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**SABINE RIVER AUTHORITY OF TEXAS**

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

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This is the Sabine River Authority Water Quality Summary for December 2000. Water quality sampling was performed December 12<sup>th</sup> and December 13<sup>th</sup> in the Upper Basin. Due to inclement weather, the Lower Basin sample run was done in two parts; December 13<sup>th</sup> and 14<sup>th</sup>, and December 19<sup>th</sup> and 20<sup>th</sup>. The Upper Basin received 1.97-2.84 inches of rainfall during the 28 days since the previous sample run, as recorded at Lake Tawakoni and Lake Fork. Toledo Bend and Orange received 6.67 and 3.84 inches respectively during the 28 days preceding the sample run. Freezing rain the night before the Upper Basin sample run caused icy conditions and long-term power outages in northeast Texas. Daytime-high air temperatures in the Upper Basin were in the 50's and 60's recently and in the 30's during the sample run. Lows in the Upper Basin were in the 30's prior to a warming trend before the cold snap that put lows in the upper teens during nights of the sample run. Lower Basin highs ranged from the 40's to 60's. Nighttime lows in the Lower Basin were in the 20's and 30's. The reservoirs were completely mixed in keeping with typical wintertime conditions.

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

For the December sample run, most of the parameter's values seen at the Upper Basin sites were consistent with water of high quality. The three Lake Fork Reservoir sites had pH values slightly below stream standards minimums and LF2 near the dam had slightly elevated nitrate/nitrite levels. Water clarity was very good at these three sites as well as most of the river sites. Fecal coliform counts at the reservoir sites were compliant with stream standards. Some high fecal coliform levels were seen at several Upper Basin river sites on day two of the sample run. High counts during this sample run were a little unusual because there were no recent rainfall runoff events. An ice storm and widespread electrical outages during the sample run may have caused some wastewater treatment plant upsets. Two river sites, SR22 and SR21, had significantly elevated ammonia levels. Stream standards do not exist for nutrients such as ammonia and nitrate/nitrite. Statewide screening values and historical comparison are used to evaluate these parameters.

## SABINE RIVER AUTHORITY OF TEXAS: WATER QUALITY MONITORING REPORT

### **LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF**

December WQM sampling results were indicative of water of high quality at most sites. Toledo Bend Reservoir levels were still below pool level at the time samples were taken. Deep-water stations sampled on the reservoir were well mixed and did not exhibit thermal stratification. Sites TB6M and TB6L had pH levels that were slightly below stream standards. Stations TNH01, TB8, TB6M, TB6L and BA4 had fecal coliform counts that were above stream standards. Station TB6N had sulfate levels higher than stream standards set for Toledo Bend Reservoir. TB6N is sampled from a bayou located downstream from a municipal wastewater treatment plant. Station BA4 had higher conductivity readings than corresponding river sites and levels of sulfate and chloride that exceeded standards set for Sabine River. Station BA4 is sampled from a bayou that receives discharge from a paper mill.

### **TIDAL SECTION OF THE SABINE BASIN BELOW MORGAN BLUFF**

Stations sampled in the tidal portion of the Sabine Basin had values that were consistent with water of high quality at most sites. Stations AB7 and CB4 had oxygen readings that were below stream standards. Fecal coliform standards were exceeded at four stations: AB7, AB2, CB4, and CB1. Salinity was detected at four tidal stations: AB2, CB1, SRT1, and ICW1. The greatest salinity reading of 11 ppt was observed at the deepest depth at Station SRT1. Deep water stations sampled exhibited thermal stratification with a definite salt-water wedge at river tidal stations SRT1 and SRT2.

This Report and additional data for these monitoring stations are available on our World Wide Web site ([www.sra.dst.tx.us](http://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

## Water Quality Monitoring Program

December 2000

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2000 SRA WQMP Stations, by Reach

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# *Current WQMP Stations*

## *Upper Sabine Basin*

<i>SW</i>	<i>Segment</i>	<i>Station</i>	<i>Location</i>
7.00	0507	10440 (LT23C)	LAKE TAWAKONI NR 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 FM515
6.12	0512	10458 (LF2)	LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL
6.10	0515	10469 (LF20)	LAKE FORK CREEK AT US 80
6.04	0506	14500 (HRS16)	HARRIS CREEK AT FM 16
6.02	0514	10467 (BS18)	BIG SANDY CREEK AT US 80
6.00	0506	17065 (SR22)	SABINE RIVER AT FM 17 (SR22)
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	0505	10428 (SR17)	SABINE RIVER AT US 271
5.00	0505	10427 (SR16)	SABINE RIVER AT SH 42
5.00	0505	10426 (SR15)	SABINE RIVER AT US 259
5.00	0505	10423 (SR14)	SABINE RIVER AT SH 149
5.00	0505	13628 (SR11)	SABINE RIVER AT US 59
5.00	0505	10415 (SR10)	SABINE RIVER AT FM 2517

**SABINE RIVER AUTHORITY OF TEXAS**  
 Upper Sabine Basin Report  
 December 2000

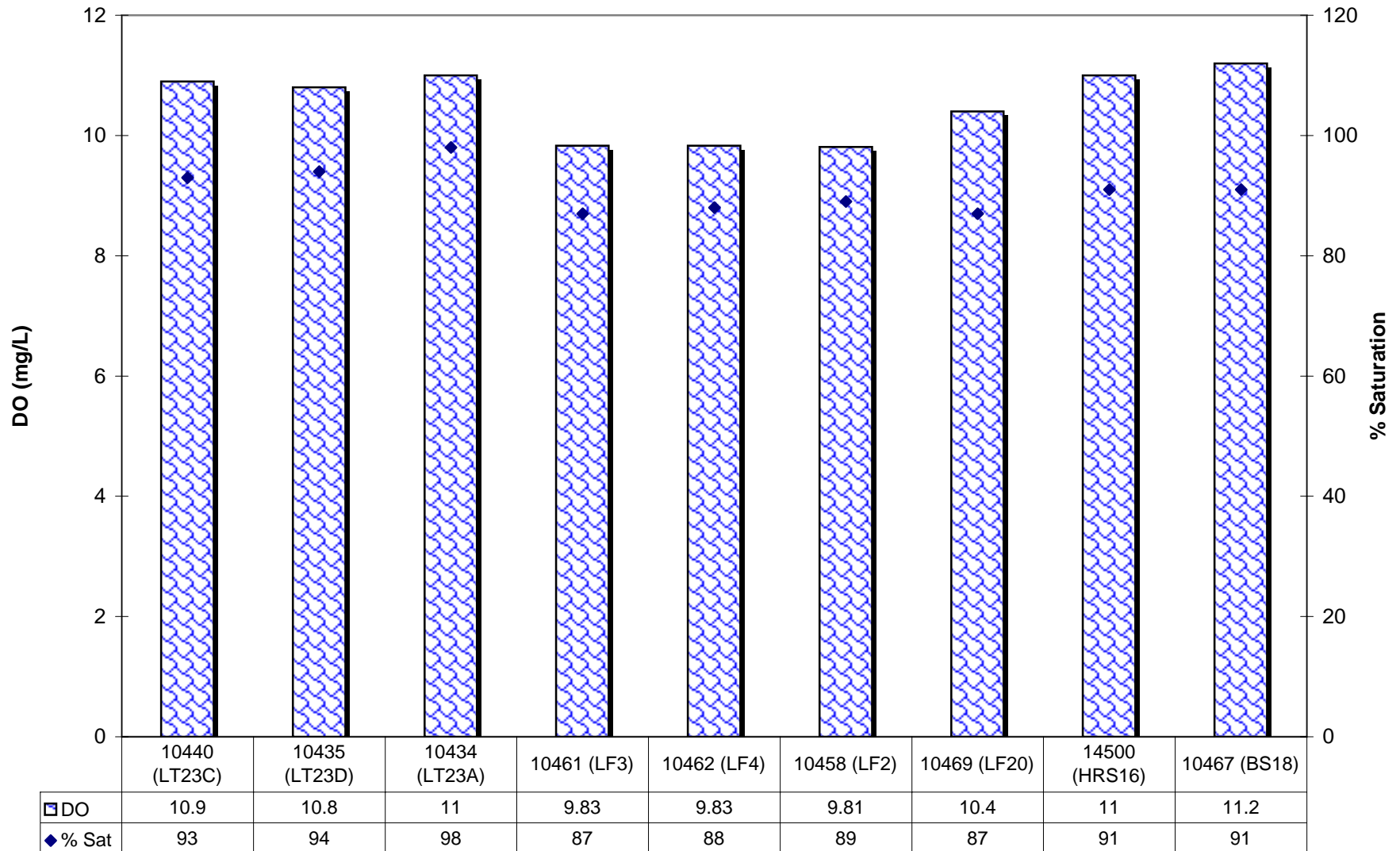
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
12/12/00 10:49 AM	7.00	10440 (LT23C)	8.38	7.33	10.9	93	180	*	0.56	20.8	8	*	*	< 0.05	0.22	< 0.05	5	*	*	4	8.2
12/12/00 10:08 AM	7.00	10435 (LT23D)	9.17	7.35	10.8	94	183	*	0.59	25.2	3	*	*	< 0.05	0.21	0.07	5	*	*	4.1	8.5
12/12/00 9:17 AM	7.00	10434 (LT23A)	10.1	7.2	11	98	193	*	0.9	7.18	2	*	*	< 0.05	0.32	< 0.05	4	*	*	4.6	7.9
12/12/00 8:26 AM	6.12	10461 (LF3)	10.1	6.36	9.83	87	150	*	1.59	3.83	2	*	*	< 0.05	0.26	< 0.05	5	*	*	12.5	15.1
12/12/00 8:41 AM	6.12	10462 (LF4)	10.4	6.38	9.83	88	142	*	1.57	4.58	2	*	*	< 0.05	0.31	< 0.05	5	*	*	11.2	14.4
12/12/00 8:01 AM	6.12	10458 (LF2)	11.2	6.31	9.81	89	152	*	1.61	2.97	7	*	*	< 0.05	0.37	< 0.05	5	*	*	12	13.4
12/12/00 12:32 PM	6.10	10469 (LF20)	7.43	7.03	10.4	87	282	*	0.6	16.3	88	*	*	< 0.05	0.17	< 0.05	5	*	*	37.1	47.4
12/12/00 1:13 PM	6.04	14500 (HRS16)	7.06	6.85	11	91	204	*	0.98	8.87	57	*	*	< 0.05	0.23	< 0.05	4	*	*	18.4	40.2
12/13/00 8:06 AM	6.02	10467 (BS18)	6.25	6.82	11.2	91	157	*	0.91	10.4	240	*	*	< 0.05	0.2	< 0.05	5	*	*	19.5	23.8
12/12/00 11:39 AM	6.00	17065 (SR22)	8.43	7.1	10.2	87	226	*	0.48	31.9	73	*	*	0.58	0.3	< 0.05	5	*	*	9.3	15.9
12/12/00 12:10 PM	6.00	10430 (SR21)	8.22	7.1	10.2	87	320	*	0.52	23.5	50	*	*	0.78	0.27	< 0.05	5	*	*	35.5	28.1
12/12/00 12:55 PM	6.00	10429 (SR19)	8.3	7.04	10.7	91	249	*	0.57	24.3	37	*	*	< 0.05	0.27	< 0.05	6	*	*	23.2	25.8
12/13/00 8:28 AM	5.00	10428 (SR17)	6.89	7.05	11.3	93	192	*	0.59	42.3	> 1200	*	*	< 0.05	0.28	< 0.05	6	*	*	20.2	19.3
12/13/00 8:51 AM	5.00	10427 (SR16)	6.83	7.06	11.3	93	216	*	0.54	70.1	900	*	*	< 0.05	0.24	< 0.05	6	*	*	25	19.9
12/13/00 9:08 AM	5.00	10426 (SR15)	6.76	7.06	11.3	93	204	*	0.29	108	> 1200	680	*	< 0.05	0.27	< 0.05	6	*	*	22	20.2
12/13/00 9:29 AM	5.00	10423 (SR14)	7.53	7.05	11.1	92	237	*	0.39	16.6	440	200	*	*	0.55	< 0.05	5	*	*	27.9	27.7
12/13/00 10:46 AM	5.00	13628 (SR11)	7.81	7.13	11.1	93	280	*	0.4	24	84	*	*	*	0.5	< 0.05	6	*	*	33.6	32
12/13/00 11:16 AM	5.00	10415 (SR10)	7.8	7.18	11.5	96	269	*	0.47	34.3	73	*	*	< 0.05	0.47	< 0.05	6	*	*	30.4	31.5

\*: Not sampled on this run

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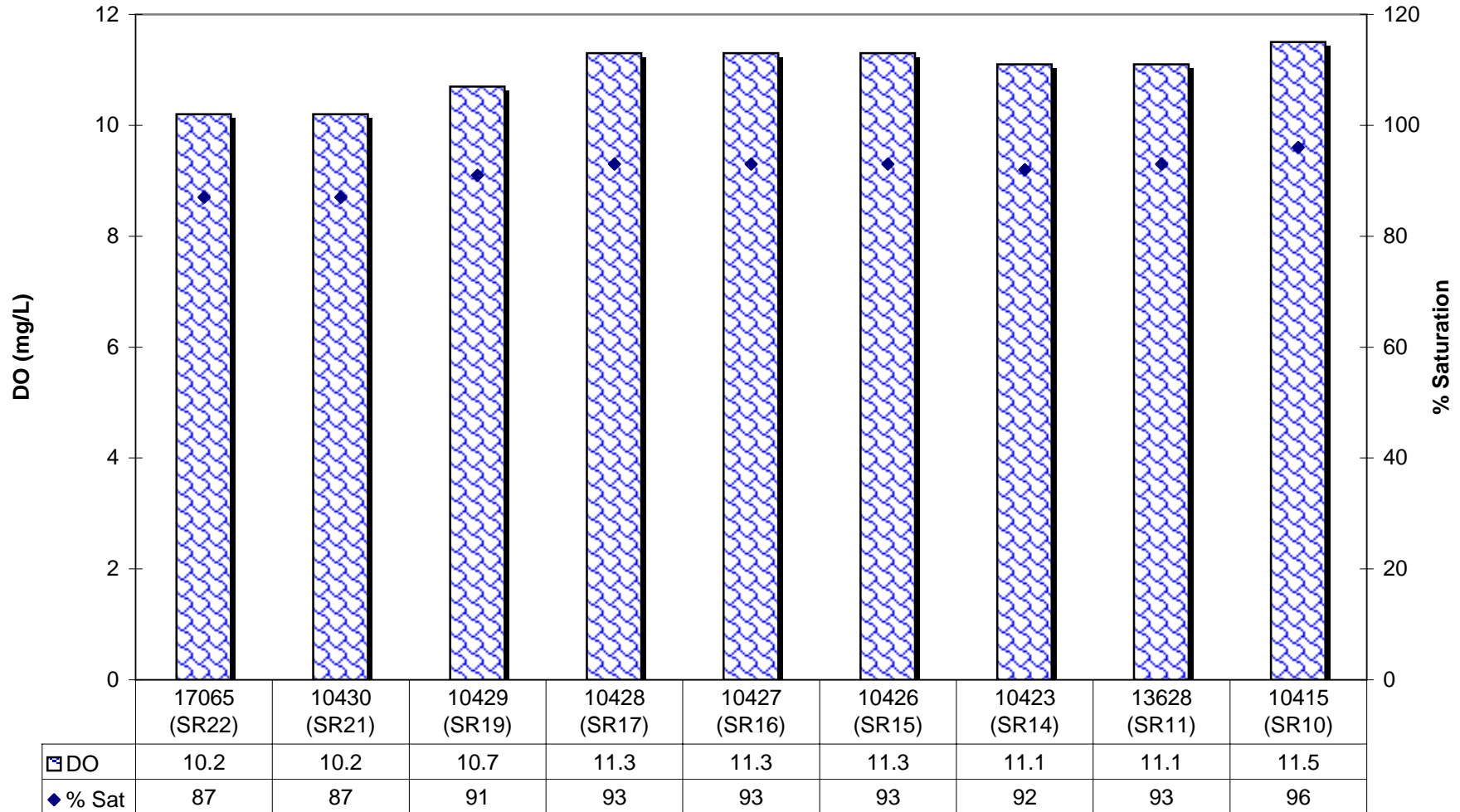
## Upper Sabine Basin DO / % Saturation (1 of 2)



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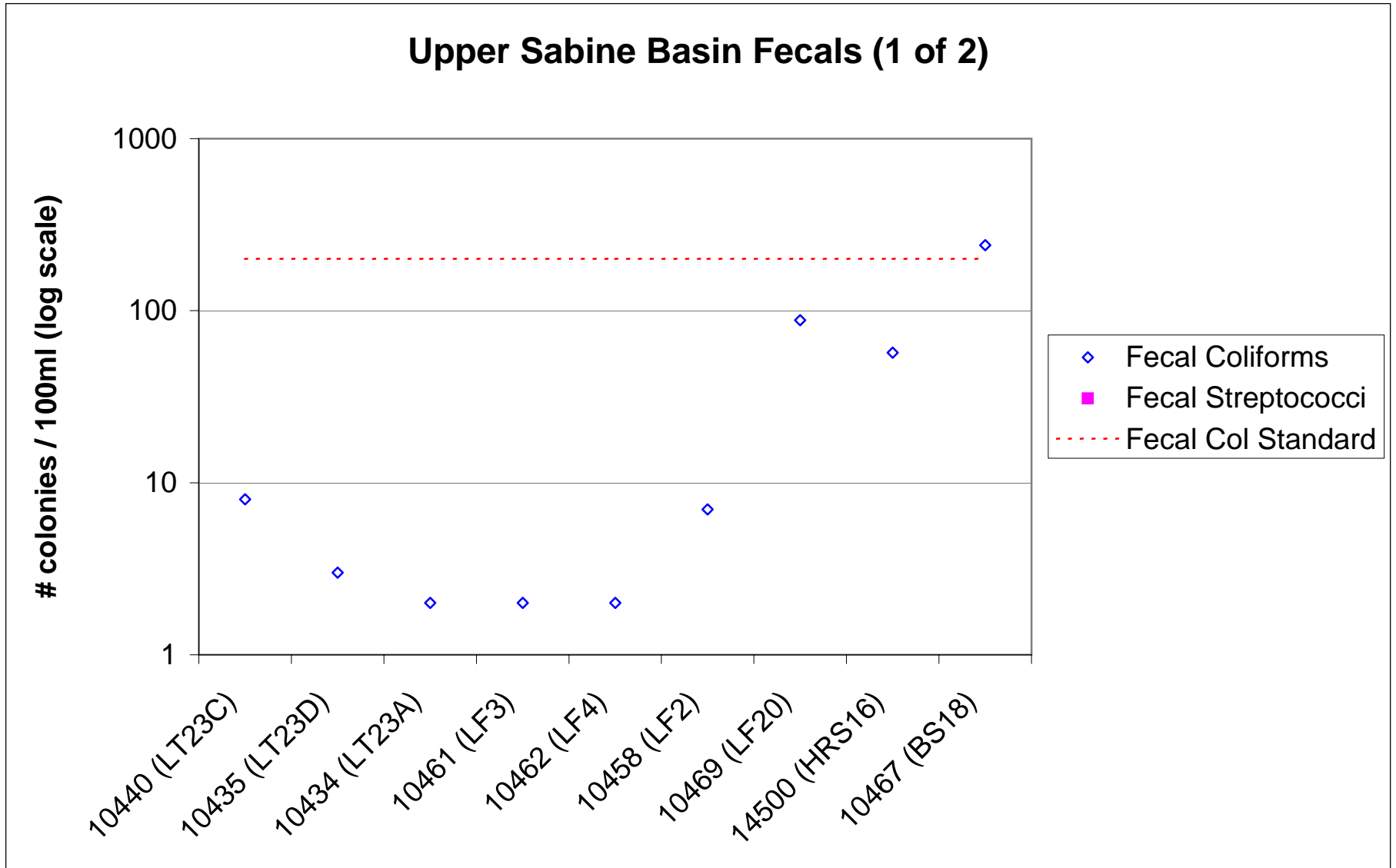
December 2000

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



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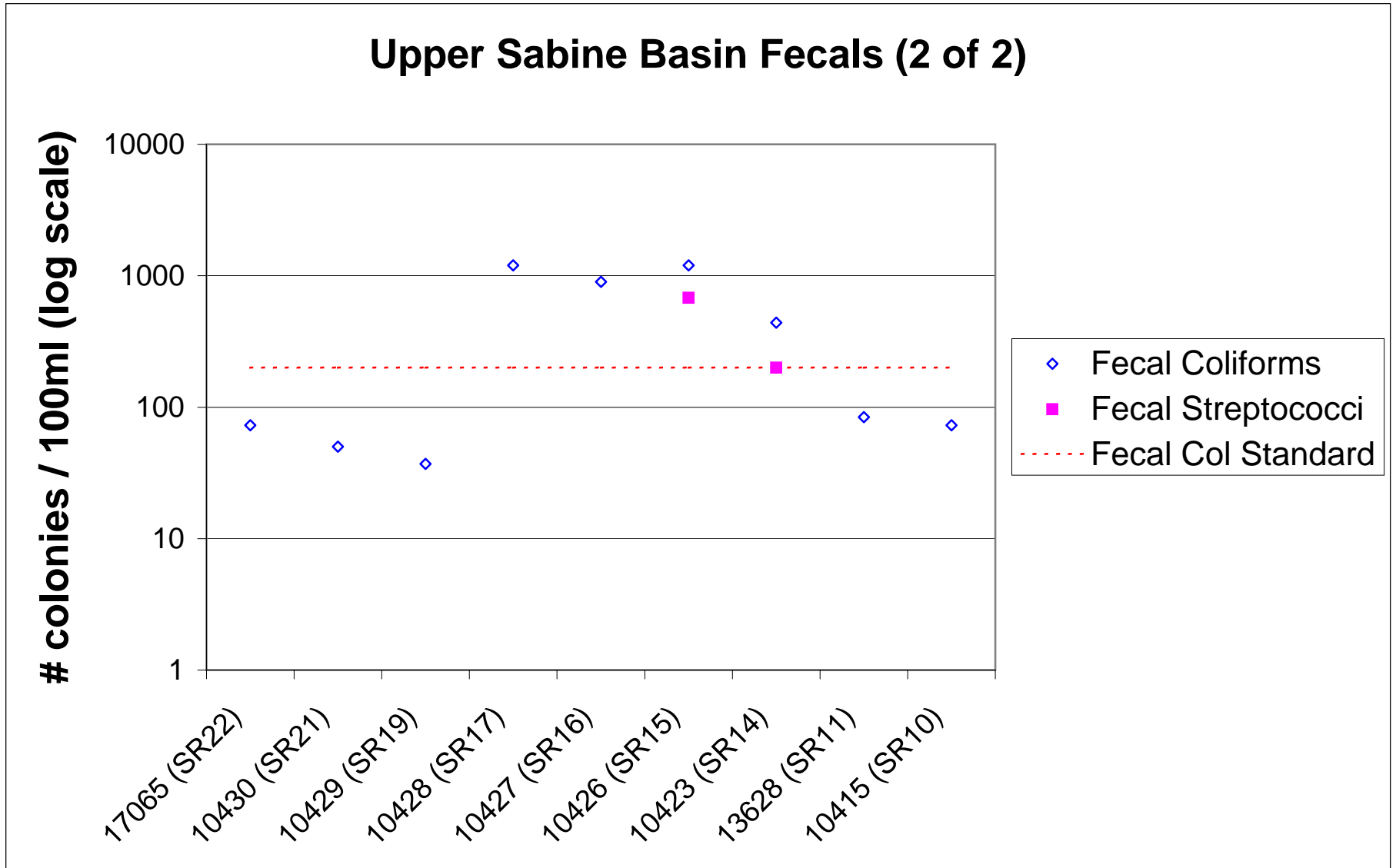
December 2000



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

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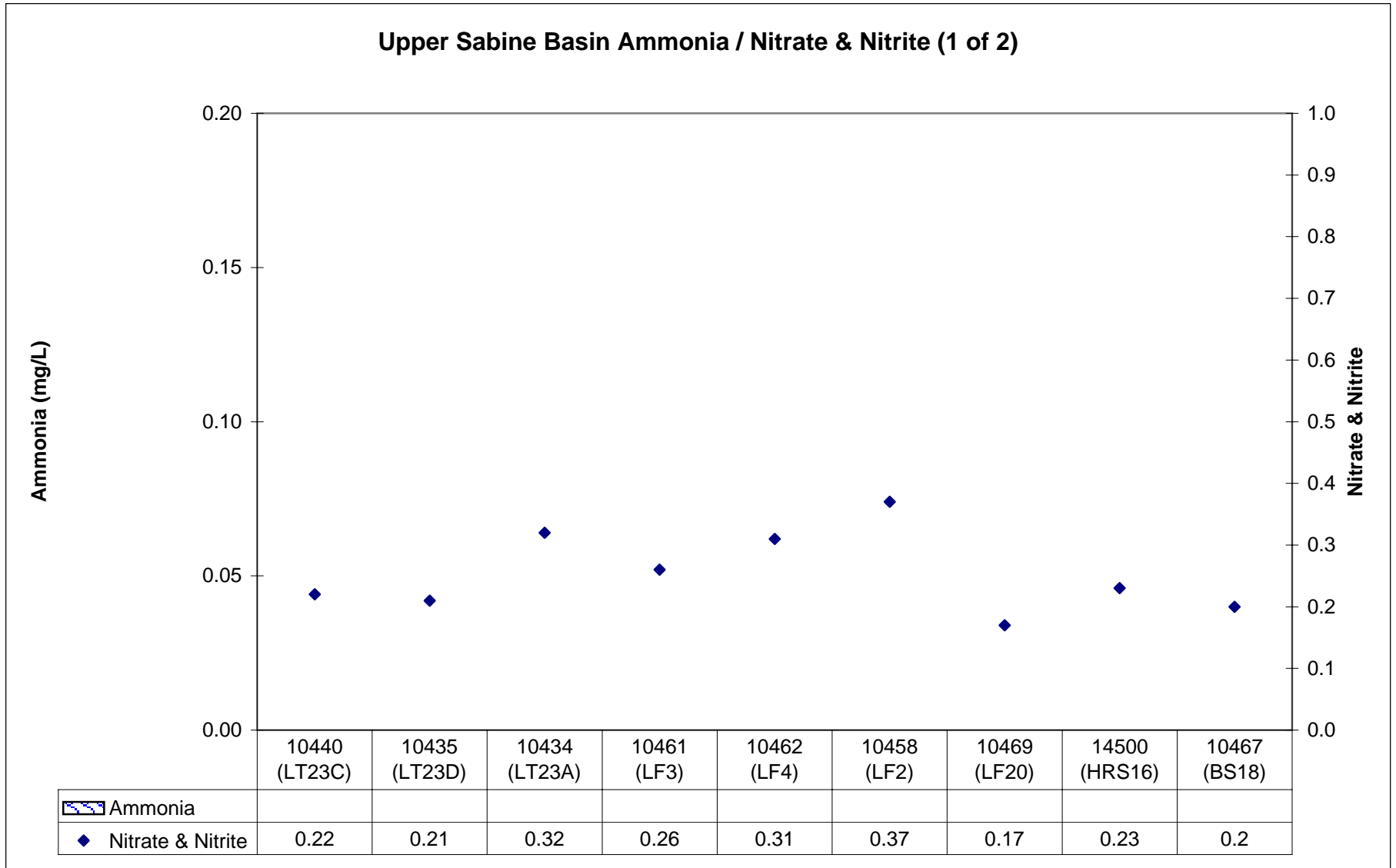
December 2000



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

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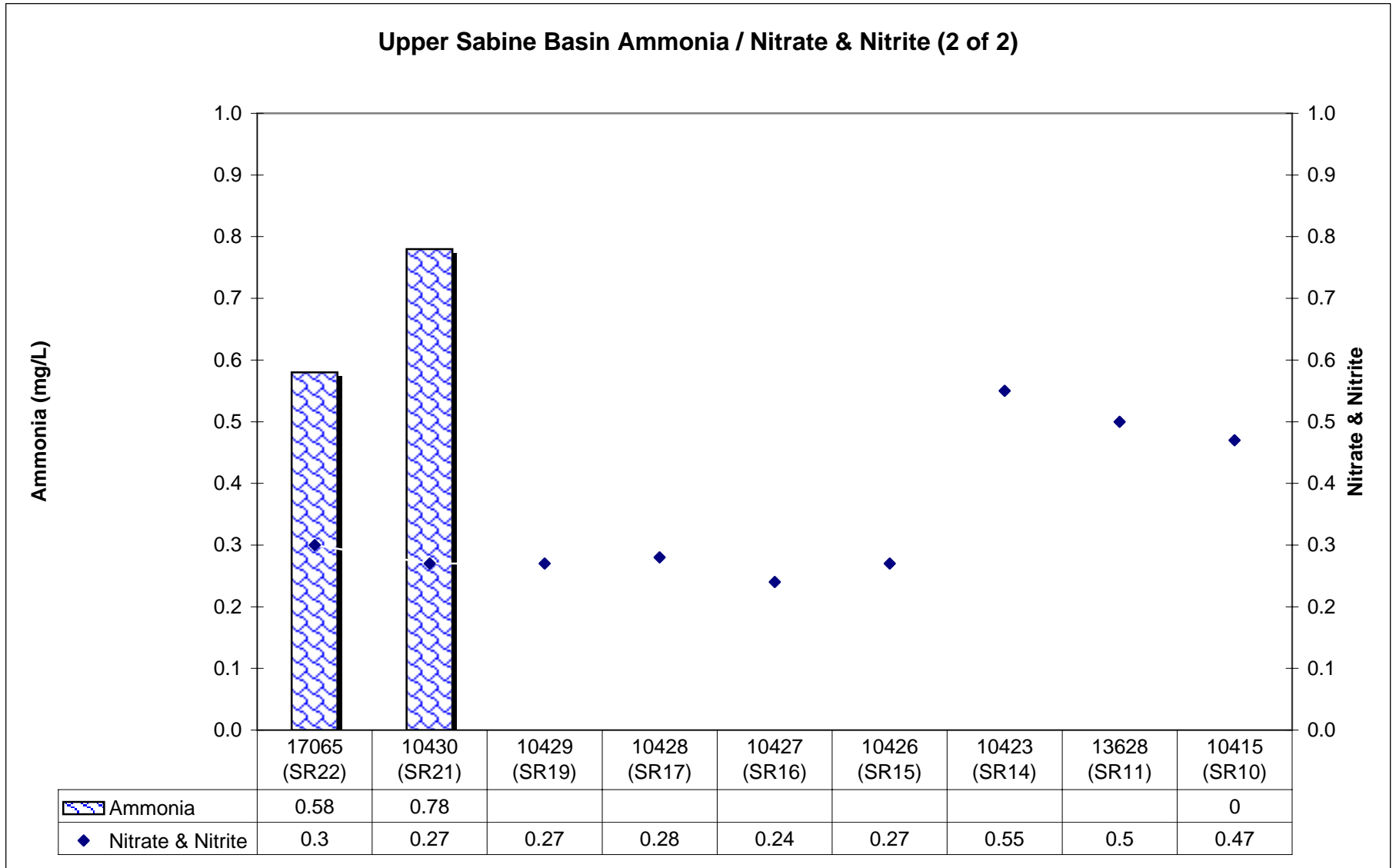
December 2000



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

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

# SABINE RIVER AUTHORITY OF TEXAS

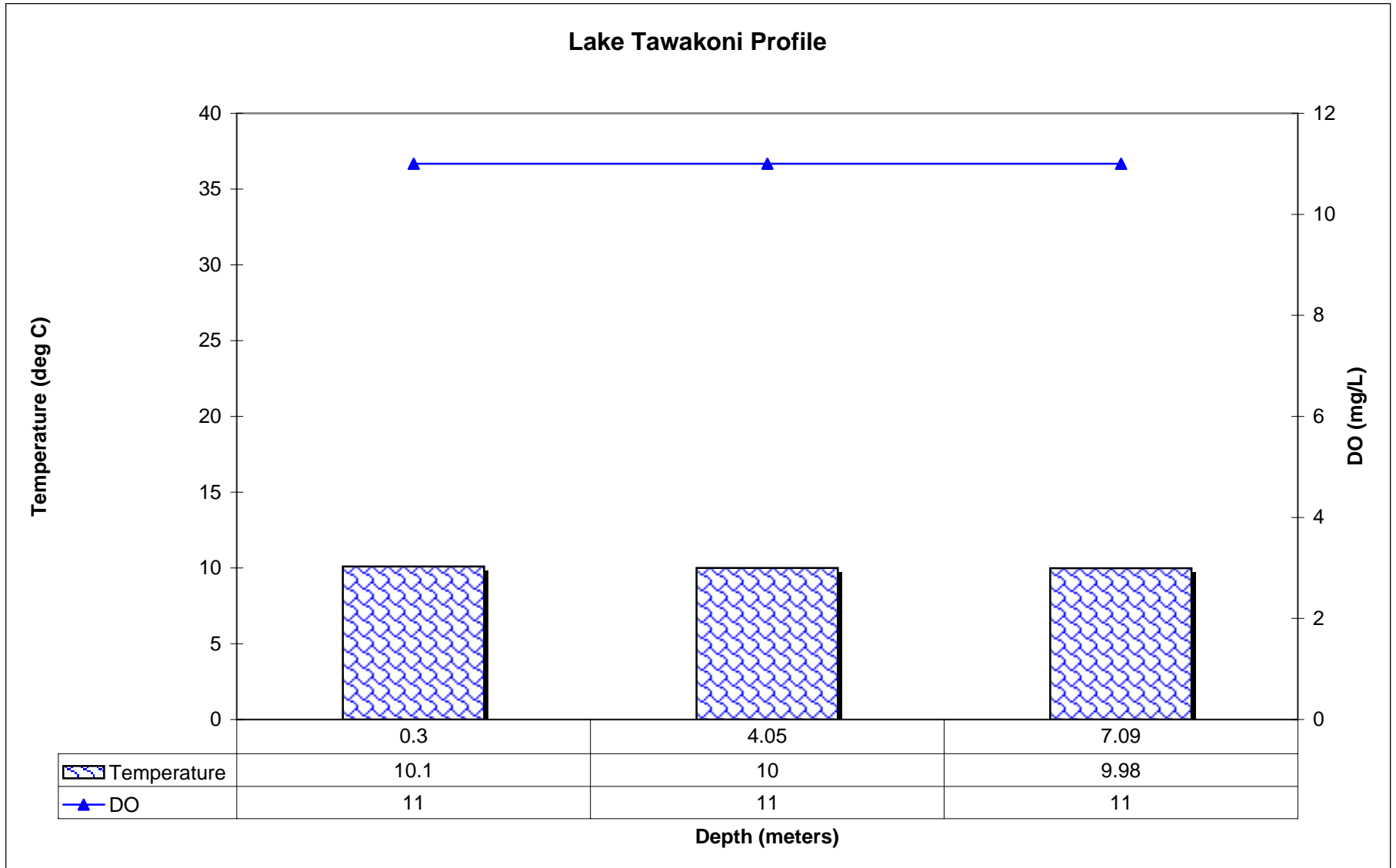
## Upper Basin Profiles

December 2000

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C 00010	Units 00400	mg/L 00300	Saturation 00301	µS/cm 00094
12/12/00 10:49 AM	7.00	10440 (LT23C)	0.3	8.38	7.33	10.9	93	180
			4.66	8.36	7.26	10.9	93	179
12/12/00 10:08 AM	7.00	10435 (LT23D)	0.3	9.17	7.35	10.8	94	183
			5.11	9.2	7.26	10.8	94	183
			9.01	9.14	7.18	10.8	94	181
12/12/00 9:17 AM	7.00	10434 (LT23A)	0.3	10.1	7.2	11	98	193
			4.05	10	7.02	11	97	193
			7.09	9.98	6.86	11	97	193
12/12/00 8:26 AM	6.12	10461 (LF3)	0.3	10.1	6.36	9.83	87	150
			4.18	10.2	6.35	9.82	87	150
			9.82	10.1	6.35	9.82	87	150
12/12/00 8:41 AM	6.12	10462 (LF4)	0.3	10.4	6.38	9.83	88	142
			7.04	10.4	6.35	9.69	87	141
			11.3	9.78	6.32	9.6	85	132
12/12/00 8:01 AM	6.12	10458 (LF2)	0.3	11.2	6.31	9.81	89	152
			4.95	11.2	6.28	9.71	89	152
			17.6	11.2	6.24	8.77	82	152

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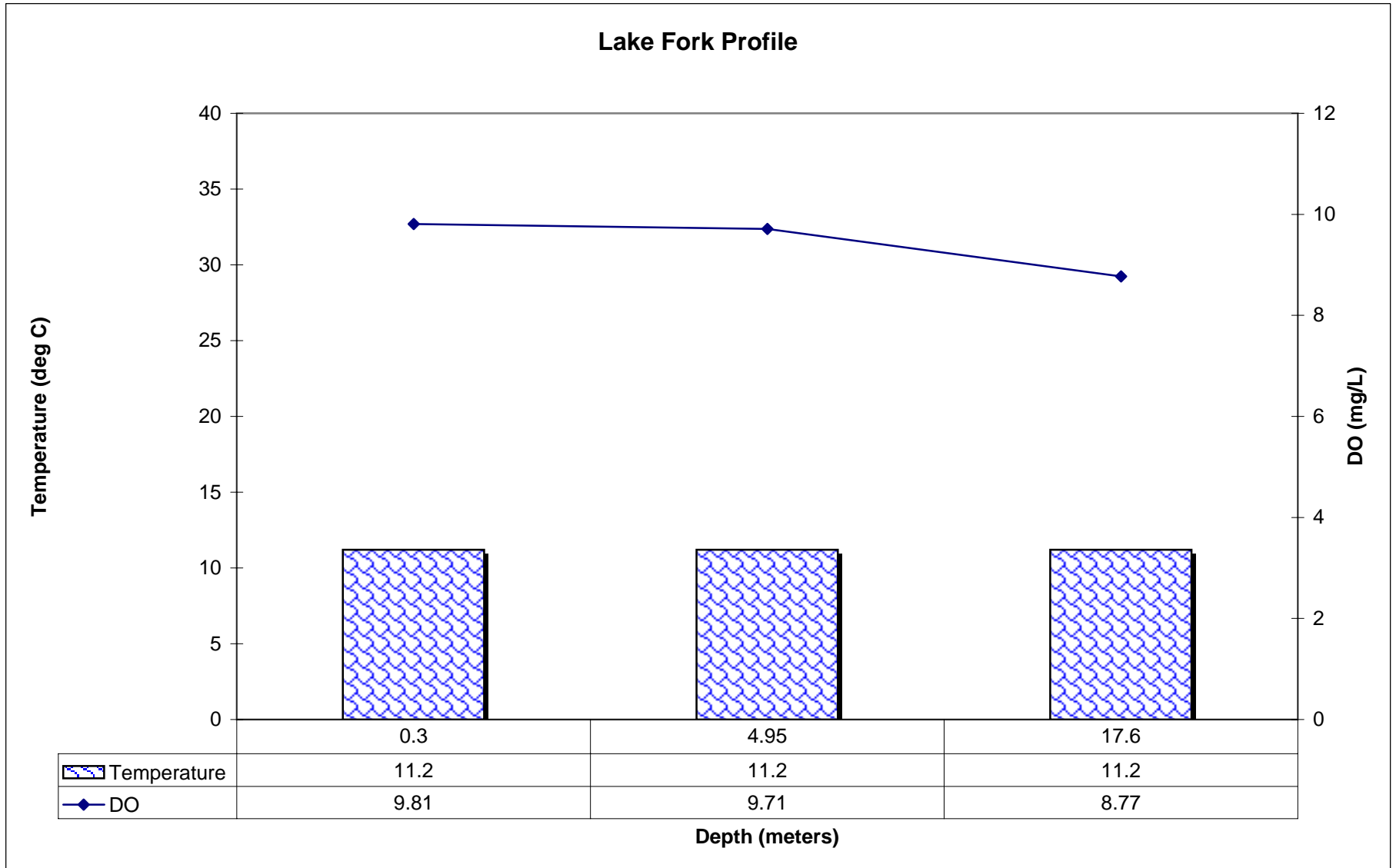
December 2000



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 2000

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
12/01/2000	437.90	0.40	355	64	35	0.00	NR
12/02/2000	437.86	0.36	235	60	33	0.00	NR
12/03/2000	437.76	0.26	125	44	31	0.00	NR
12/04/2000	437.73	0.23	125	45	30	0.00	NR
12/05/2000	437.69	0.19	125	50	30	0.00	NR
12/06/2000	437.68	0.18	125	57	32	0.06	NR
12/07/2000	437.62	0.12	45	48	28	0.00	NR
12/08/2000	437.58	0.08	45	58	29	0.00	NR
12/09/2000	437.53	0.03	45	60	37	0.00	NR
12/10/2000	437.51	0.01	45	60	42	0.00	NR
12/11/2000	437.52	0.02	56	64	56	0.00	NR
12/12/2000	437.49	(0.01)	5	61	17	0.00	NR
12/13/2000	437.46	(0.04)	5	32	18	0.32	NR
12/14/2000	437.46	(0.04)	5	34	23	0.00	NR
12/15/2000	437.44	(0.06)	5	46	25	0.54	NR
12/16/2000	437.43	(0.07)	5	50	34	0.03	0.00
12/17/2000	437.41	(0.09)	5	50	21	0.00	0.00
12/18/2000	437.36	(0.14)	5	44	24	0.00	NR
12/19/2000	437.38	(0.12)	5	52	27	0.00	NR
12/20/2000	437.25	(0.25)	5	41	27	0.00	NR
12/21/2000	437.30	(0.20)	5	61	30	0.00	NR
12/22/2000	437.21	(0.29)	5	46	21	0.00	NR
12/23/2000	437.18	(0.32)	5	46	24	0.00	NR
12/24/2000	437.18	(0.32)	5	44	32	0.00	NR
12/25/2000	437.14	(0.36)	5	40	32	0.08	NR
12/26/2000	437.54	0.04	45	36	34	2.86	NR
12/27/2000	438.60	1.10	1715	34	32	0.94	NR
12/28/2000	439.50	2.00	4545	33	31	0.90	NR
12/29/2000	439.70	2.20	5305	42	30	0.00	NR
12/30/2000	439.52	2.02	4545	40	23	0.00	NR
12/31/2000	439.27	1.77	3825	36	24	0.00	NR
<b>Avg or Tot</b>	437.78	0.28	690	48	29	5.73	0.00

	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.					

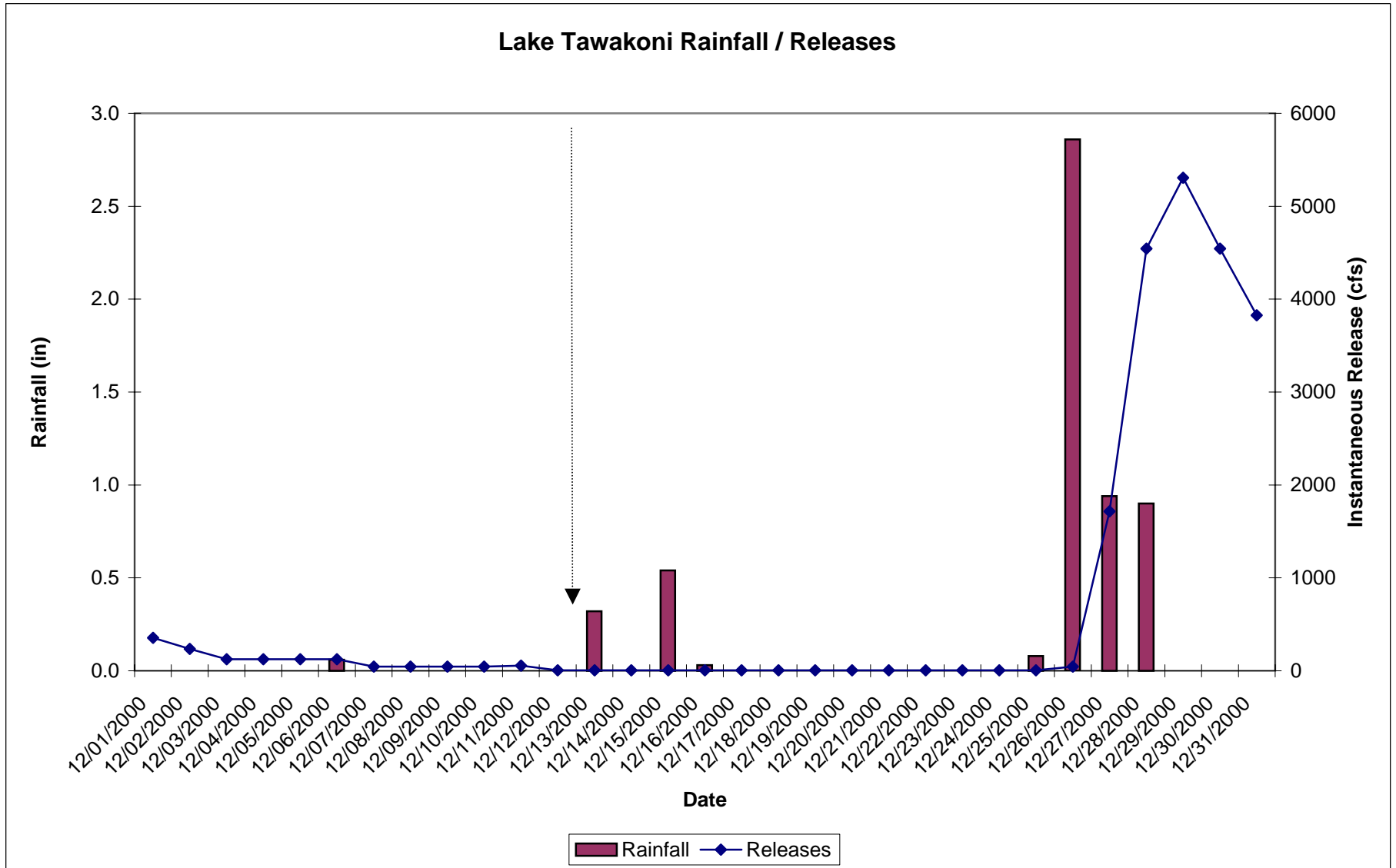
NR: No Reading

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

Lake Tawakoni Sampled on 12/12/2000

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



Please Note : Lake Tawakoni has an uncontrolled spillway.

# SABINE RIVER AUTHORITY OF TEXAS

## Lake Fork Weather and Reservoir Data

December 2000

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
12/01/2000	402.74	(0.26)	6	6	60	35	0.01	0.18
12/02/2000	402.74	(0.26)	6	6	56	37	0.00	0.11
12/03/2000	402.74	(0.26)	6	6	44	33	0.00	0.06
12/04/2000	402.74	(0.26)	6	6	44	29	0.00	0.11
12/05/2000	402.74	(0.26)	6	6	52	30	0.00	0.06
12/06/2000	402.74	(0.26)	6	6	58	31	0.04	0.03
12/07/2000	402.74	(0.26)	6	6	49	30	0.01	0.04
12/08/2000	402.69	(0.31)	6	6	57	33	0.00	0.11
12/09/2000	402.69	(0.31)	6	6	61	37	0.00	0.09
12/10/2000	402.69	(0.31)	6	6	57	40	0.00	0.05
12/11/2000	402.69	(0.31)	6	6	64	57	0.00	0.01
12/12/2000	402.69	(0.31)	6	6	64	19	0.00	FZ
12/13/2000	402.84	(0.16)	6	6	31	19	0.47	FZ
12/14/2000	402.84	(0.16)	6	6	35	26	0.65	FZ
12/15/2000	402.84	(0.16)	6	6	45	29	0.17	0.00
12/16/2000	402.89	(0.11)	6	6	51	35	0.13	0.00
12/17/2000	402.89	(0.11)	6	6	52	24	0.00	0.00
12/18/2000	402.84	(0.16)	6	6	52	24	0.00	0.23
12/19/2000	402.89	(0.11)	6	6	53	28	0.00	0.00
12/20/2000	402.84	(0.16)	6	6	40	27	0.00	FZ
12/21/2000	402.84	(0.16)	6	6	61	32	0.00	FZ
12/22/2000	402.84	(0.16)	6	6	47	22	0.00	0.04
12/23/2000	402.79	(0.21)	6	6	46	24	0.00	0.23
12/24/2000	402.79	(0.21)	6	6	43	33	0.01	0.02
12/25/2000	402.79	(0.21)	6	6	41	33	0.10	0.00
12/26/2000	403.24	0.24	6	3471	33	22	2.20	0.00
12/27/2000	403.89	0.89	3471	7217	35	32	1.60	0.00
12/28/2000	403.89	0.89	7217	7217	34	32	0.48	0.00
12/29/2000	403.69	0.69	7217	3534	43	33	0.01	0.05
12/30/2000	403.54	0.54	3534	3534	41	25	0.00	0.00
12/31/2000	403.29	0.29	3534	3534	38	26	0.00	0.00
<b>Avg or Tot</b>	402.94	(0.06)	811	924	48	30	5.88	1.42

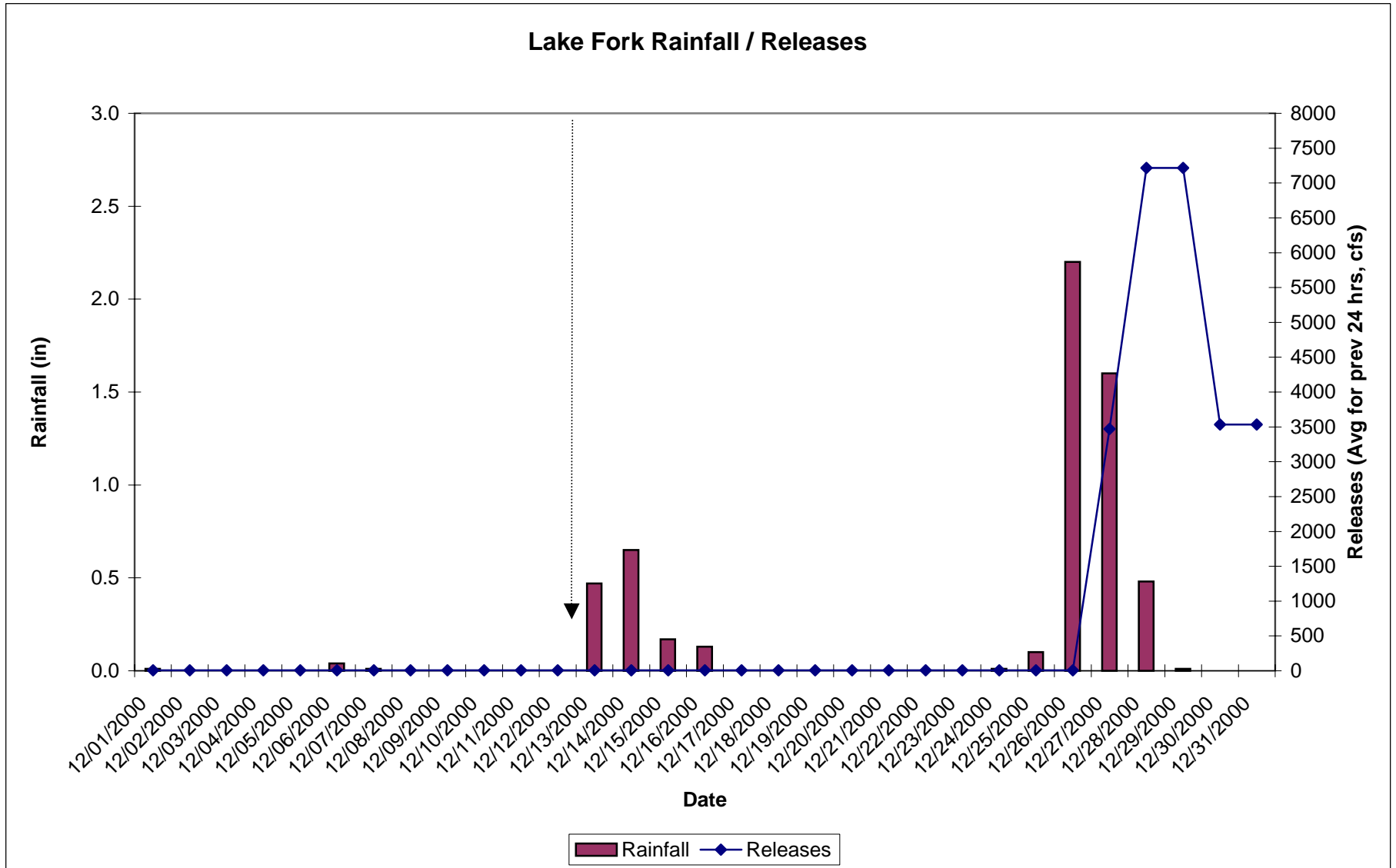
	Avg	Avg	Avg	Avg	Avg	Avg	Tot	Tot
Units	Feet M.S.L.	Feet	cfs Previous 24 hrs	cfs	Deg F	Deg F	Inches	Inches

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

Lake Fork Sampled on 12/12/2000

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December 2000



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# Current WQMP Stations

## Lower Sabine Basin

<i>SW</i>	<i>Segment</i>	<i>Station</i>	<i>Location</i>
4.14	0504	10339 (TNHO1)	TENAHA CREEK AT CO RD S OF CAMPTI
4.10	0504	15658 (TB6N)	BAYOU SCIE AT LA SH 191
4.00	0504	10403 (TB8)	TOLEDO BEND RESERVOIR AT US 84
4.00	0504	15657 (TB6M)	TOLEDO BEND RESERVOIR SAN PATRICIA ARM AT LA SH191
4.00	0504	15656 (TB6L)	TOLEDO BEND RESERVOIR SAN MIGUEL ARM AT LA SH191
4.00	0504	15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU ARM AT SH 276
4.00	0504	15659 (TB6K)	TOLEDO BEND RESERVOIR LANANA ARM AT LA SH191
4.00	0504	10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21
4.00	0504	10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY AT FM 3121
4.00	0504	10407 (TB6CN)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE AT SH 87
4.00	0504	10404 (TB6A)	TOLEDO BEND RESERVOIR NEAR DAM IN RIVER CHANNEL
3.03	0503	10340 (BA4)	ANACOCO BAYOU AT LOUISIANA HWY 111
3.00	0503	10401 (TB6S)	SABINE RIVER BELOW TOLEDO BEND SPILLWAY
3.00	0503	10400 (TB6)	TAIL RACE CHANNEL AT FM 692 TB6
3.00	0503	10399 (SR5)	SABINE RIVER AT SH 63
3.00	0503	10398 (SR3)	SABINE RIVER AT US 190
2.05	0513	10465 (BCC1)	BIG COW CREEK AT FM 1416
2.00	0503	10397 (SR2)	SABINE RIVER AT SH 12

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Report

December 2000

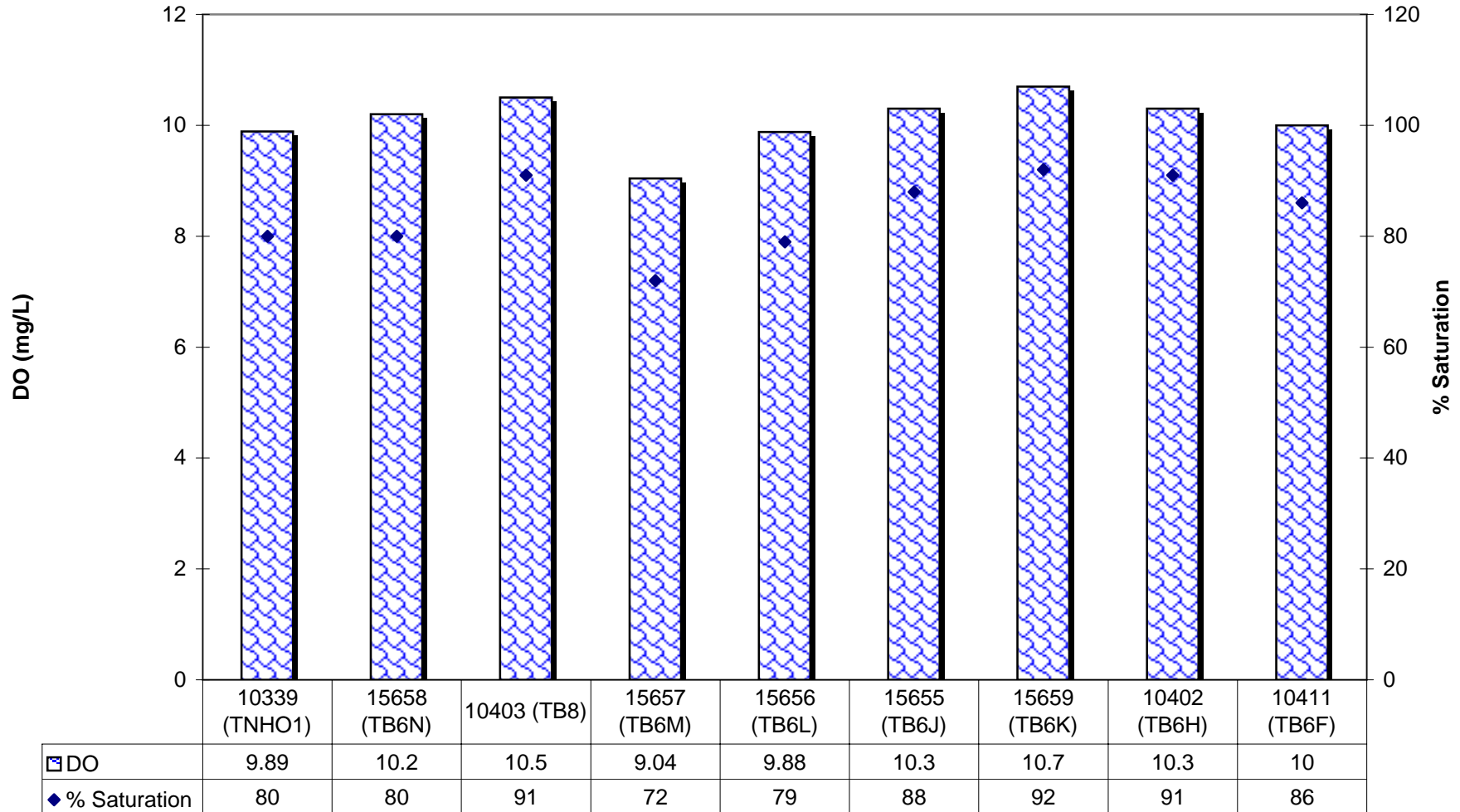
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
12/13/00 12:24 PM	4.14	10339 (TNHO1)	6.3	6.88	9.89	80	277	*	0.4	71.1	> 1200	1000	*	0.28	2.26	2.3	10	*	*	28.2	36.5
12/19/00 12:15 PM	4.10	15658 (TB6N)	5.39	6.16	10.2	80	249	*	0.55	14.4	80	43	*	< 0.05	0.09	< 0.05	10	*	*	20.4	55.7
12/13/00 11:44 AM	4.00	10403 (TB8)	9.1	7.13	10.5	91	252	*	0.57	20.2	320	*	*	< 0.05	0.44	< 0.05	7	*	*	29.4	31
12/19/00 12:40 PM	4.00	15657 (TB6M)	5.78	5.56	9.04	72	128	*	0.44	22.8	360	*	*	< 0.05	0.18	< 0.05	12	*	*	12.7	18.1
12/19/00 12:25 PM	4.00	15656 (TB6L)	5.72	5.89	9.88	79	111	*	0.27	30.4	460	*	*	< 0.05	0.24	0.08	12	*	*	9.4	14.7
12/19/00 10:17 AM	4.00	15655 (TB6J)	8.22	6.74	10.3	88	178	*	0.66	11.4	96	*	*	0.67	0.09	< 0.05	6	*	*	16.3	22.3
12/19/00 12:00 PM	4.00	15659 (TB6K)	8.93	7.27	10.7	92	185	*	0.79	6.67	< 2	*	*	< 0.05	0.03	< 0.05	6	*	*	18.8	17.6
12/19/00 11:00 AM	4.00	10402 (TB6H)	9.68	7.46	10.3	91	201	*	*	2.08	< 2	*	*	< 0.05	0.08	< 0.05	6	*	*	20.3	15.6
12/19/00 10:40 AM	4.00	10411 (TB6F)	8.56	6.75	10	86	124	*	0.71	8.64	14	*	*	< 0.05	0.11	< 0.05	6	*	*	10.1	16.1
12/19/00 9:40 AM	4.00	10407 (TB6CN)	7.89	6.3	9.87	83	84	*	0.58	14.6	40	*	*	< 0.05	0.04	< 0.05	9	*	*	5.5	11.4
	4.00	10404 (TB6A)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12/19/00 11:44 AM	3.03	10340 (BA4)	8.2	6.93	10.2	87	419	*	0.54	27	> 1200	30	*	< 0.05	0.12	< 0.05	12	*	*	34.9	96
12/19/00 9:46 AM	3.00	10401 (TB6S)	6.85	7.85	12.2	98	182	*	> 1.2	< 1	2	*	*	< 0.05	0.04	< 0.05	5	*	*	15.8	17.4
12/19/00 10:09 AM	3.00	10400 (TB6)	11.3	7.82	10.9	99	166	*	2.2	1.39	< 2	*	*	< 0.05	0.09	< 0.05	5	*	*	15.9	13.2
12/19/00 11:11 AM	3.00	10399 (SR5)	10.2	7.62	10.3	91	157	*	*	10.3	36	*	*	< 0.05	0.09	< 0.05	5	*	*	14.5	13.4
12/19/00 12:48 PM	3.00	10398 (SR3)	9.81	7.54	10.4	92	181	*	0.53	8.9	72	*	*	< 0.05	0.1	< 0.05	6	*	*	16.8	19.4
12/19/00 1:18 PM	2.05	10465 (BCC1)	8.19	6.05	10.8	90	60	*	> 0.9	9.19	40	*	*	< 0.05	0.04	< 0.05	8	*	*	6.8	< 10
12/19/00 1:57 PM	2.00	10397 (SR2)	10.1	7.19	10.3	91	164	*	0.74	13.2	50	*	*	< 0.05	0.09	< 0.05	6	*	*	15.4	17

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

December 2000

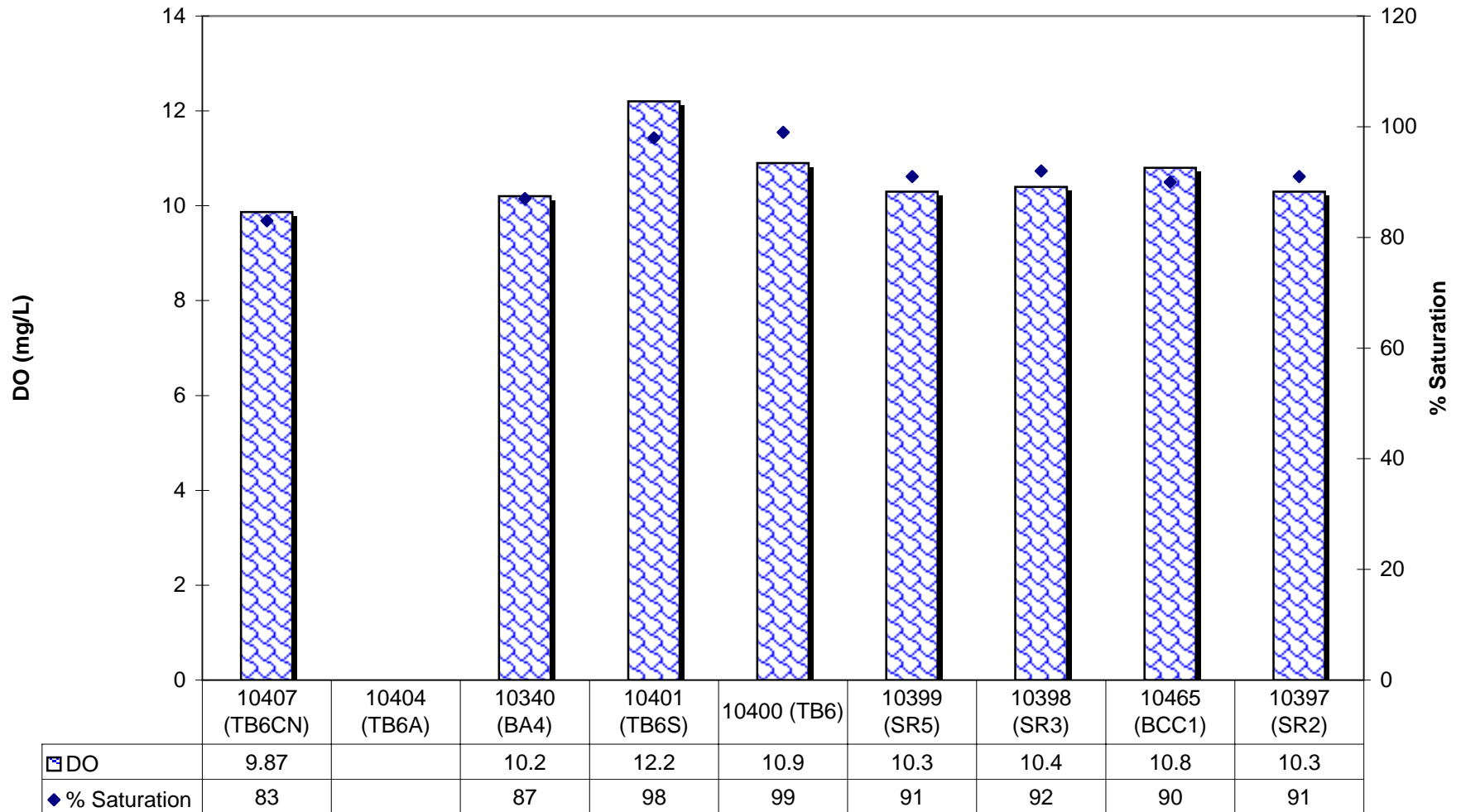
## Lower Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

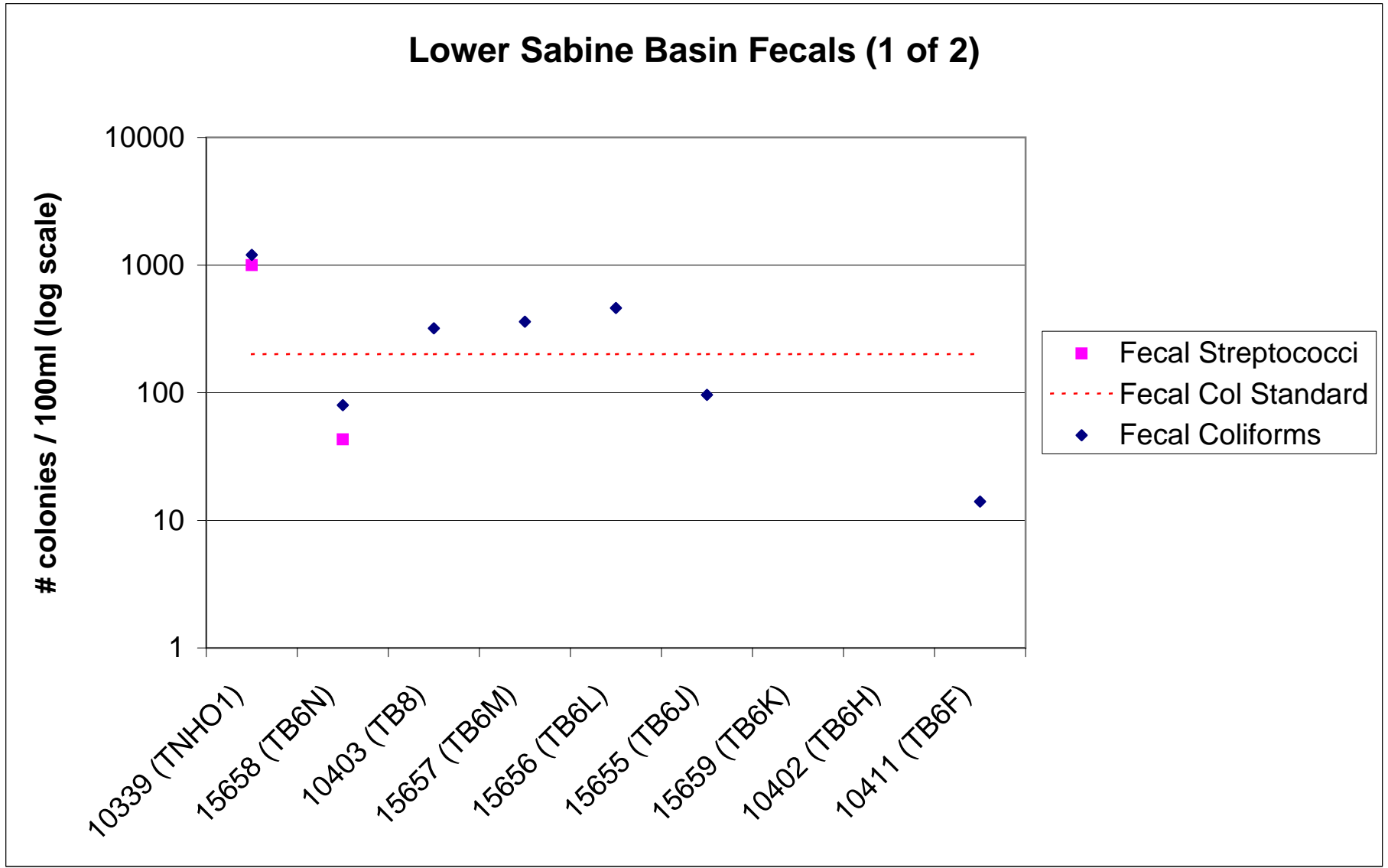
December 2000

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



# SABINE RIVER AUTHORITY OF TEXAS

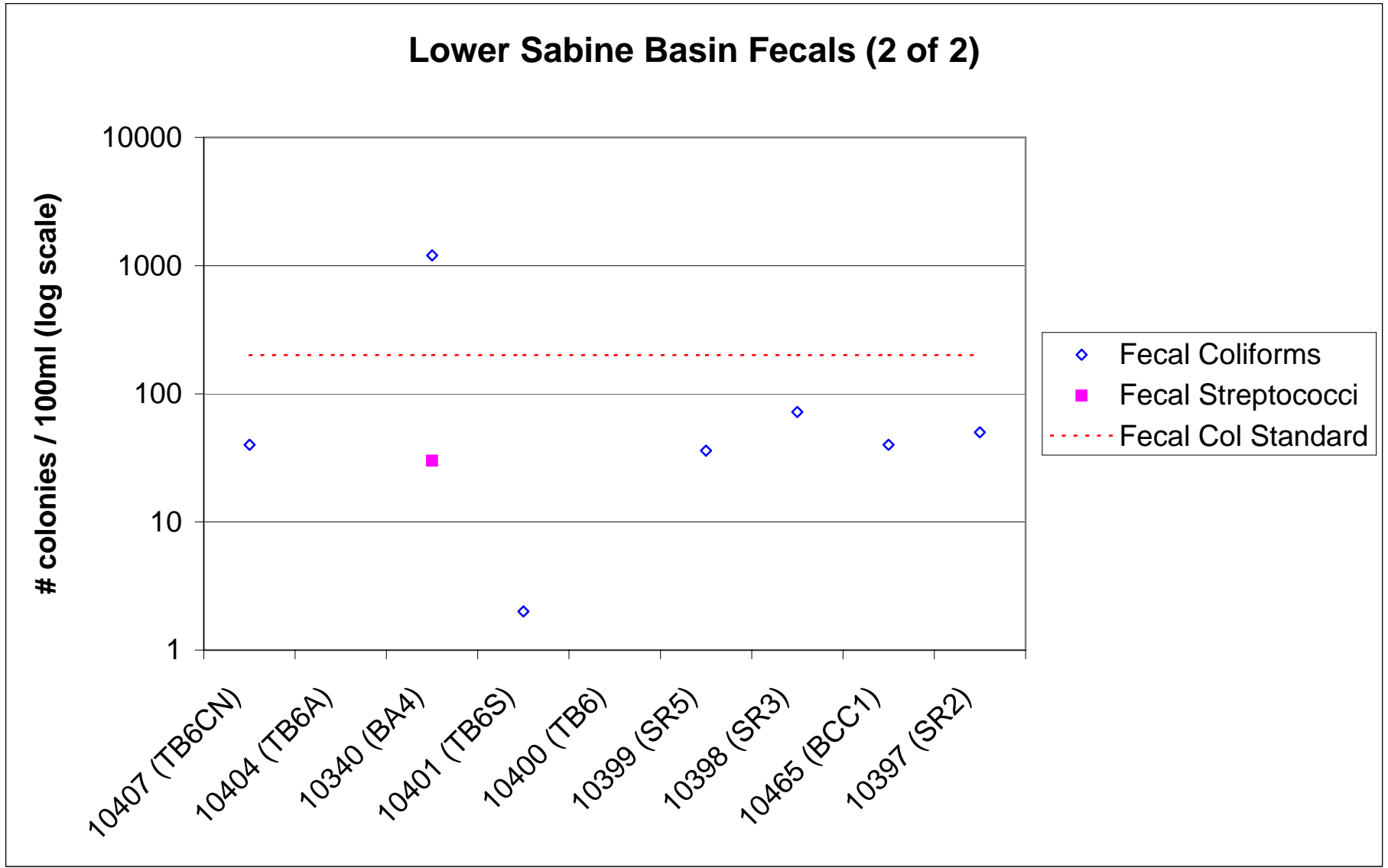
December 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

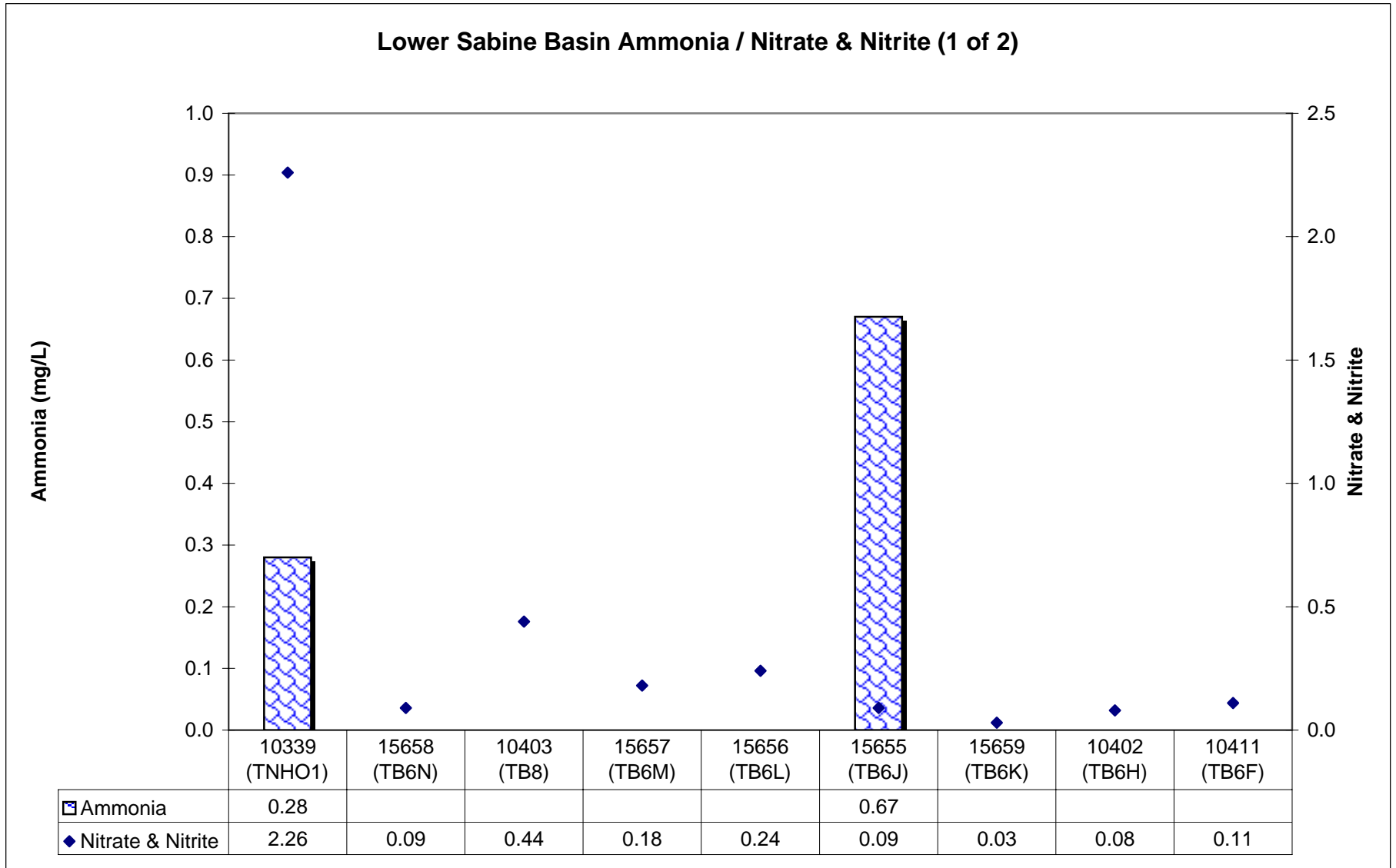
December 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

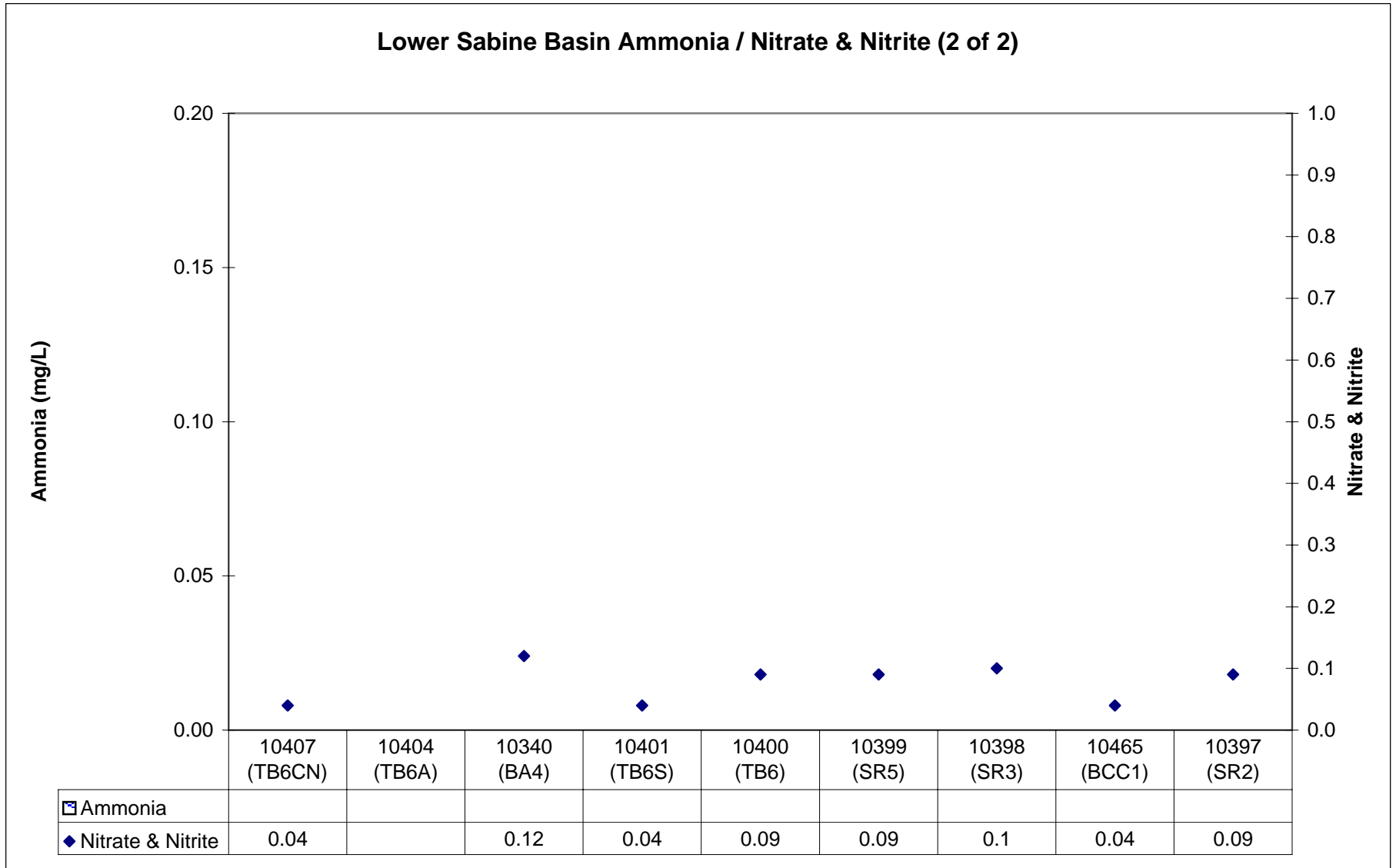
December 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Profiles

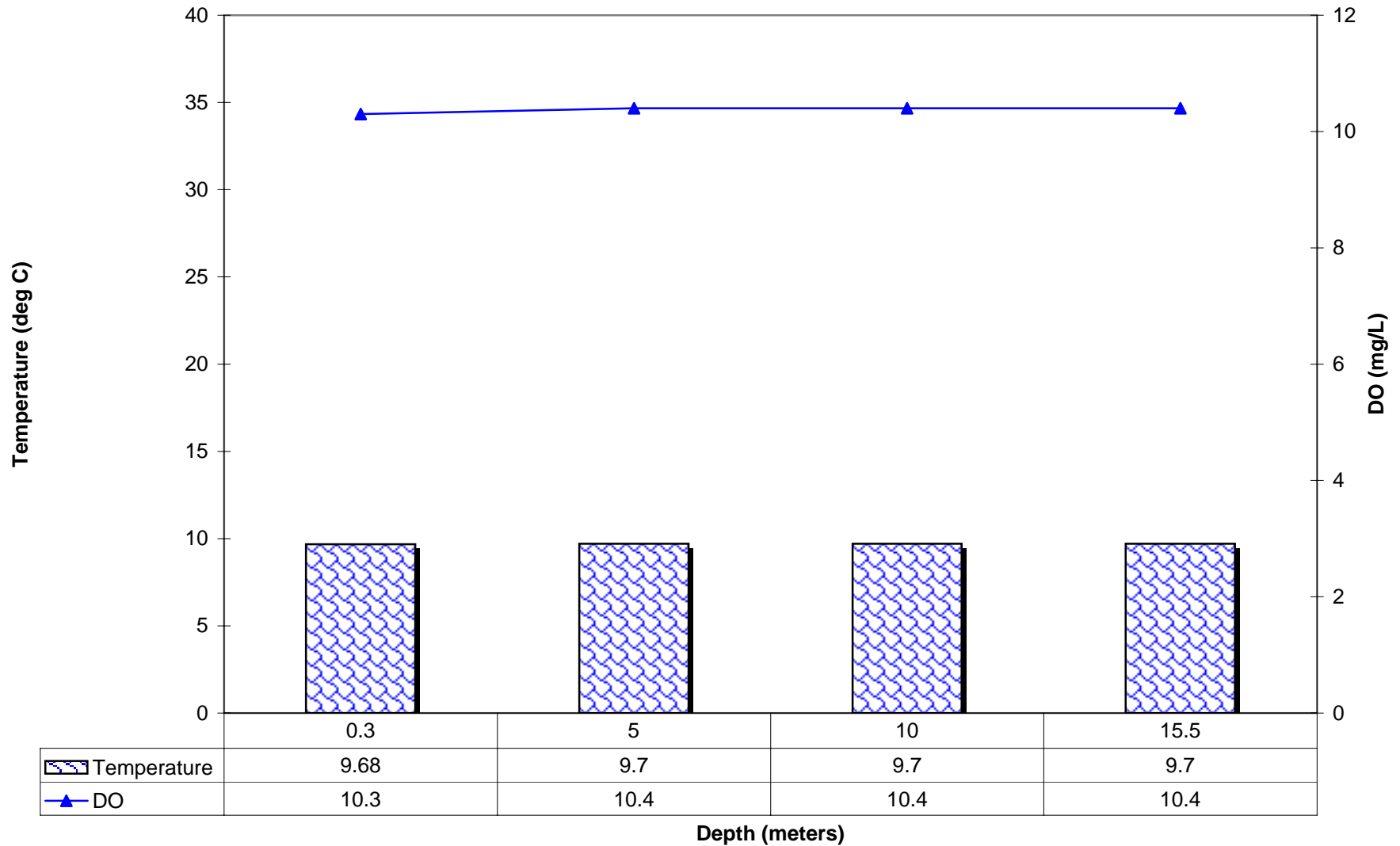
December 2000

Date	SW ID	Station	Depth Meters	Temperature	pH	DO	%	Conductivity
				°C	Units	mg/L	Saturation	µS/cm
				00010	00400	00300	00301	00094
12/19/00 12:40 PM	4.00	15657 (TB6M)	0.3	5.78	5.56	9.04	72	128
			3.8	5.78	5.47	8.9	71	128
12/19/00 10:17 AM	4.00	15655 (TB6J)	0.3	8.22	6.74	10.3	88	178
			4.2	8.24	6.56	10.3	88	180
12/19/00 12:00 PM	4.00	15659 (TB6K)	0.3	8.93	7.27	10.7	92	185
			6	8.91	7.04	10.6	91	179
			9.3	8.91	6.58	10.7	92	188
12/19/00 11:00 AM	4.00	10402 (TB6H)	0.3	9.68	7.46	10.3	91	201
			5	9.7	7.43	10.4	91	193
			10	9.7	7.39	10.4	91	201
			15.5	9.7	7.23	10.4	91	195
12/19/00 10:40 AM	4.00	10411 (TB6F)	0.3	8.56	6.75	10	86	124
			2.5	8.6	6.71	10	86	125
			4.9	8.61	6.62	10.1	86	127
12/19/00 9:40 AM	4.00	10407 (TB6CN)	0.3	7.89	6.3	9.87	83	84
			3	7.86	6.26	9.86	83	84
			6.5	7.79	6.15	10.1	84	86

# SABINE RIVER AUTHORITY OF TEXAS

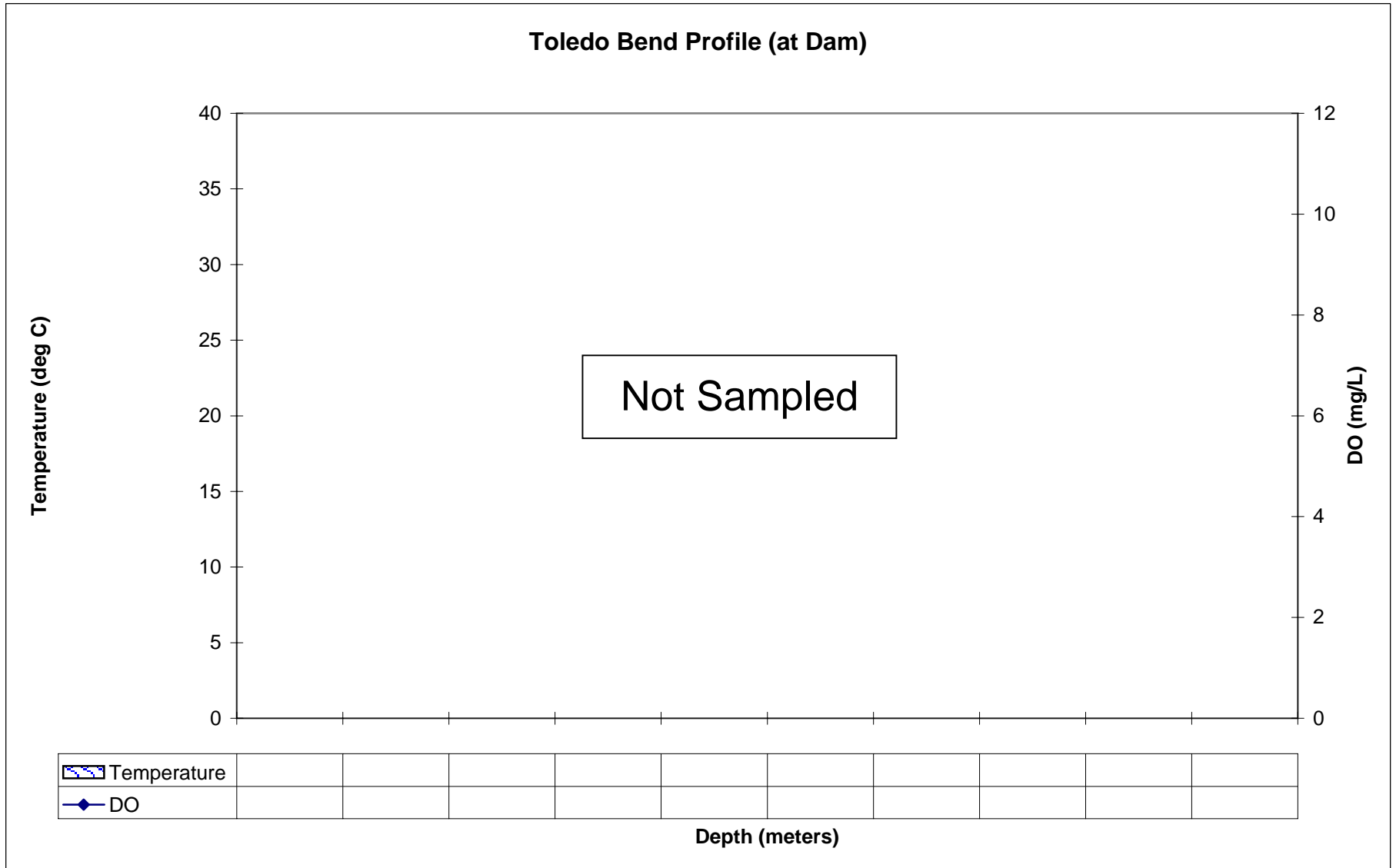
December 2000

## Toledo Bend Profile (at Pendleton Bridge)



# SABINE RIVER AUTHORITY OF TEXAS

December 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Toledo Bend Weather and Reservoir Data

December 2000

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
12/01/2000	168.71	(3.29)	64	36	0.00	0.08	7379	14636	15150
12/02/2000	168.79	(3.21)	59	38	0.12	0.09	7298	14475	14875
12/03/2000	168.50	(3.50)	51	36	0.00	0.13	7210	14300	15550
12/04/2000	168.59	(3.41)	48	36	0.00	0.03	6221	12339	15031
12/05/2000	168.52	(3.48)	50	28	0.00	FZ	6926	13738	15114
12/06/2000	168.44	(3.56)	56	28	0.00	0.16	7453	14783	14796
12/07/2000	168.45	(3.55)	50	37	0.25	0.05	7100	14083	14919
12/08/2000	168.34	(3.66)	52	30	0.00	0.02	7339	14557	14984
12/09/2000	168.36	(3.64)	60	31	0.00	0.04	3632	7204	7280
12/10/2000	168.29	(3.71)	66	36	0.00	0.10	3354	6653	7410
12/11/2000	168.24	(3.76)	72	44	0.00	0.02	3535	7012	7312
12/12/2000	168.40	(3.60)	73	26	0.06	0.19	5877	11657	7200
12/13/2000	168.22	(3.78)	38	28	0.13	NR	7110	14102	12535
12/14/2000	168.18	(3.82)	46	34	1.55	NR	3189	6325	15194
12/15/2000	168.19	(3.81)	40	34	0.00	0.05	3568	7077	14120
12/16/2000	168.25	(3.75)	67	37	0.17	NR	3811	7559	14100
12/17/2000	168.49	(3.51)	66	30	0.00	FZ	3420	6783	13735
12/18/2000	168.30	(3.70)	46	28	0.00	FX	3285	6516	13275
12/19/2000	168.64	(3.36)	55	38	0.10	0.09	3691	7321	14500
12/20/2000	168.34	(3.66)	43	22	0.00	FZ	3410	6764	13650
12/21/2000	168.67	(3.33)	53	24	0.02	NR	3330	6605	6330
12/22/2000	168.59	(3.41)	51	27	0.00	0.01	4915	9749	6550
12/23/2000	168.46	(3.54)	47	27	0.00	0.21	60	119	6000
12/24/2000	168.54	(3.46)	48	35	0.03	0.07	60	119	60
12/25/2000	168.57	(3.43)	45	40	0.40	0.05	4799	9519	60
12/26/2000	168.67	(3.33)	42	38	0.67	0.06	4349	8626	6080
12/27/2000	168.89	(3.11)	60	36	0.32	0.15	9284	18415	7030
12/28/2000	168.99	(3.01)	43	37	0.15	0.08	10310	20450	14600
12/29/2000	169.24	(2.76)	45	37	0.00	0.07	10050	19934	14070
12/30/2000	169.31	(2.69)	46	30	0.00	0.30	60	119	60
12/31/2000	169.50	(2.50)	45	24	0.00	0.24	60	119	60
<b>Avg or Tot</b>	<b>168.57</b>	<b>(3.43)</b>	<b>52</b>	<b>33</b>	<b>3.97</b>	<b>2.29</b>	<b>4906</b>	<b>301658</b>	

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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NR: No Reading

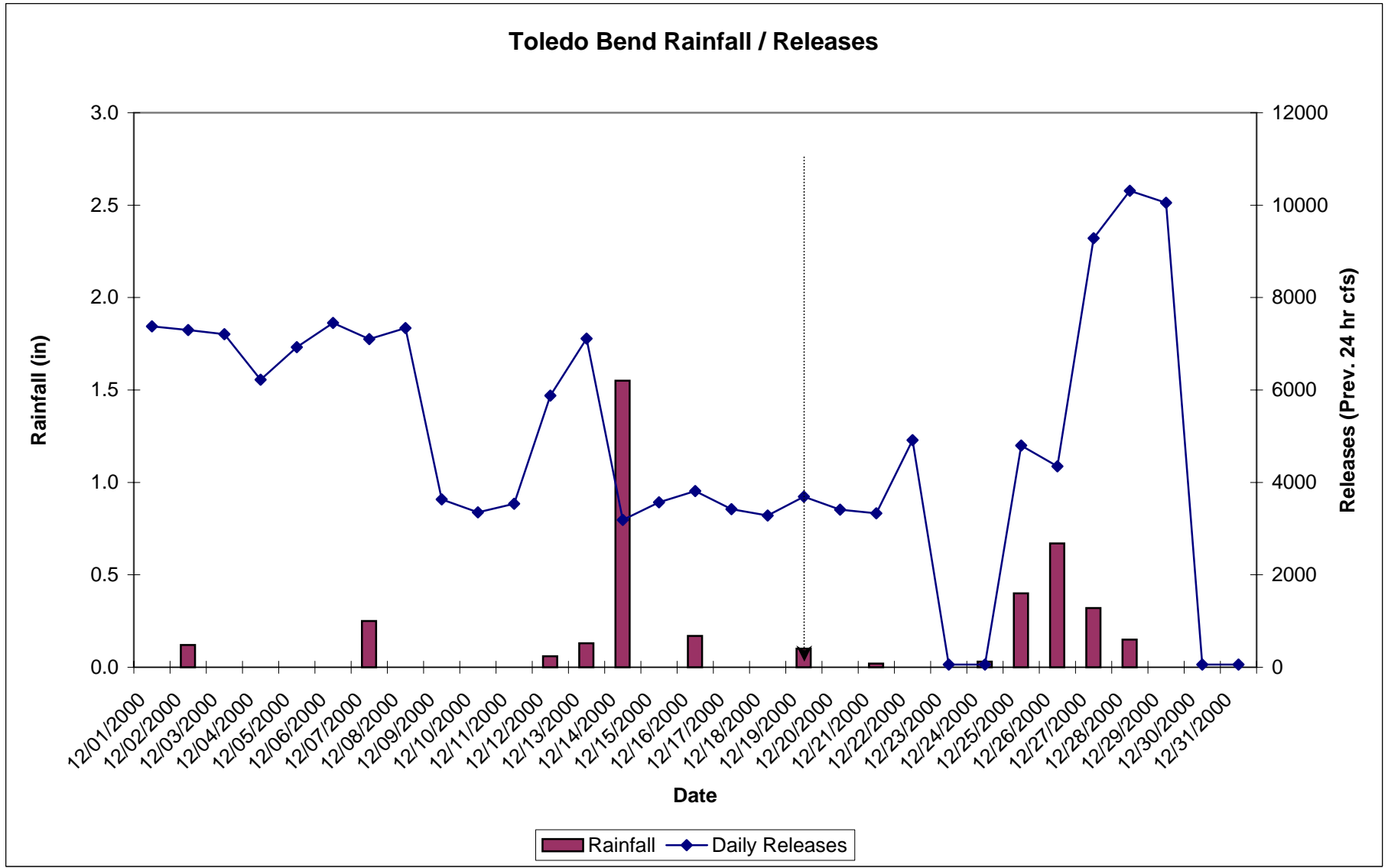
FZ: Frozen

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

Toledo Bend Sampled on 12/19/2000

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Burkeville Weather and River Data

December 2000

Date	Rainfall	Gauge Height	GH - FS	Flow
12/01/2000	*	19.74	(21.26)	4975
12/02/2000	*	19.72	(21.28)	4954
12/03/2000	*	19.42	(21.58)	4655
12/04/2000	*	19.44	(21.56)	4675
12/05/2000	*	18.31	(22.69)	3621
12/06/2000	*	19.27	(21.73)	4509
12/07/2000	*	19.13	(21.87)	4374
12/08/2000	*	19.00	(22.00)	4250
12/09/2000	*	18.87	(22.13)	4122
12/10/2000	*	16.38	(24.62)	2071
12/11/2000	*	16.55	(24.45)	2198
12/12/2000	*	16.54	(24.46)	2190
12/13/2000	*	19.07	(21.93)	4316
12/14/2000	*	19.40	(21.60)	4636
12/15/2000	*	14.44	(26.56)	882
12/16/2000	*	16.42	(24.58)	2101
12/17/2000	*	16.81	(24.19)	2398
12/18/2000	*	16.50	(24.50)	2160
12/19/2000	*	16.22	(24.78)	1955
12/20/2000	*	15.94	(25.06)	1760
12/21/2000	*	16.07	(24.93)	1849
12/22/2000	*	16.13	(24.87)	1891
12/23/2000	*	16.75	(24.25)	2351
12/24/2000	*	12.37	(28.63)	151
12/25/2000	*	12.23	(28.77)	123
12/26/2000	*	16.93	(24.07)	2494
12/27/2000	*	OUT	OUT	OUT
12/28/2000	*	OUT	OUT	OUT
12/29/2000	*	20.99	(20.01)	6311
12/30/2000	*	20.67	(20.33)	5956
12/31/2000	*	13.19	(27.81)	373
<b>Avg or Tot</b>		17.33	(23.67)	3045

	Tot	Avg	Avg	Avg
Units	Inches	Feet	Feet	cfs

FS: Flood Stage = 41 feet

TH: Gage height too high to calculate flow

NR: No Reading

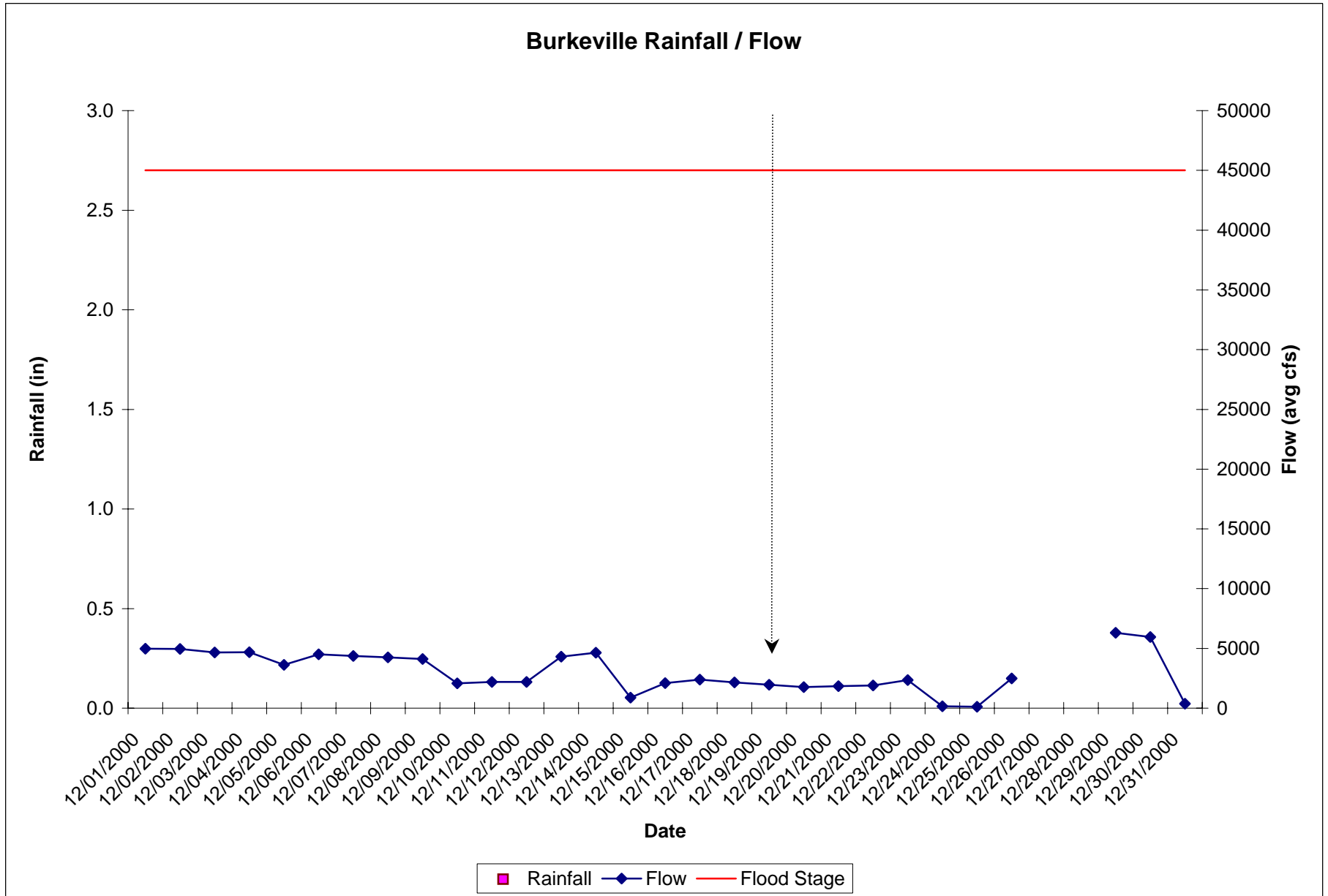
OUT: Gage Out

Lower Sabine Basin Sampled on 12/19/2000

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

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



Flood stage flow of 45,000 cfs calculated from flood stage gage height, 41 ft msl.

Rainfall readings not presented

# SABINE RIVER AUTHORITY OF TEXAS

## Bon Wier Weather and River Data

December 2000

<b>Date</b>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
12/01/2000	OUT	OUT	OUT	OUT
12/02/2000	OUT	OUT	OUT	OUT
12/03/2000	OUT	OUT	OUT	OUT
12/04/2000	OUT	OUT	OUT	OUT
12/05/2000	OUT	OUT	OUT	OUT
12/06/2000	OUT	OUT	OUT	OUT
12/07/2000	OUT	OUT	OUT	OUT
12/08/2000	OUT	OUT	OUT	OUT
12/09/2000	OUT	OUT	OUT	OUT
12/10/2000	OUT	OUT	OUT	OUT
12/11/2000	OUT	OUT	OUT	OUT
12/12/2000	17.49	(12.51)	3923	OUT
12/13/2000	17.51	(12.49)	3942	0.00
12/14/2000	20.08	(9.92)	6741	0.50
12/15/2000	20.28	(9.72)	6987	0.00
12/16/2000	17.38	(12.62)	3819	0.04
12/17/2000	18.25	(11.75)	4679	0.00
12/18/2000	17.92	(12.08)	4344	0.00
12/19/2000	17.66	(12.34)	4088	0.16
12/20/2000	17.64	(12.36)	4068	0.00
12/21/2000	17.50	(12.50)	3933	0.03
12/22/2000	17.39	(12.61)	3828	0.00
12/23/2000	18.66	(11.34)	5112	0.00
12/24/2000	16.59	(13.41)	3107	0.00
12/25/2000	14.18	(15.82)	1355	0.15
12/26/2000	15.50	(14.50)	2235	0.06
12/27/2000	18.61	(11.39)	5058	0.77
12/28/2000	20.51	(9.49)	7275	0.08
12/29/2000	23.27	(6.73)	11125	0.00
12/30/2000	23.16	(6.84)	10960	0.00
12/31/2000	18.96	(11.04)	5439	0.00
<b>Avg or Tot</b>	18.43	(11.57)	5101	1.79

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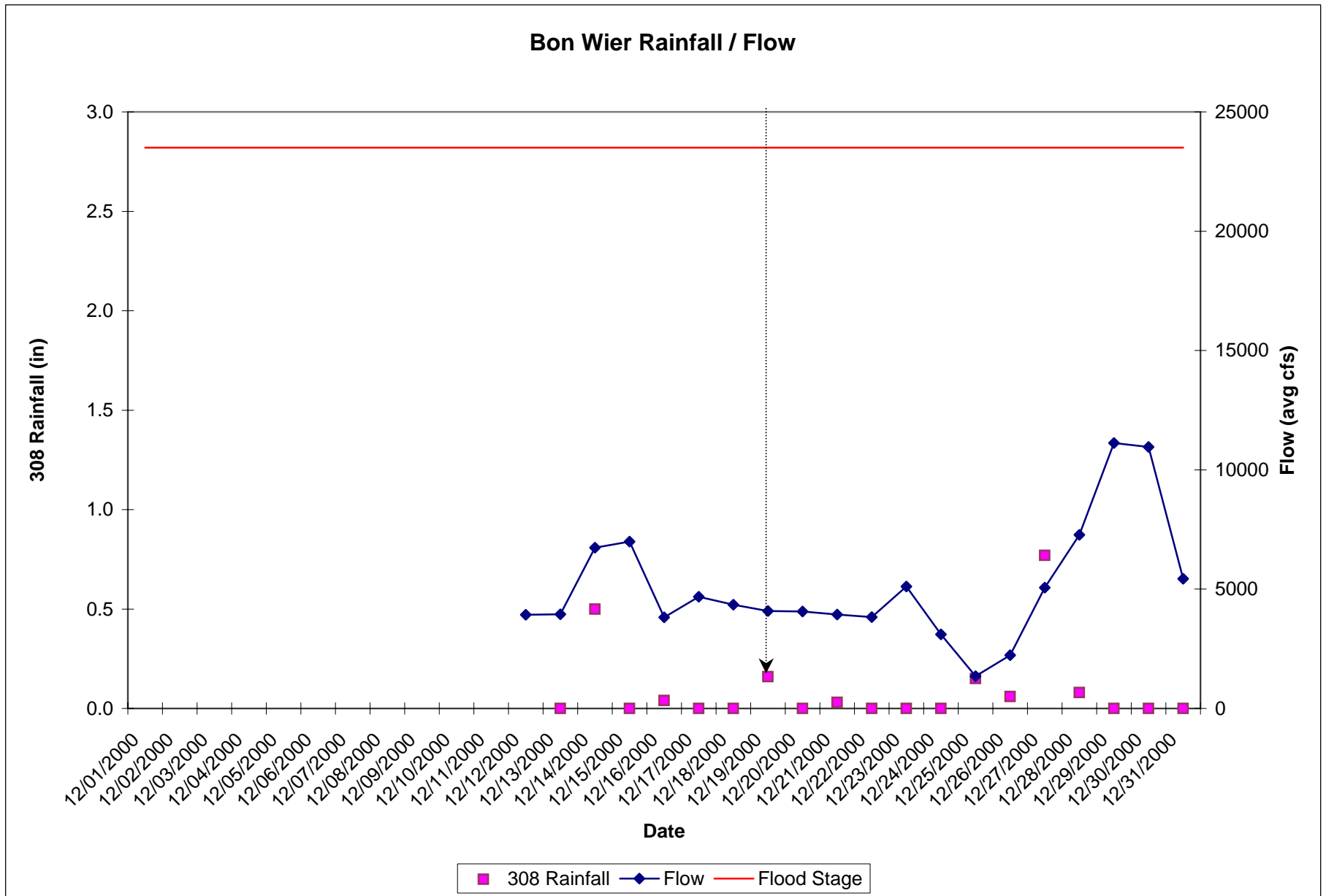
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 12/19/2000

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



Lower Sabine Basin sampled on 12/19/2000

Flood stage flow of 23,500 cfs calculated from flood stage gage height, 30 ft msl.

# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

December 2000

<b>Date</b>	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow cfs</i>	<i>Flow acft</i>	<i>Flow avg</i>	<i>309 Rainfall</i>
12/01/2000	23.00	(1.00)	10550	20926	10550	0.02
12/02/2000	23.07	(0.93)	10914	21648	10732	0.01
12/03/2000	23.07	(0.93)	10914	21648	10793	0.00
12/04/2000	23.01	(0.99)	10602	21029	10745	0.00
12/05/2000	22.85	(1.15)	10016	19866	10599	0.01
12/06/2000	22.87	(1.13)	10085	20003	10514	0.00
12/07/2000	22.72	(1.28)	9570	18982	10379	0.00
12/08/2000	22.58	(1.42)	9107	18063	10220	0.00
12/09/2000	22.58	(1.42)	9107	18063	10096	0.00
12/10/2000	22.50	(1.50)	8850	17554	9972	0.00
12/11/2000	22.58	(1.42)	9107	18063	9893	0.00
12/12/2000	22.19	(1.81)	8058	15983	9740	0.00
12/13/2000	21.48	(2.52)	6668	13226	9504	0.00
12/14/2000	21.17	(2.83)	6192	12282	9267	0.00
12/15/2000	21.39	(2.61)	6527	12946	9084	0.00
12/16/2000	22.03	(1.97)	7671	15215	8996	0.00
12/17/2000	22.03	(1.97)	7671	15215	8918	0.00
12/18/2000	21.65	(2.35)	6962	13809	8810	0.00
<b>12/19/2000</b>	<b>21.35</b>	<b>(2.65)</b>	<b>6466</b>	<b>12825</b>	<b>8686</b>	<b>0.00</b>
12/20/2000	21.10	(2.90)	6087	12073	8556	0.00
12/21/2000	20.84	(3.16)	5731	11367	8422	0.00
12/22/2000	20.65	(3.35)	5488	10885	8288	0.00
12/23/2000	20.47	(3.53)	5256	10425	8156	0.00
12/24/2000	20.68	(3.32)	5526	10961	8047	0.00
12/25/2000	20.71	(3.29)	5564	11036	7948	0.00
12/26/2000	19.08	(4.92)	3675	7289	7783	0.00
12/27/2000	17.62	(6.38)	2685	5326	7594	0.00
12/28/2000	20.00	(4.00)	4600	9124	7487	0.01
12/29/2000	21.27	(2.73)	6343	12581	7448	0.00
12/30/2000	22.09	(1.91)	7815	15501	7460	0.00
12/31/2000	22.76	(1.24)	9706	19252	7533	0.00
<b>Avg or Tot</b>	<b>21.66</b>	<b>(2.34)</b>	<b>7533</b>	<b>463166</b>		<b>0.05</b>

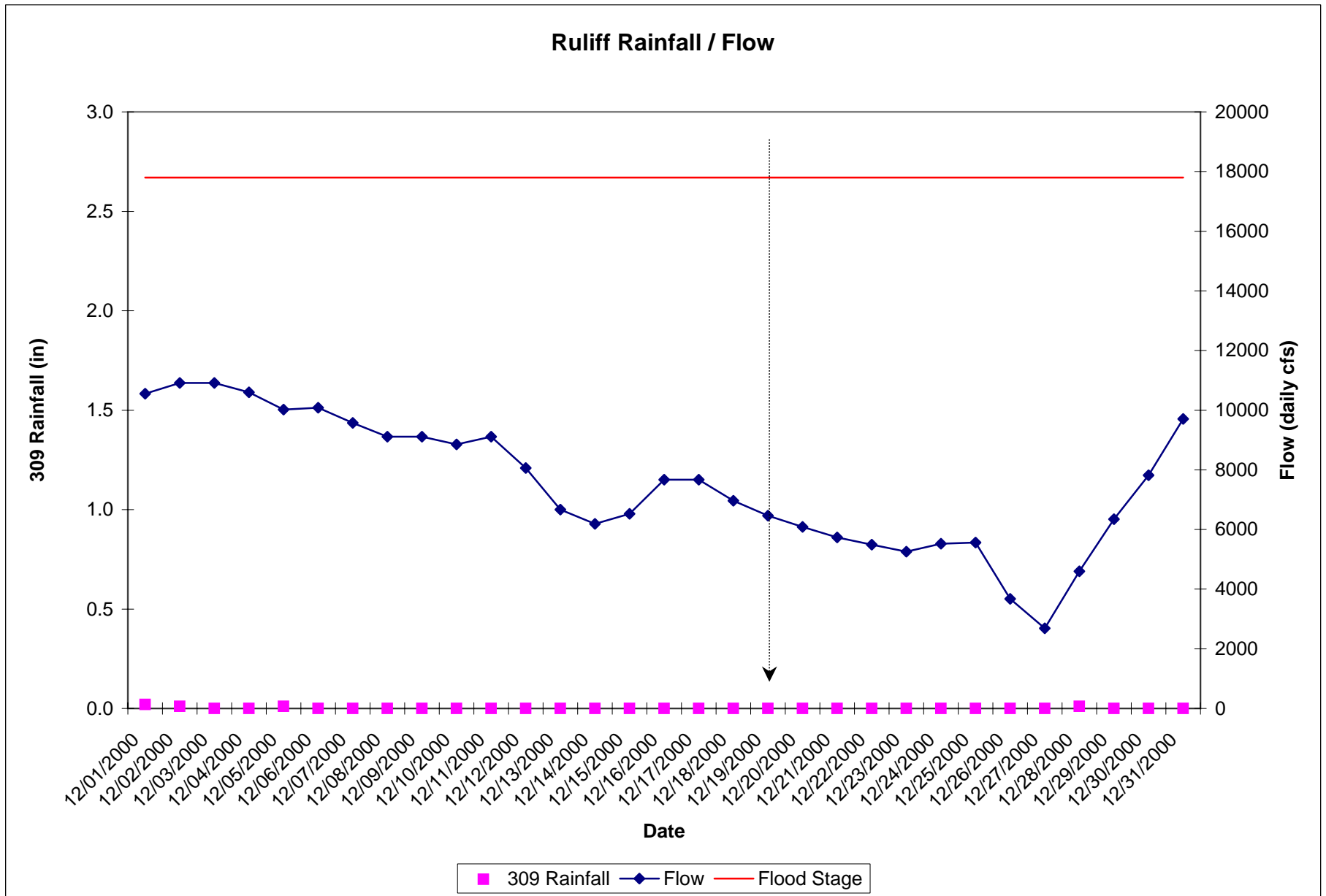
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
-------	-------------	-------------	------------	--------------	---------------

FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 12/19/2000

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



Lower Sabine Basin sampled on 12/19/2000

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

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# *Current WQMP Stations*

## *Tidal Sabine Basin*

<i>SW</i>	<i>Segment</i>	<i>Station</i>	<i>Location</i>
1.05	0501	15653 (ICW1)	INTERCOASTAL WATERWAY AT PERRY RIDGE
1.03	0508	15107 (AB7)	ADAMS BAYOU AT FM 3247
1.03	0508	10441 (AB2)	ADAMS BAYOU AT FM 1006
1.02	0511	13781 (CB4)	COW BAYOU AT FM 1442(NORTH CROSSING)
1.02	0511	10449 (CB1)	COW BAYOU AT ROUND BUNCH RD
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	10391 (SRT1)	SABINE RIVER AT CHANNEL CAN 3

# SABINE RIVER AUTHORITY OF TEXAS

Tidal Report  
December 2000

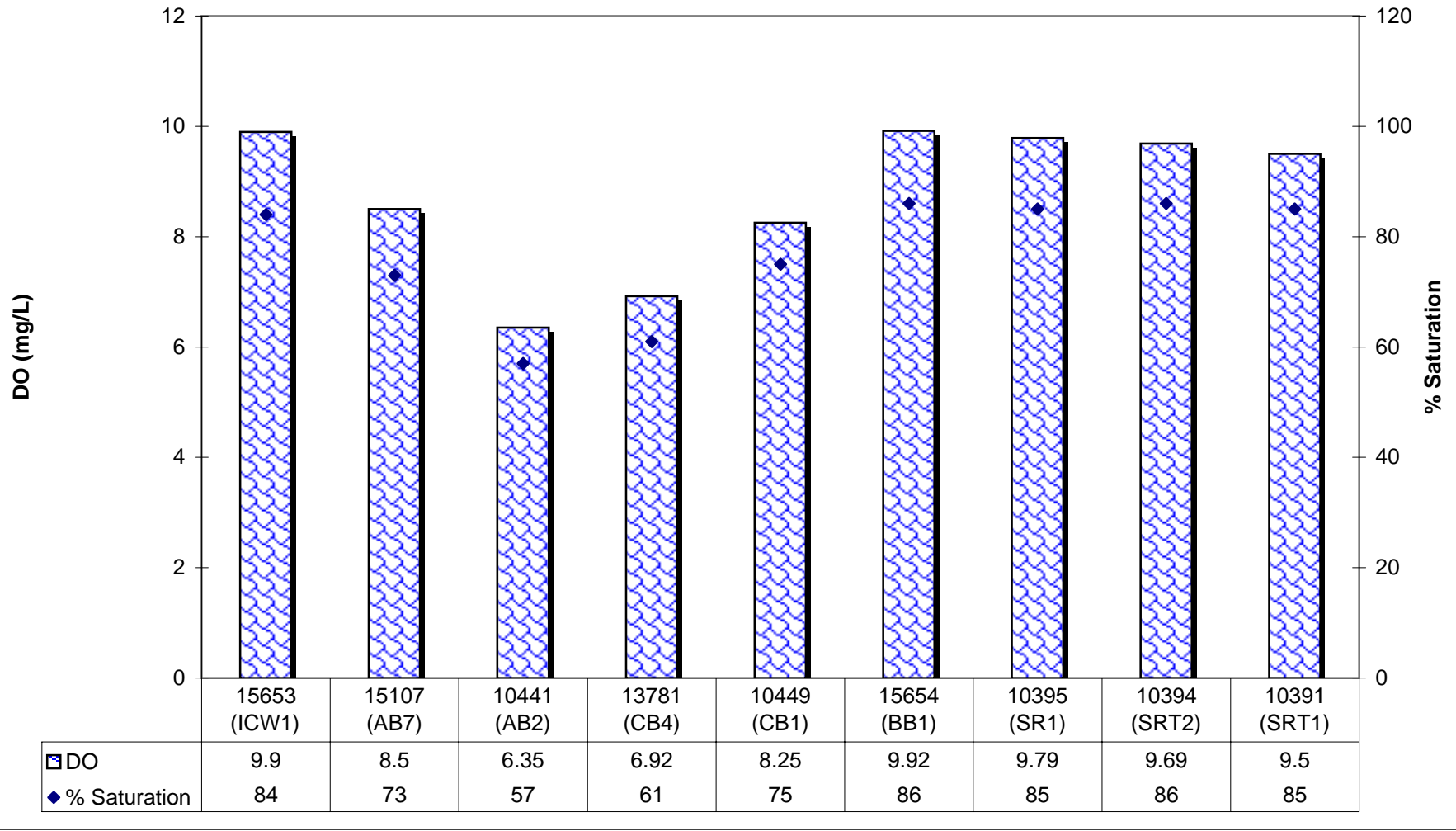
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
12/20/00 10:25 AM	1.05	15653 (ICW1)	7.04	7.26	9.9	84	8023	4	0.28	31.8	38	*	*	1.41	0.09	< 0.05	10	*	*	101	325
12/14/00 10:05 AM	1.03	15107 (AB7)	8.92	6.7	8.5	73	202	< 1	0.37	51.7	> 1200	> 1200	*	*	0.04	0.1	15	*	*	27.5	13.8
12/14/00 12:00 PM	1.03	10441 (AB2)	10.9	6.77	6.35	57	1122	< 1	0.39	19.1	> 1200	> 1200	*	1.09	0.26	0.5	10	*	*	286	41.2
12/14/00 10:23 AM	1.02	13781 (CB4)	10.1	6.44	6.92	61	131	< 1	0.32	64.2	1020	1120	*	< 0.05	0.04	< 0.05	18	*	*	15.5	9.6
12/14/00 10:45 AM	1.02	10449 (CB1)	10.9	6.52	8.25	75	2125	1	0.32	35.2	> 1200	> 1200	*	< 0.05	0.16	0.19	11	*	*	284	82.4
12/20/00 11:05 AM	1.01	15654 (BB1)	7.48	7.33	9.92	86	9908	6	0.21	58.7	27	*	*	1.82	< 0.02	< 0.05	10	*	*	129	421
12/20/00 9:25 AM	1.00	10395 (SR1)	9.19	7.02	9.79	85	186	*	0.5	13.9	56	*	*	< 0.05	0.08	< 0.05	7	*	*	15.6	23.2
12/20/00 9:50 AM	1.00	10394 (SRT2)	9.88	6.97	9.69	86	188	< 1	0.4	13.8	*	*	*	< 0.05	0.08	< 0.05	6	*	*	18	19.8
12/20/00 11:20 AM	1.00	10391 (SRT1)	9.89	7.33	9.5	85	2161	1	0.53	15.3	38	*	*	< 0.05	0.12	< 0.05	7	*	*	91.4	102

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

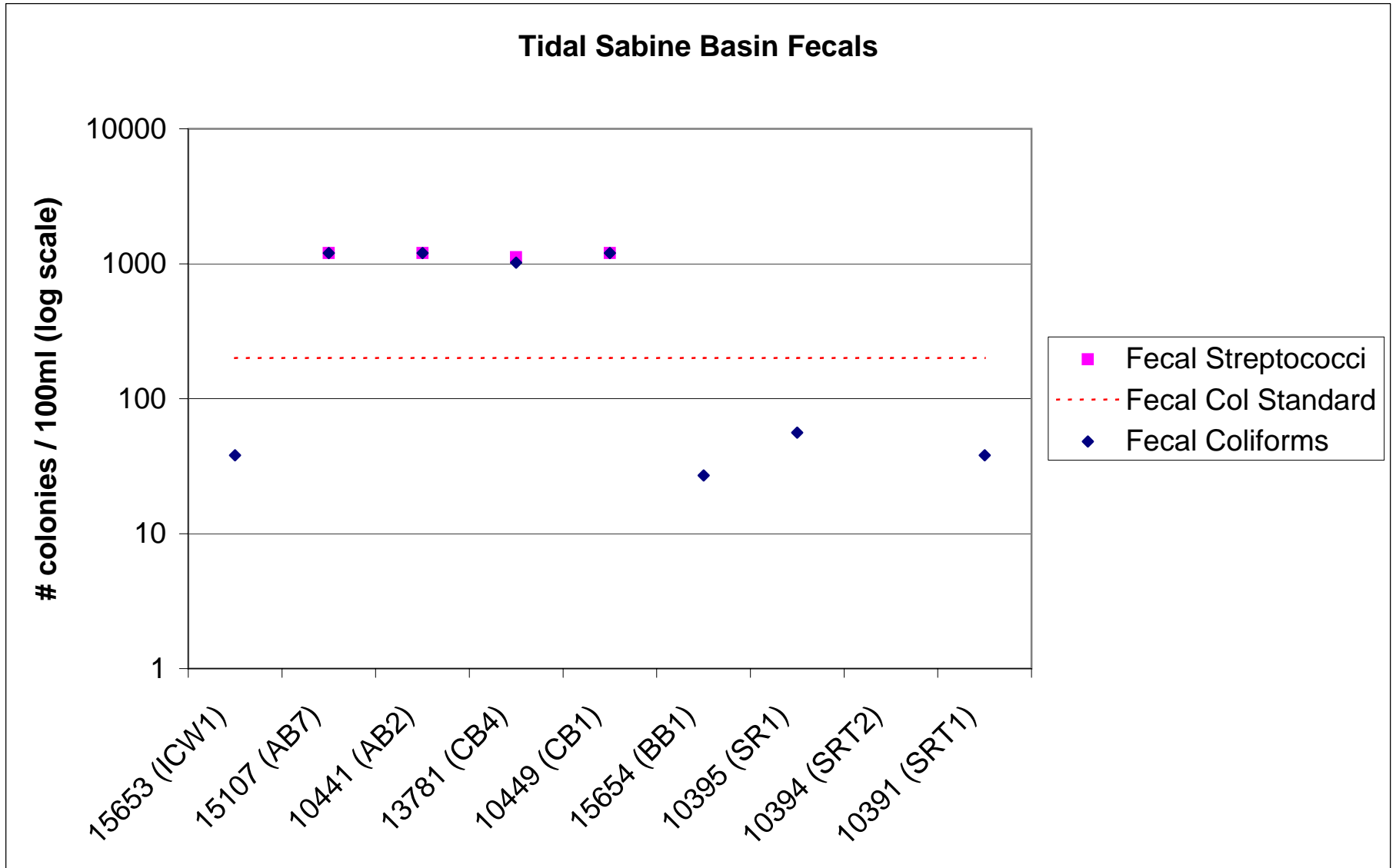
December 2000

## Tidal Sabine Basin DO / % Saturation



# SABINE RIVER AUTHORITY OF TEXAS

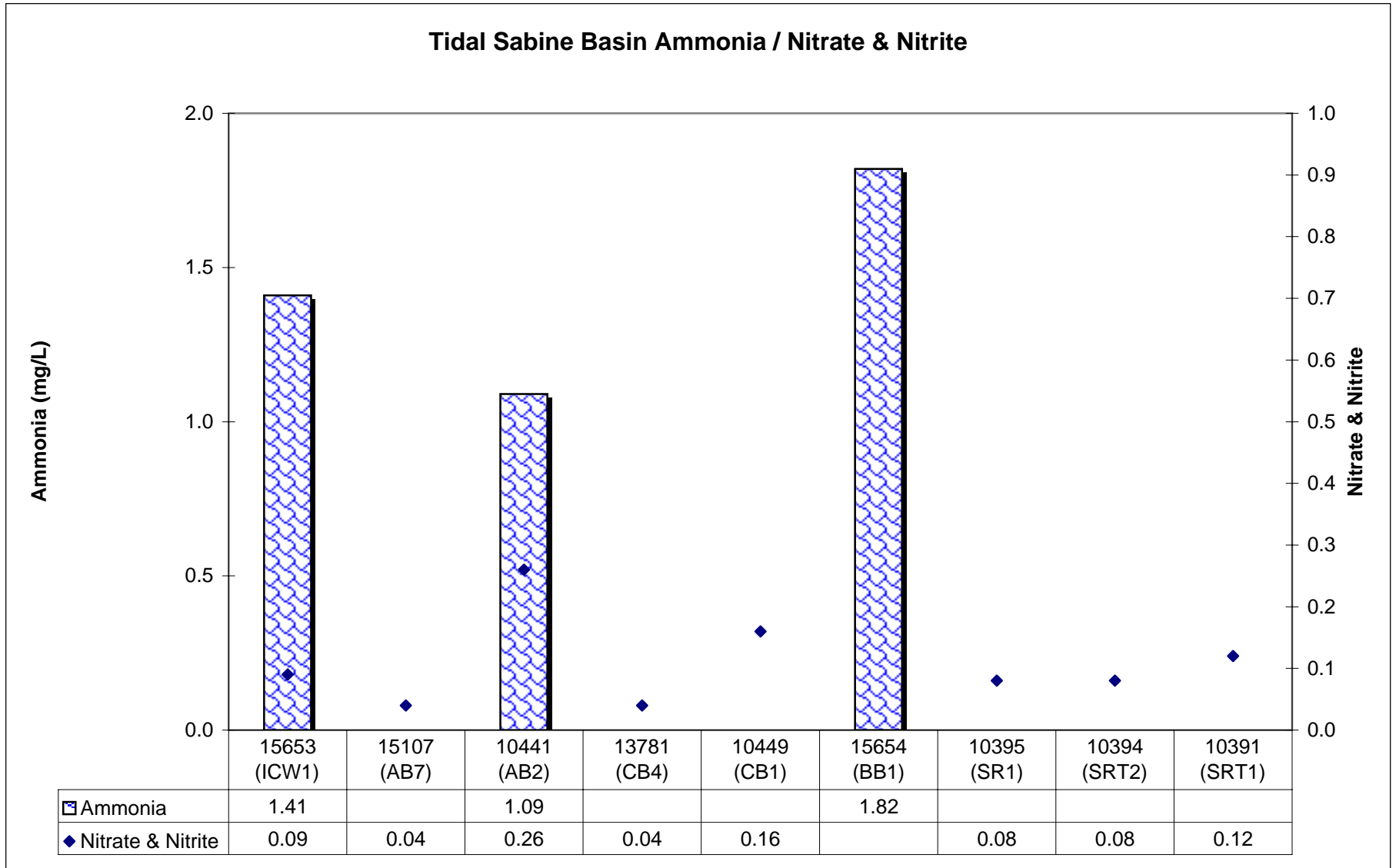
December 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



Stations without values were below detection limit or not sampled on this run (see page 40).

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Profiles

December 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094	Salinity ppt 00480
12/20/00 10:25 AM	1.05	15653 (ICW1)	0.3	7.04	7.26	9.9	84	8023	4
			5.3	7.05	7.14	10.1	85	8033	4
12/14/00 10:05 AM	1.03	15107 (AB7)	0.3	8.92	6.7	8.5	73	202	< 1
			2.6	8.9	6.86	8.49	73	195	< 1
12/14/00 12:00 PM	1.03	10441 (AB2)	0.3	10.9	6.77	6.35	57	1122	< 1
			3	11.5	6.63	7.49	70	2938	2
			3.7	12.2	6.55	8.46	79	4373	2
12/14/00 10:23 AM	1.02	13781 (CB4)	0.3	10.1	6.44	6.92	61	131	< 1
			2.5	10.1	6.61	7.02	62	132	< 1
12/14/00 10:45 AM	1.02	10449 (CB1)	0.3	10.9	6.52	8.25	75	2125	1
			3	10.9	6.53	8.29	75	2106	1
			6.2	11.1	6.47	8.37	77	2180	1
12/20/00 9:50 AM	1.00	10394 (SRT2)	0.3	9.88	6.97	9.69	86	188	< 1
			5	9.83	6.96	9.61	84	188	< 1
			8.7	9.84	6.91	9.76	86	188	< 1
12/20/00 11:20 AM	1.00	10391 (SRT1)	0.3	9.89	7.33	9.5	85	2161	1
			3	9.81	7.45	9.37	84	3785	2
			5	10.3	7.52	9.05	84	11000	6
			7	11.1	7.51	8.59	84	19570	11

# SABINE RIVER AUTHORITY OF TEXAS

## Orange Weather and River Data

December 2000

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
12/01/2000	0.00	2.30	(1.70)	64	42	55	0.00
12/02/2000	0.06	1.54	(2.46)	68	42	42	0.06
12/03/2000	0.00	0.78	(3.22)	55	37	37	0.00
12/04/2000	0.00	1.55	(2.45)	48	37	40	0.00
12/05/2000	0.00	1.58	(2.42)	57	34	34	0.00
12/06/2000	0.00	1.79	(2.21)	60	33	44	0.00
12/07/2000	0.31	1.11	(2.89)	50	39	39	0.68
12/08/2000	0.00	1.75	(2.25)	56	33	34	0.00
12/09/2000	0.00	1.56	(2.44)	67	34	39	0.00
12/10/2000	0.00	1.85	(2.15)	67	34	48	0.00
12/11/2000	0.00	2.15	(1.85)	74	48	54	0.00
12/12/2000	0.01	1.19	(2.81)	73	33	33	0.02
12/13/2000	0.00	2.02	(1.98)	46	33	45	0.00
12/14/2000	0.08	1.99	(2.01)	47	37	38	0.90
12/15/2000	0.00	1.66	(2.34)	46	37	40	0.00
12/16/2000	0.01	2.20	(1.80)	68	39	65	0.04
12/17/2000	0.00	(0.25)	(4.25)	70	32	32	0.00
12/18/2000	0.00	1.21	(2.79)	52	30	44	0.00
12/19/2000	0.11	(0.13)	(4.13)	52	35	36	0.12
12/20/2000	0.00	0.28	(3.72)	48	27	31	0.00
12/21/2000	0.07	1.34	(2.66)	54	32	47	0.11
12/22/2000	0.00	0.66	(3.34)	53	28	28	0.00
12/23/2000	0.00	1.58	(2.42)	54	29	39	0.00
12/24/2000	0.00	1.78	(2.22)	55	39	47	0.00
12/25/2000	0.02	1.67	(2.33)	52	46	46	0.01
12/26/2000	0.00	2.11	(1.89)	53	44	45	0.00
12/27/2000	0.30	1.99	(2.01)	67	40	40	0.30
12/28/2000	0.01	1.09	(2.91)	42	35	35	0.05
12/29/2000	0.00	0.42	(3.58)	43	35	39	0.00
12/30/2000	0.00	0.21	(3.79)	53	27	28	0.00
12/31/2000	0.00	0.63	(3.37)	48	28	33	0.00
<b>Avg or Tot</b>	0.98	1.34	(2.66)	56	35	41	2.29

Units	Tot Inches	Avg Feet	Avg Feet	Avg Deg F	Avg Deg F	Avg Deg F	Tot Inches
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Appx. 8 am

310 Rainfall: Old Navy Base, City of Orange

293: SRA Gulf Coast Division Office, Northern Orange County

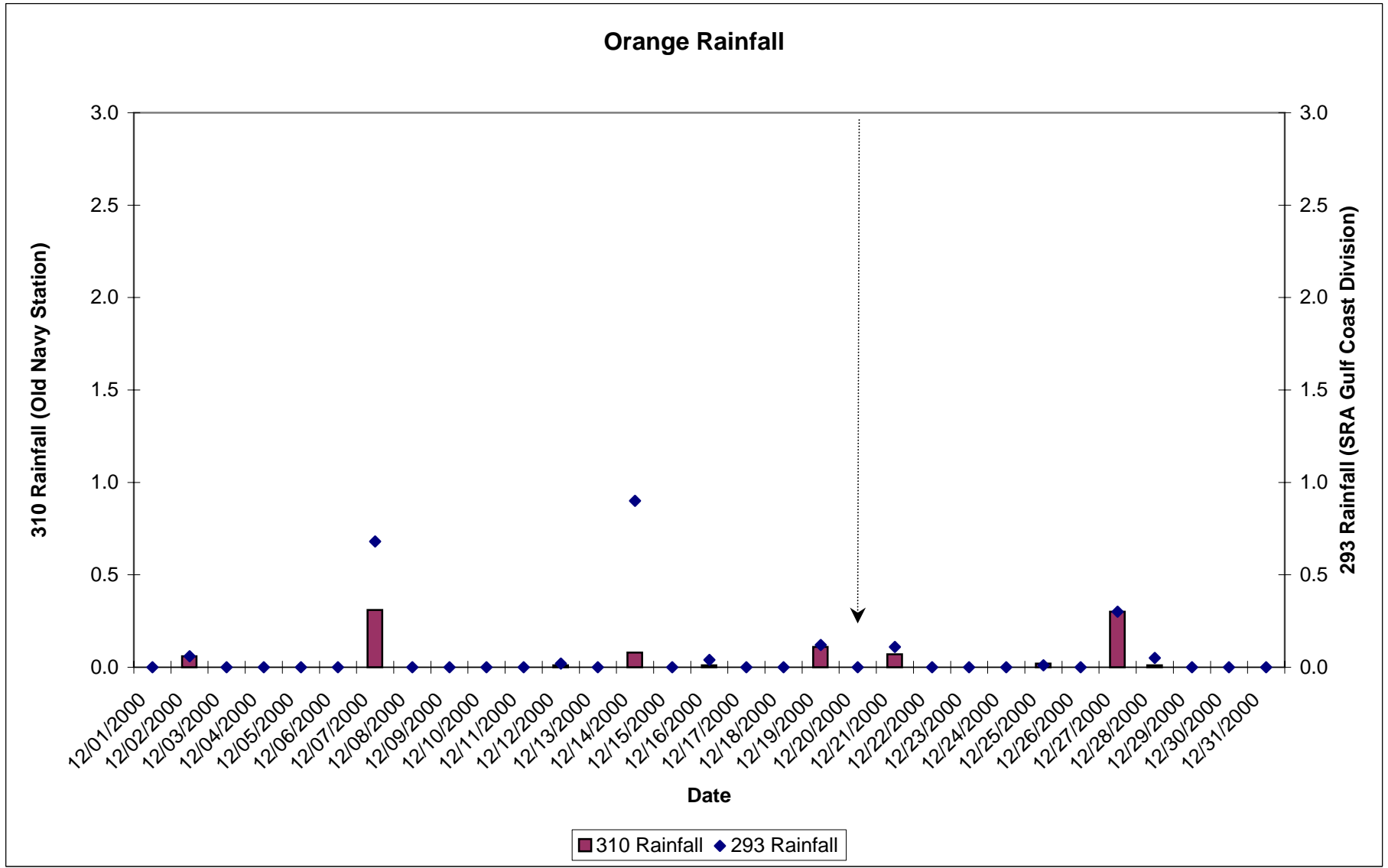
FS: Flood Stage = 4 Feet

OUT: Gauge Out

Tidal Sabine Basin Sampled on 12/20/2000

# SABINE RIVER AUTHORITY OF TEXAS

December 2000



Tidal Sabine Basin Sampled on 12/20/2000