1.97)	59	38	3.49	3.28	14,575	896,190	

Units	Avg Feet M.S.L.	Avg Feet	Avg Deg. F	Avg Deg. F	Tot Inches	Tot Inches	Avg cfs	Tot Ac. Ft.	cfs
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approx. 8:00 a.m.

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

NR: No Reading

FZ: Gage Frozen

Toledo Bend Sampled on 12/13,14,15/2004

Lake Elev from USGS daily mean elevation

USGS 08025350 Toledo Bd Res nr Burkeville, TX

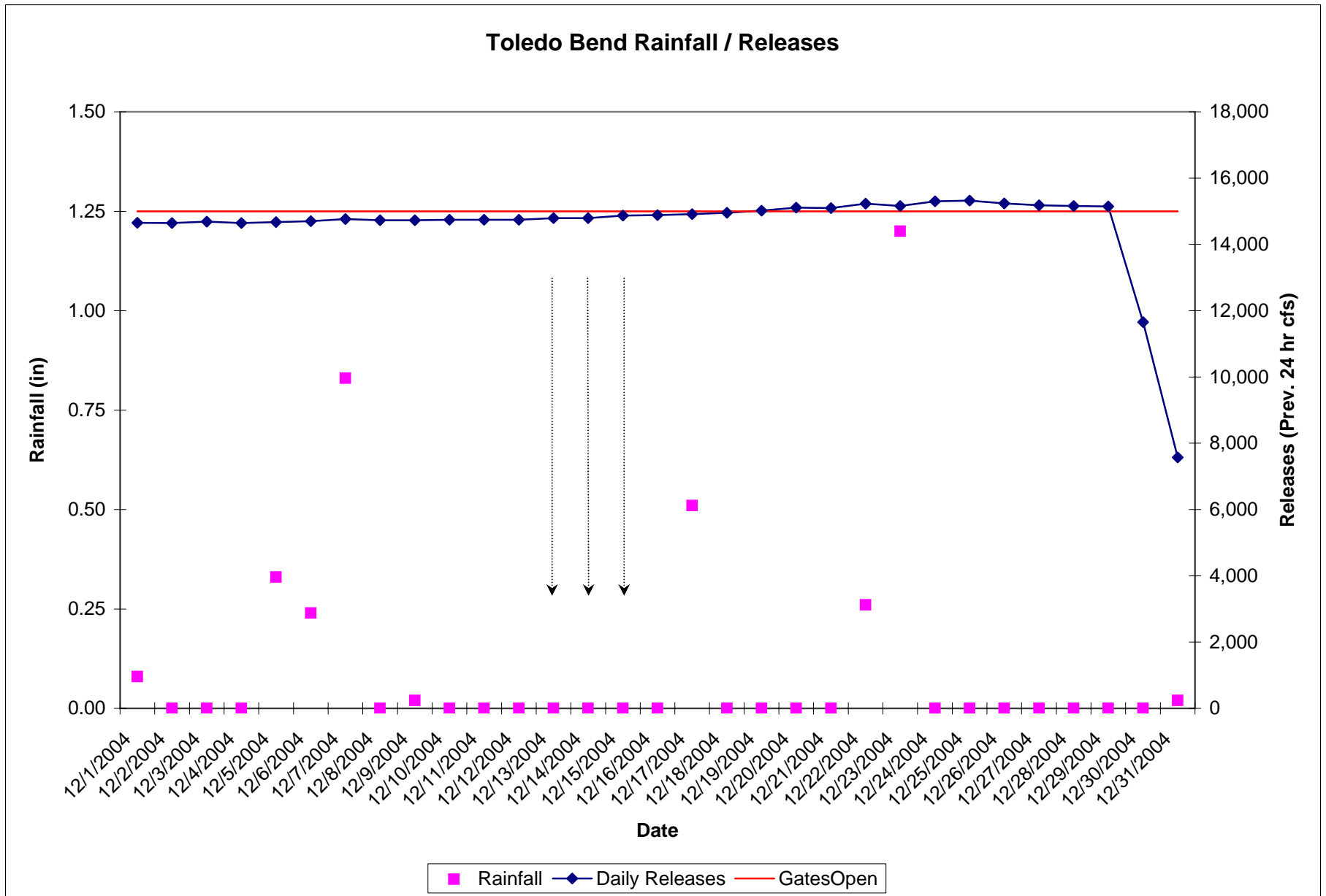
http://waterdata.usgs.gov/bx/nwis/dv/?site_no=08025350&agency_cd=USGS

Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

December 2004



Toledo Bend sampled on 12/13,14,15/2004

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

SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

December 2004

Date	Rainfall	Gauge Height	GH - FS	Flow
12/1/2004	0.00	26.37	(11.63)	17,900
12/2/2004	0.00	26.08	(11.92)	17,300
12/3/2004	0.00	25.66	(12.34)	16,600
12/4/2004	0.00	25.53	(12.47)	16,300
12/5/2004	0.00	25.52	(12.48)	16,300
12/6/2004	0.00	25.71	(12.29)	16,700
12/7/2004	0.00	26.31	(11.69)	17,800
12/8/2004	0.00	26.37	(11.63)	17,900
12/9/2004	0.00	25.96	(12.04)	17,100
12/10/2004	0.00	25.63	(12.37)	16,500
12/11/2004	0.00	25.54	(12.46)	16,400
12/12/2004	0.00	25.51	(12.49)	16,300
12/13/2004	0.00	25.47	(12.53)	16,200
12/14/2004	0.00	25.44	(12.56)	16,200
12/15/2004	0.01	25.46	(12.54)	16,200
12/16/2004	0.00	25.48	(12.52)	16,300
12/17/2004	0.00	25.50	(12.50)	16,300
12/18/2004	0.00	25.52	(12.48)	16,300
12/19/2004	0.00	25.50	(12.50)	16,300
12/20/2004	0.00	25.53	(12.47)	16,300
12/21/2004	OUT	25.56	(12.44)	16,400
12/22/2004	OUT	25.72	(12.28)	16,700
12/23/2004	OUT	26.28	(11.72)	17,700
12/24/2004	OUT	26.12	(11.88)	17,400
12/25/2004	OUT	25.79	(12.21)	16,800
12/26/2004	OUT	25.65	(12.35)	16,600
12/27/2004	OUT	25.61	(12.39)	16,500
12/28/2004	OUT	25.60	(12.40)	16,500
12/29/2004	OUT	25.61	(12.39)	16,500
12/30/2004	OUT	24.82	(13.18)	15,100
12/31/2004	OUT	21.06	(16.94)	8,760
Avg or Tot	0.01	25.55	(12.45)	16,392

	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 38 feet

OUT: Gage Out

Lower Sabine Basin Sampled on 12/15/2004

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively

USGS 08026000 Sabine Rv nr Burkeville, TX

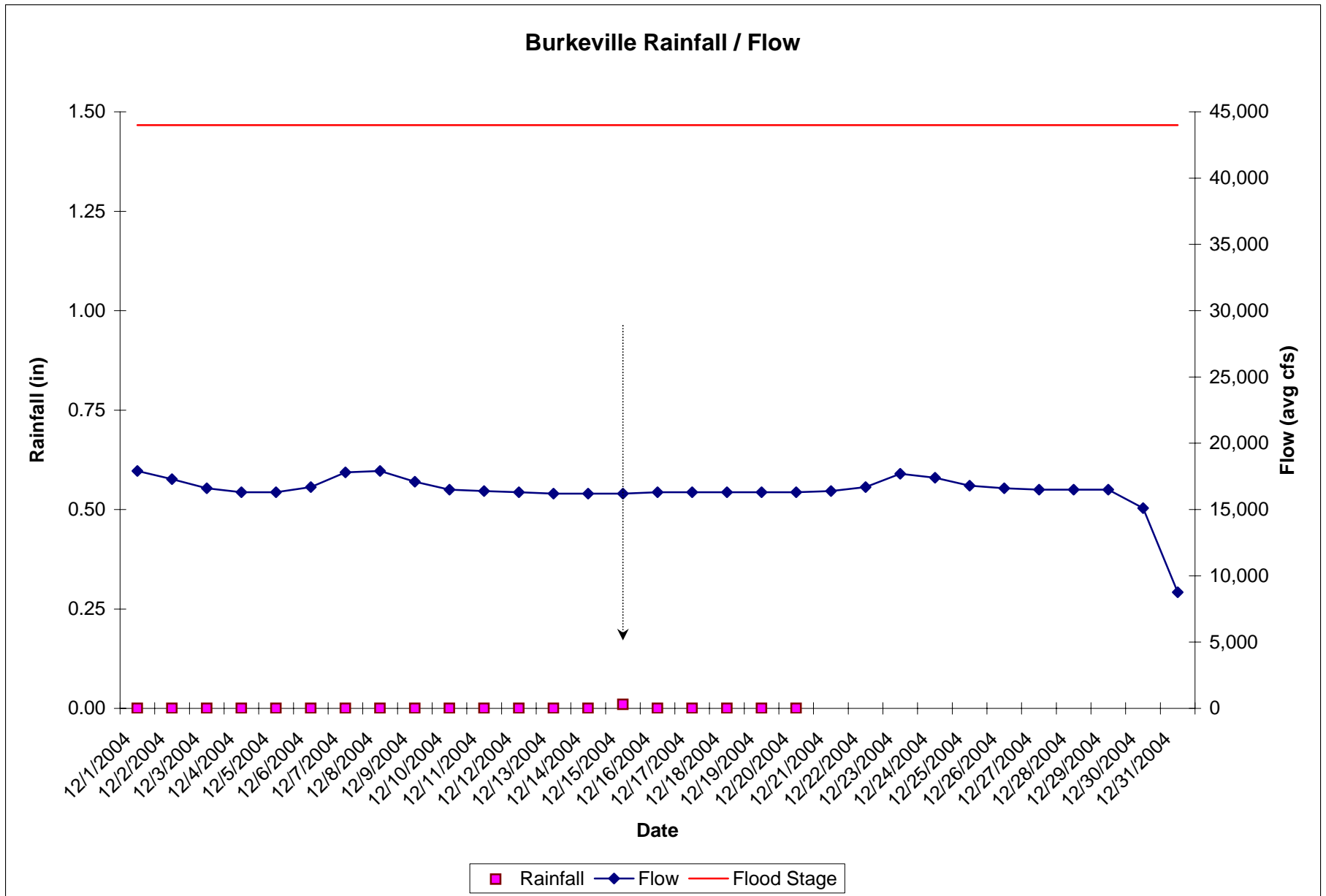
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08026000&agency_cd=USGS

Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

December 2004



Flood stage flow of 44,000 cfs calculated from flood stage gage height, 38 ft msl. (latest available rating curve; not USGS Web site)

SABINE RIVER AUTHORITY OF TEXAS

Bon Wier Weather and River Data

December 2004

Date	Gauge Height	GH - FS	Flow Avg	308 Rainfall
12/1/2004	27.02	(2.98)	19,200	OUT
12/2/2004	27.00	(3.00)	19,100	OUT
12/3/2004	26.62	(3.38)	18,300	OUT
12/4/2004	26.27	(3.73)	17,600	OUT
12/5/2004	26.10	(3.90)	17,200	OUT
12/6/2004	26.23	(3.77)	17,500	OUT
12/7/2004	27.61	(2.39)	20,700	OUT
12/8/2004	28.57	(1.43)	23,200	OUT
12/9/2004	28.22	(1.78)	22,200	OUT
12/10/2004	27.62	(2.38)	20,600	OUT
12/11/2004	26.76	(3.24)	18,600	OUT
12/12/2004	26.32	(3.68)	17,700	OUT
12/13/2004	26.09	(3.91)	17,200	OUT
12/14/2004	25.91	(4.09)	16,800	OUT
12/15/2004	25.82	(4.18)	16,600	OUT
12/16/2004	25.79	(4.21)	16,500	OUT
12/17/2004	25.82	(4.18)	16,600	OUT
12/18/2004	25.86	(4.14)	16,700	OUT
12/19/2004	25.79	(4.21)	16,600	OUT
12/20/2004	25.75	(4.25)	16,500	OUT
12/21/2004	25.77	(4.23)	16,500	OUT
12/22/2004	25.97	(4.03)	16,900	OUT
12/23/2004	27.38	(2.62)	20,100	OUT
12/24/2004	27.65	(2.35)	20,700	OUT
12/25/2004	27.05	(2.95)	19,300	OUT
12/26/2004	26.50	(3.50)	18,000	OUT
12/27/2004	26.22	(3.78)	17,400	OUT
12/28/2004	26.08	(3.92)	17,100	OUT
12/29/2004	25.99	(4.01)	17,000	OUT
12/30/2004	25.94	(4.06)	16,900	OUT
12/31/2004	24.25	(5.75)	13,700	OUT
Avg or Tot	26.45	(3.55)	18,032	0.00

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

OUT: Gage Out

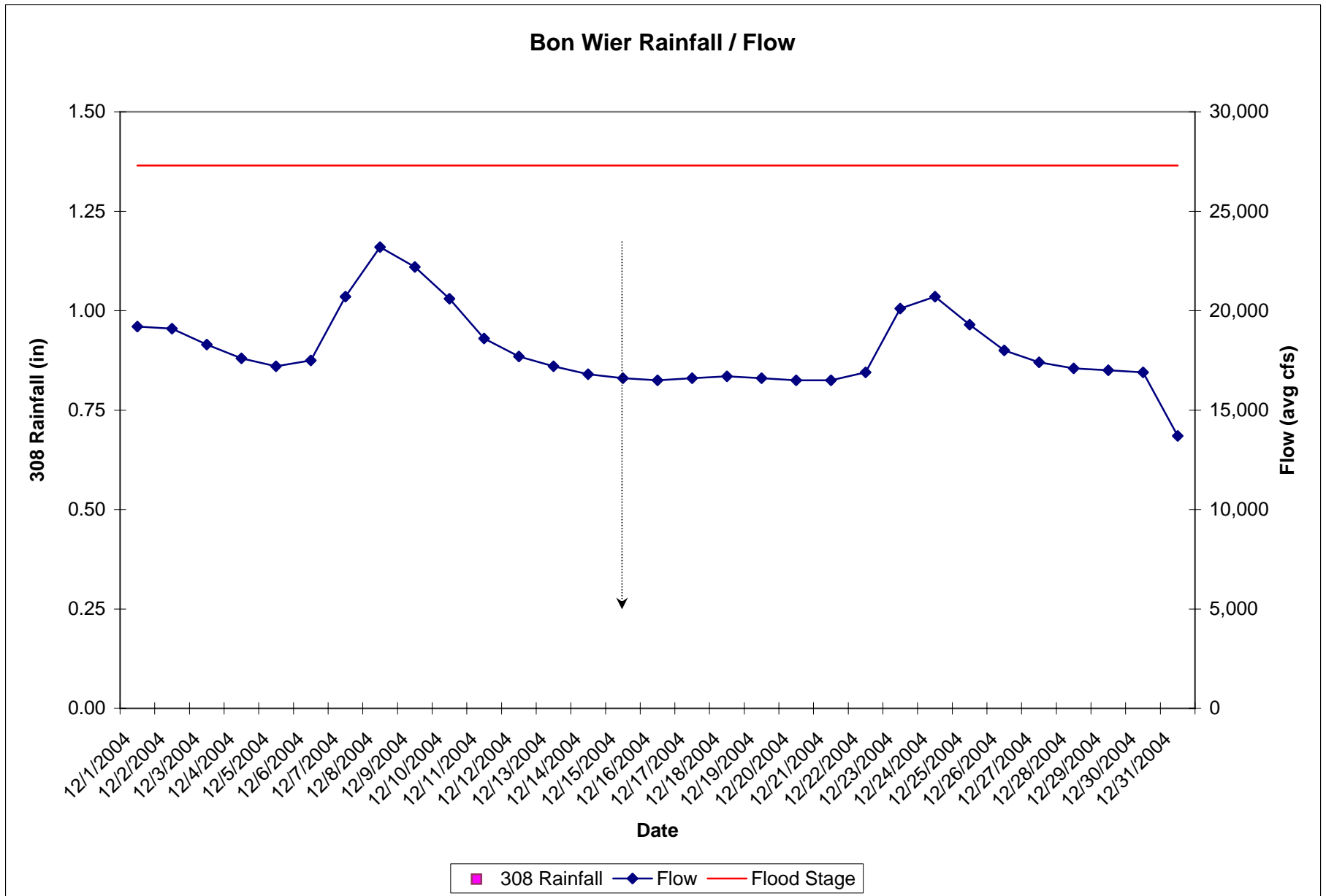
Lower Sabine Basin Sampled on 12/15/2004

Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively
 USGS 08028500 Sabine Rv nr Bon Wier, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08028500&agency_cd=USGS
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

December 2004



Lower Sabine Basin sampled on 12/15/2004

Flood stage flow of 27,300 cfs calculated from flood stage gage height, 30 ft msl. (USGS Web site)

SABINE RIVER AUTHORITY OF TEXAS

Ruliff Weather and River Data

December 2004

Date	Gauge Height	GH - FS	Flow cfs	Flow acft	309 Rainfall
12/1/2004	24.58	0.58	25,400	50,380	OUT
12/2/2004	24.34	0.34	22,200	44,033	OUT
12/3/2004	24.19	0.19	20,200	40,066	OUT
12/4/2004	24.11	0.11	19,200	38,083	OUT
12/5/2004	24.08	0.08	18,700	37,091	OUT
12/6/2004	24.06	0.06	18,500	36,694	OUT
12/7/2004	24.11	0.11	19,100	37,884	OUT
12/8/2004	24.14	0.14	19,400	38,479	OUT
12/9/2004	24.28	0.28	21,400	42,446	OUT
12/10/2004	24.44	0.44	23,600	46,810	OUT
12/11/2004	24.51	0.51	24,500	48,595	OUT
12/12/2004	24.43	0.43	23,300	46,215	OUT
12/13/2004	24.28	0.28	21,300	42,248	OUT
12/14/2004	24.16	0.16	19,700	39,074	OUT
12/15/2004	24.06	0.06	18,500	36,694	OUT
12/16/2004	24.01	0.01	17,900	35,504	OUT
12/17/2004	23.97	(0.03)	17,500	34,711	OUT
12/18/2004	23.94	(0.06)	17,200	34,116	OUT
12/19/2004	23.91	(0.09)	17,000	33,719	OUT
12/20/2004	23.91	(0.09)	16,900	33,521	OUT
12/21/2004	23.91	(0.09)	16,900	33,521	OUT
12/22/2004	23.95	(0.05)	17,300	34,314	OUT
12/23/2004	24.01	0.01	17,900	35,504	OUT
12/24/2004	24.02	0.02	18,000	35,702	OUT
12/25/2004	24.04	0.04	18,300	36,298	OUT
12/26/2004	24.12	0.12	19,200	38,083	OUT
12/27/2004	24.16	0.16	19,800	39,273	OUT
12/28/2004	24.13	0.13	19,300	38,281	OUT
12/29/2004	24.07	0.07	18,600	36,893	OUT
12/30/2004	24.01	0.01	17,900	35,504	OUT
12/31/2004	23.97	(0.03)	17,500	34,711	OUT
Avg or Tot	24.13	0.13	19,426	1,194,446	0.00

Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
-------	-------------	-------------	------------	--------------	---------------

FS: Flood Stage 24 feet with 10 foot datum

OUT: Gage Out

Lower Sabine Basin Sampled on 12/15/2004

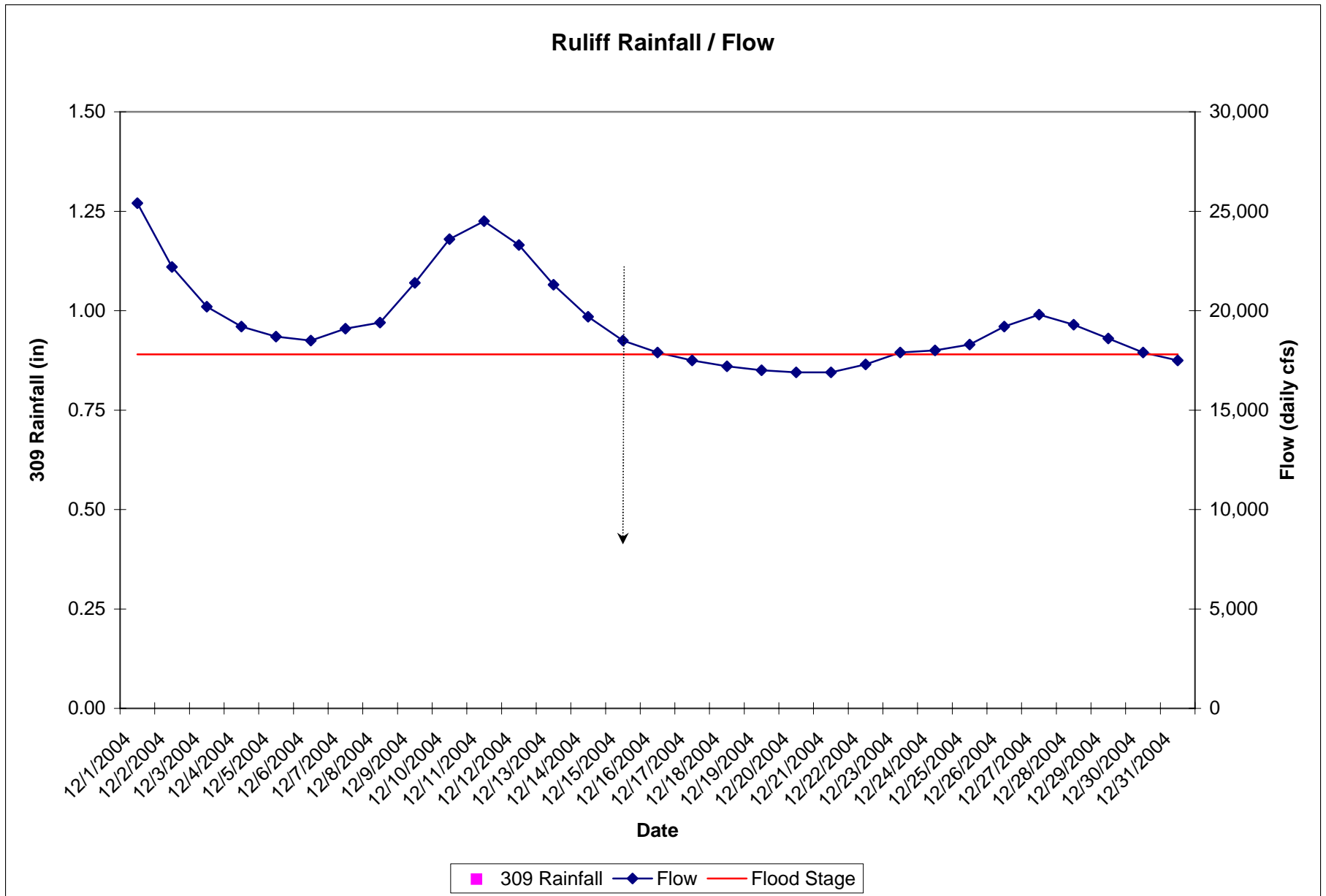
Gauge Height and Flow from USGS daily mean Gage height and Discharge, respectively
 USGS 08030500 Sabine Rv nr Ruliff, TX
http://waterdata.usgs.gov/tx/nwis/dv/?site_no=08030500&agency_cd=USGS
 Acquired 4/14/2005; provisional and subject to revision by USGS.

Other values measured by SRA-TX

Flow acft = Flow cfs * 1.98347

SABINE RIVER AUTHORITY OF TEXAS

December 2004



Lower Sabine Basin sampled on 12/15/2004

Flood stage flow of 17,800 cfs calculated from flood stage gage height, 24 ft msl. (USGS Web site)

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FY 2005 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

December 2004

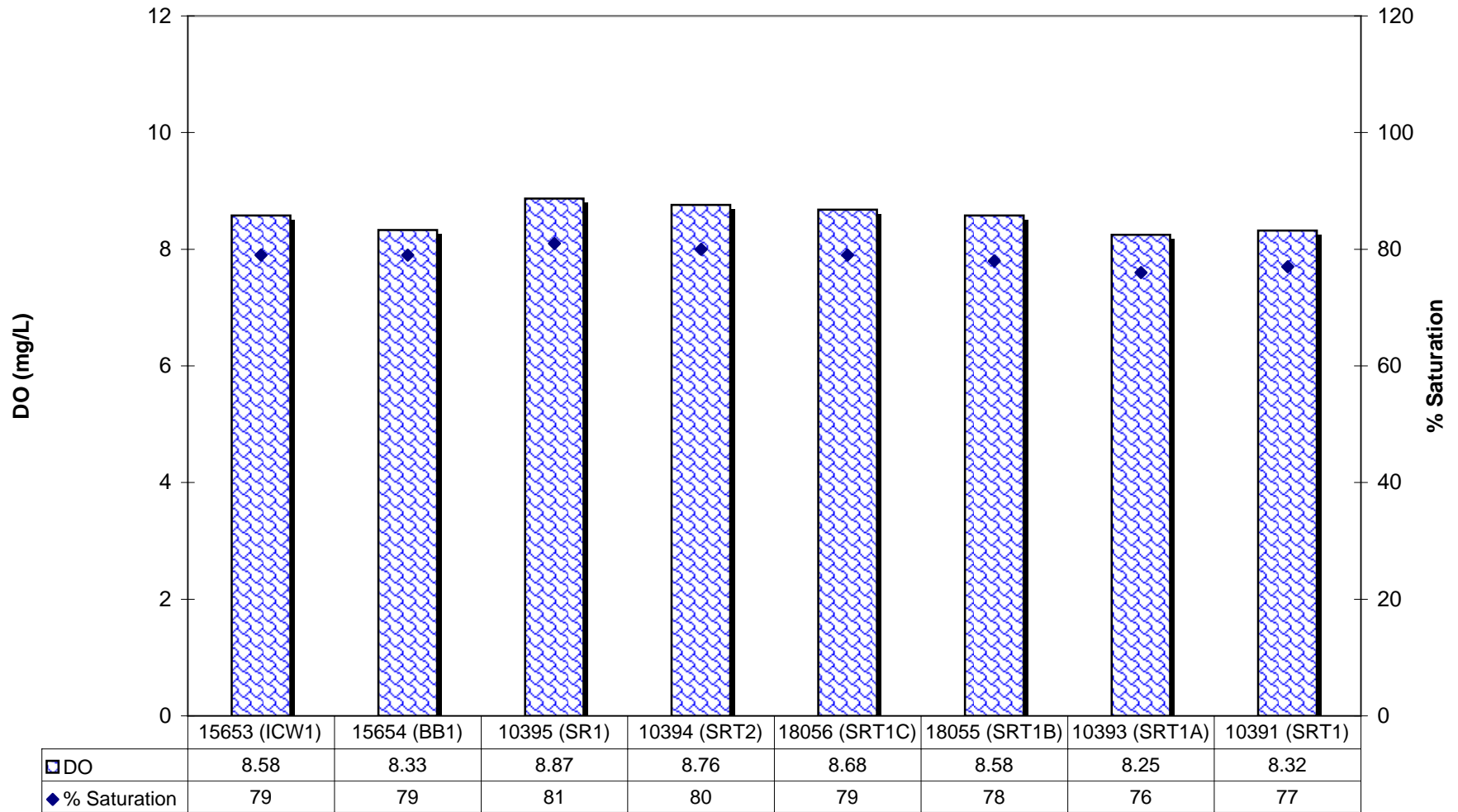
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	<i>E. coli</i> mpn/100ml 31699	<i>Enterococcus</i> mpn/100ml 31701	Chlorophyll a µg/L 32211	Nitrite mg/L 00615	Nitrate mg/L 00620	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900
12/16/04 10:15 AM	1.05	15653 (ICW1)	11.3	6.76	8.58	79	122	< 1	0.53	12.4	27	13	*	< 0.02	0.07	< 0.04	9	*	*
12/16/04 10:50 AM	1.01	15654 (BB1)	12.4	6.85	8.33	79	2182	1	0.44	13.8	23	31	*	< 0.02	0.05	< 0.04	8	*	*
12/16/04 9:23 AM	1.00	10395 (SR1)	11.4	6.84	8.87	81	125	*	0.35	14.8	56	*	*	< 0.02	0.07	< 0.04	8	*	*
12/16/04 9:45 AM	1.00	10394 (SRT2)	11	6.79	8.76	80	118	< 1	0.55	12.7	37	31	*	< 0.02	0.07	< 0.04	8	*	*
12/16/04 10:00 AM	1.00	18056 (SRT1C)	11.1	6.82	8.68	79	118	< 1	0.56	11.9	40	22	*	< 0.02	0.06	< 0.04	8	*	*
12/16/04 10:30 AM	1.00	18055 (SRT1B)	11.5	6.76	8.58	78	124	< 1	0.52	13.1	41	17	*	< 0.02	0.06	< 0.04	8	*	*
12/16/04 10:35 AM	1.00	10393 (SRT1A)	11.6	7.32	8.25	76	199	< 1	0.48	13.4	52	16	*	< 0.02	0.05	< 0.04	8	*	*
12/16/04 11:05 AM	1.00	10391 (SRT1)	11.8	7.45	8.32	77	450	< 1	0.55	12.7	31	31	*	< 0.02	0.09	< 0.04	8	*	*

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

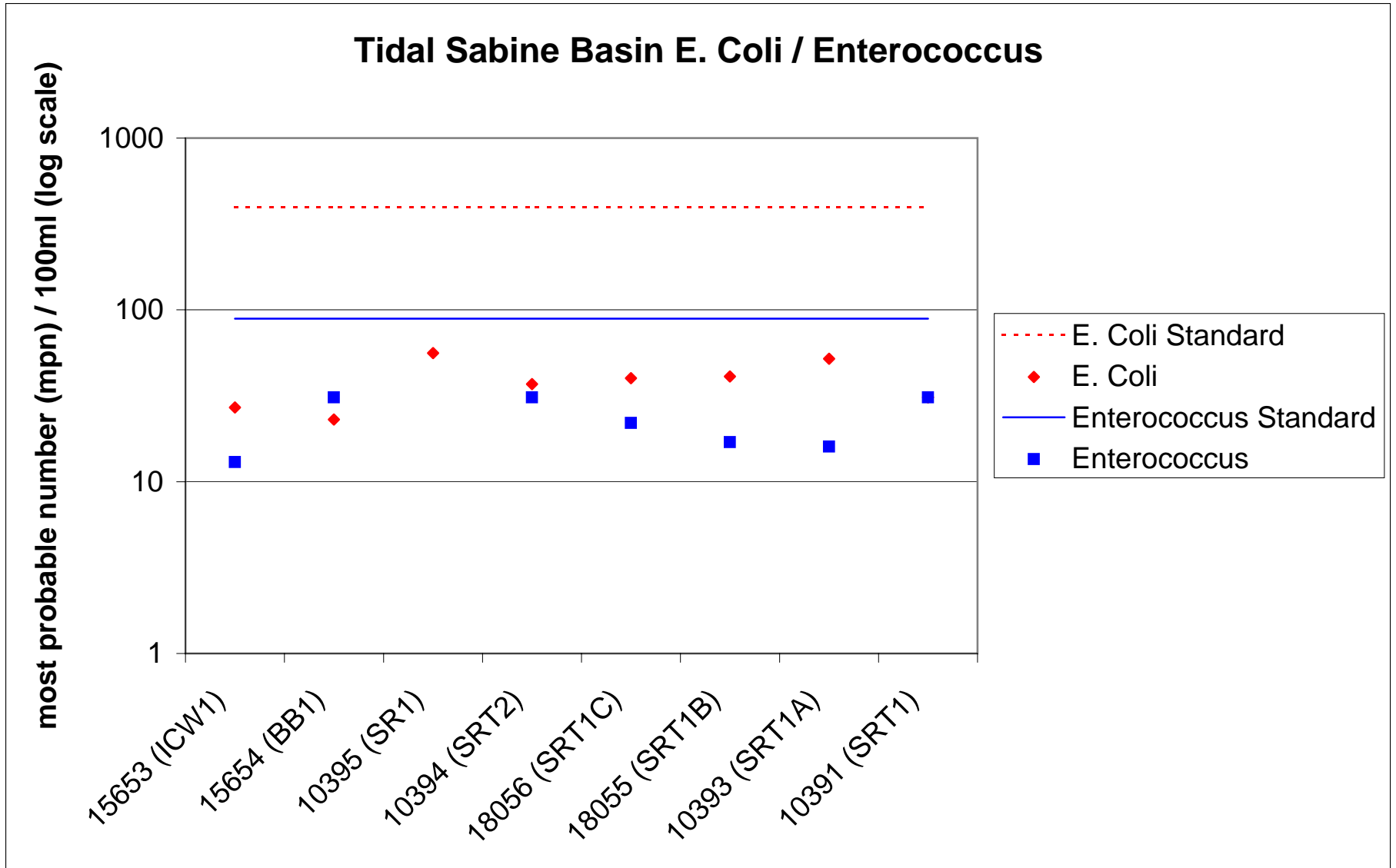
December 2004

Tidal Sabine Basin DO / % Saturation



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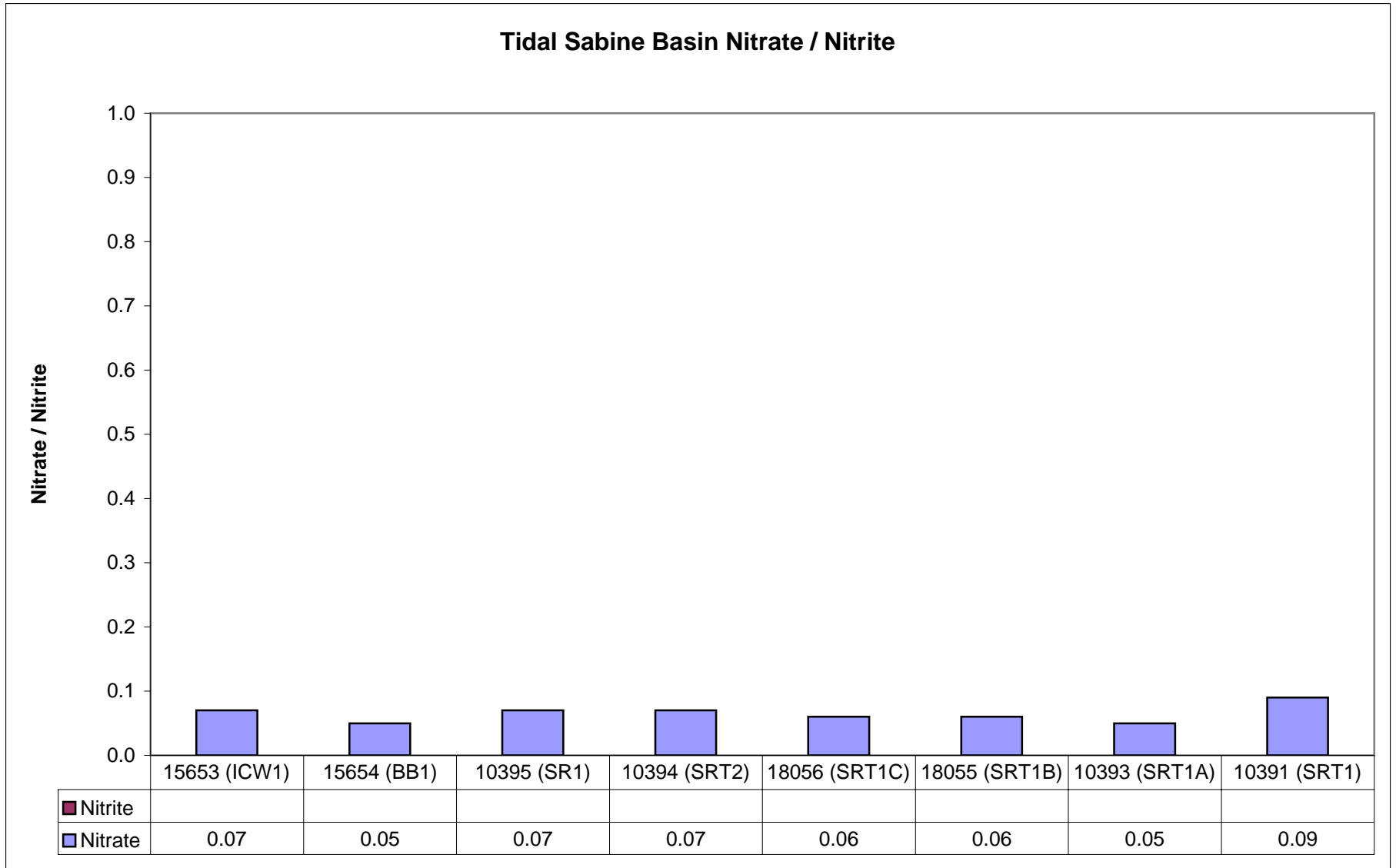
December 2004



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

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December 2004



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

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

December 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
12/16/04 10:15 AM	1.05	15653 (ICW1)	0.3	11.3	6.76	8.58	79	122	< 1
			3	11.3	6.8	8.64	79	122	< 1
			6.1	11.3	6.86	8.7	79	122	< 1
12/16/04 10:50 AM	1.01	15654 (BB1)	0.3	12.4	6.85	8.33	79	2182	1
			5.1	12.3	6.9	8.42	79	2200	1
12/16/04 9:45 AM	1.00	10394 (SRT2)	0.3	11	6.79	8.76	80	118	< 1
			7	11	6.84	8.75	79	118	< 1
12/16/04 10:00 AM	1.00	18056 (SRT1C)	0.3	11.1	6.82	8.68	79	118	< 1
			6	11.1	6.87	8.66	79	119	< 1
			12.1	11.1	7.16	8.63	79	120	< 1
12/16/04 10:30 AM	1.00	18055 (SRT1B)	0.3	11.5	6.76	8.58	78	124	< 1
			4	11.3	6.8	8.56	79	122	< 1
			8.6	11.3	6.93	8.71	79	123	< 1
12/16/04 10:35 AM	1.00	10393 (SRT1A)	0.3	11.6	7.32	8.25	76	199	< 1
			6	12.9	7.11	7.8	75	4552	3
			9.4	14.5	7.08	7.56	79	17510	10
12/16/04 11:05 AM	1.00	10391 (SRT1)	0.3	11.8	7.45	8.32	77	450	< 1
			5	13.5	7.28	7.8	79	11320	7
			10.8	14.5	7.4	7.47	80	21180	13

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

December 2004

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
12/1/2004	OUT	OUT	OUT	61	35	35	0.06
12/2/2004	OUT	OUT	OUT	54	35	48	0.00
12/3/2004	OUT	OUT	OUT	64	40	41	0.00
12/4/2004	OUT	OUT	OUT	65	50	51	0.00
12/5/2004	OUT	OUT	OUT	63	51	60	0.00
12/6/2004	OUT	OUT	OUT	72	60	68	0.50
12/7/2004	OUT	OUT	OUT	71	56	56	0.88
12/8/2004	OUT	OUT	OUT	71	48	49	0.06
12/9/2004	OUT	OUT	OUT	71	49	62	0.06
12/10/2004	OUT	OUT	OUT	71	49	53	0.00
12/11/2004	OUT	OUT	OUT	67	42	42	0.00
12/12/2004	OUT	OUT	OUT	62	42	49	0.00
12/13/2004	OUT	OUT	OUT	77	77	57	0.00
12/14/2004	OUT	OUT	OUT	63	37	38	0.00
12/15/2004	OUT	OUT	OUT	50	31	31	0.00
12/16/2004	OUT	OUT	OUT	45	41	45	0.00
12/17/2004	OUT	OUT	OUT	50	41	45	0.50
12/18/2004	OUT	OUT	OUT	60	37	37	0.00
12/19/2004	OUT	OUT	OUT	64	36	37	0.00
12/20/2004	OUT	OUT	OUT	61	37	38	0.00
12/21/2004	OUT	OUT	OUT	66	38	57	0.00
12/22/2004	OUT	OUT	OUT	70	56	59	0.10
12/23/2004	OUT	OUT	OUT	67	36	36	0.35
12/24/2004	OUT	OUT	OUT	36	29	29	0.00
12/25/2004	OUT	OUT	OUT	35	29	33	0.00
12/26/2004	OUT	OUT	OUT	45	25	26	0.00
12/27/2004	OUT	OUT	OUT	58	26	32	0.00
12/28/2004	OUT	OUT	OUT	60	32	36	0.00
12/29/2004	OUT	OUT	OUT	65	36	51	0.00
12/30/2004	OUT	OUT	OUT	69	50	58	0.00
12/31/2004	OUT	OUT	OUT	72	61	48	0.00
Avg or Tot	OUT	OUT	OUT	61	42	45	2.51

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

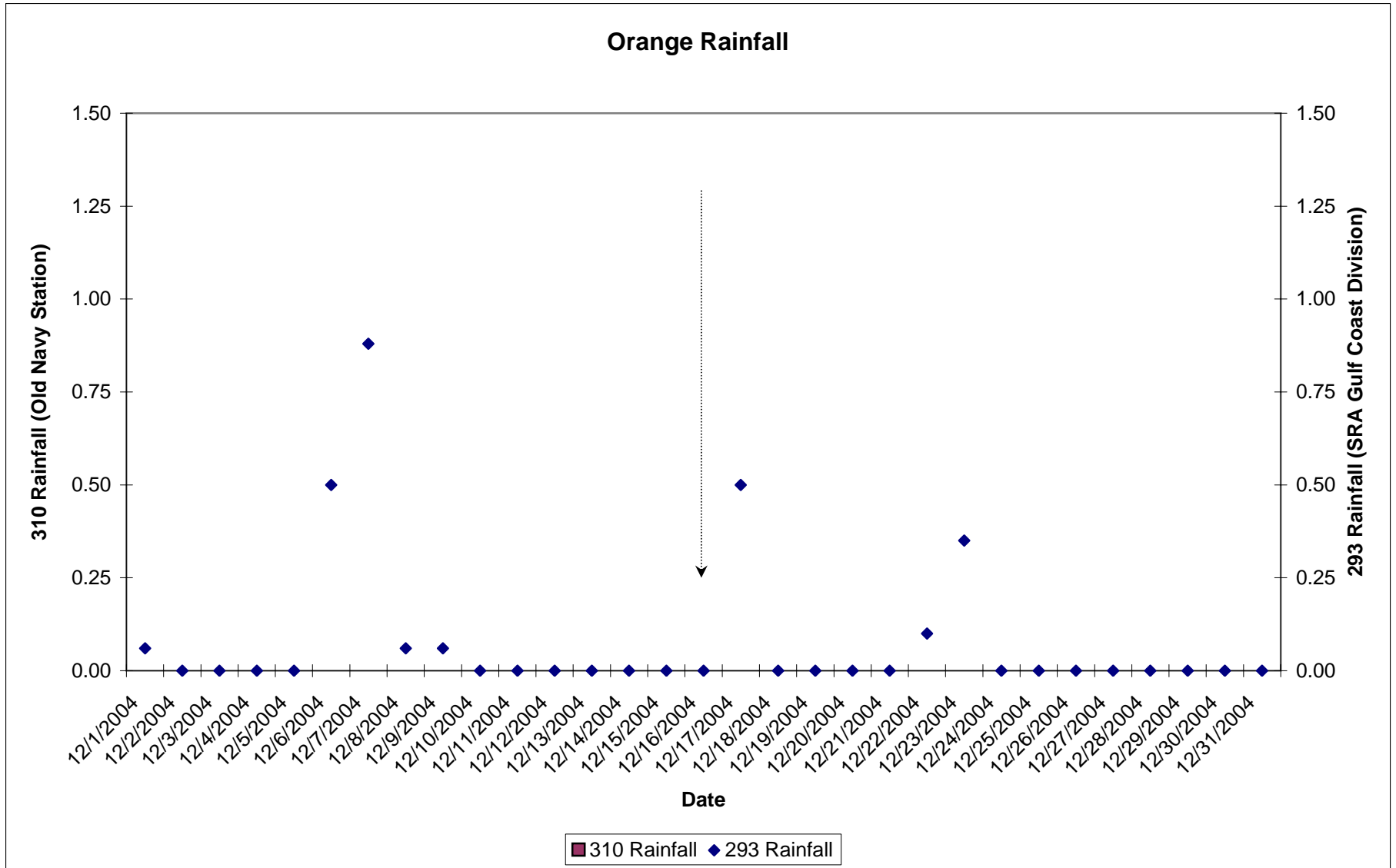
OUT: Gage Out

Tidal Sabine Basin Sampled on 12/16/2004

Values measured by SRA-TX

SABINE RIVER AUTHORITY OF TEXAS

December 2004



Tidal Sabine Basin Sampled on 12/16/2004