
SABINE RIVER AUTHORITY OF TEXAS

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

This is the Sabine River Authority Water Quality Summary for June 2000. Water quality sampling was performed June 13 through June 15. Daytime high air temperatures during the seven days prior to the sampling dates were in the 80's in the Upper Basin and in the 80's and 90's in the Lower Basin. Nighttime lows in the Upper Basin ranged from 59 to 72 degrees. Low temperatures in the Lower Basin were in the 60's and 70's. Several recent rainfall events were recorded prior to and during the sample run.

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

For the June sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. LF2 on Lake Fork Reservoir was the only site that appeared to be thermally stratified. However, all of the reservoir sites had a significant dissolved oxygen gradient with low D.O. near the bottom and gradual increase toward the surface. Several sites had over 100% saturation of oxygen, indicating high algal activity. LT23C and LT23D were 141% and 131% saturated respectively. Ammonia and orthophosphates exceeded nutrient screening criteria at LF7. SR21 on the river main stem had elevated conductivity, ammonia, and chloride. Elevated conductivity and chloride values at this site are usually caused by rainwater runoff from natural salt deposits in the Grand Saline Creek watershed upstream.

SABINE RIVER AUTHORITY OF TEXAS: WATER QUALITY MONITORING REPORT

LOWER SABINE BASIN INCLUDING TOLEDO BEND TO MORGAN BLUFF

June WQM sampling results were indicative of high water quality at most sites. Toledo Bend Reservoir was near pool level during this sampling event. Profiles taken at deep-water stations on the reservoir exhibited thermal stratification with near-anoxic conditions near the bottom. Stations TB6N, TB6I, TB6M, and TB6L had oxygen readings below stream standards. These stations are predominantly shallow sites with large amounts of both emergent and floating aquatic vegetation. Station BA4 had higher sulfate, nitrite/nitrate levels, and conductivity readings compared to other stations. This station 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. All values measured were within stream standards criteria. Salinity was detected at all tidal stations. The greatest salinity measured occurred at SRT2 with a reading of 12 ppt at 9.2 meters depth. A salt-water wedge was also detected at tidal stations.

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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Water Quality Monitoring Program

June 2000

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Appendix

2000 SRA WQMP Stations, by Reach

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Current WQMP Stations

Upper Sabine Basin

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
7.00	0507 10440 (LT23C)	LAKE TAWAKONI AT COWLEECH FORK
7.00	0507 10435 (LT23D)	LAKE TAWAKONI IN KITSEE INLET
7.00	0507 10434 (LT23A)	LAKE TAWAKONI IN MAIN LAKE
6.12	0512 16691 (LF7)	LAKE FORK RESERVOIR 3.7KM UPSTREAM OF FM2946 AT BOUY #63
6.12	0512 10461 (LF3)	LAKE FORK RES AT CANEY CREEK ARM
6.12	0512 10462 (LF4)	LAKE FORK RES AT LAKE FORK CREEK ARM
6.12	0512 10458 (LF2)	LAKE FORK RES NEAR DAM
6.10	0515 10469 (LF20)	LAKE FORK CREEK AT US 80
6.02	0514 10467 (BS18)	BIG SANDY CREEK AT US 80
6.00	0506 10430 (SR21)	SABINE RIVER AT US 69
6.00	0506 10429 (SR19)	SABINE RIVER AT FM 14
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

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Upper Sabine Basin Report

June 2000

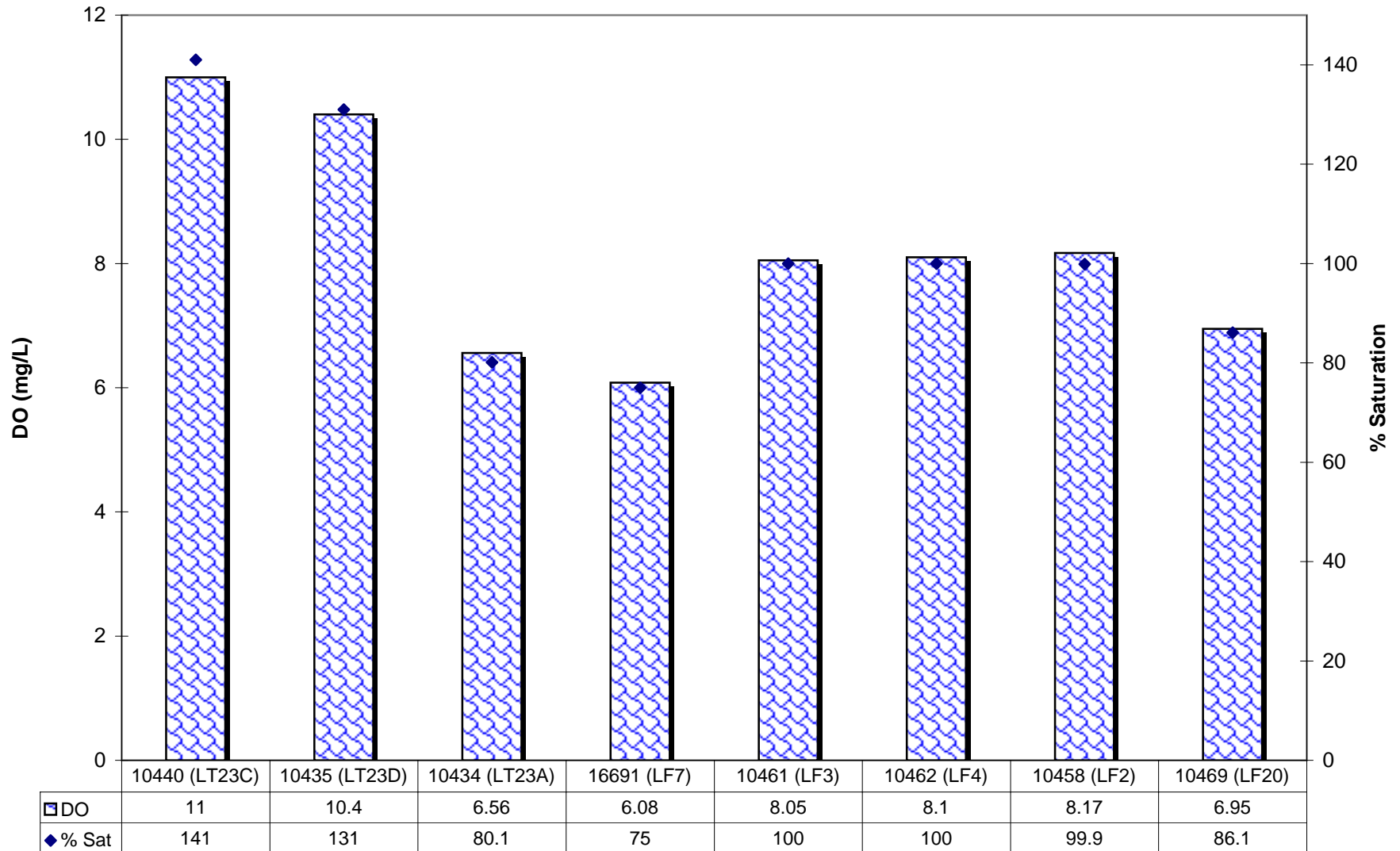
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho-Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
6/13/00 1:30 PM	7.00	10440 (LT23C)	28.3	8.74	11	141	194	*	0.45	14.2	3	*	*	0.017	0.03	< 0.02	4	*	*	5.3	10.7
6/13/00 12:37 PM	7.00	10435 (LT23D)	27.5	8.38	10.4	131	211	*	0.28	28.3	20	*	*	0.054	< 0.02	< 0.02	6	*	*	6.1	11.1
6/13/00 11:32 AM	7.00	10434 (LT23A)	25.5	7.41	6.56	80.1	206	*	0.97	4.15	< 2	*	*	0.017	< 0.02	< 0.02	5	*	*	5.4	11.6
6/13/00 10:30 AM	6.12	16691 (LF7)	26	6.68	6.08	75	141	*	1.19	5.75	< 2	*	*	0.132	0.03	0.21	7	*	*	10.2	17
6/13/00 9:23 AM	6.12	10461 (LF3)	26.5	7.44	8.05	100	171	*	1.19	3.47	2	*	*	0.002	< 0.02	< 0.02	7	*	*	15.4	20.5
6/13/00 9:55 AM	6.12	10462 (LF4)	26.3	7.13	8.1	100	166	*	1.25	3.33	2	*	*	0.006	< 0.02	< 0.02	6	*	*	14.1	21.9
6/13/00 8:40 AM	6.12	10458 (LF2)	25.6	7.21	8.17	99.9	168	*	1.61	2.14	< 2	*	*	0.005	< 0.02	< 0.02	6	*	*	14.7	21.8
6/13/00 2:58 PM	6.10	10469 (LF20)	26.3	6.45	6.95	86.1	217	*	0.32	37.5	43	*	*	0.036	0.16	< 0.02	4	*	*	26.8	25.1
6/14/00 8:11 AM	6.02	10467 (BS18)	24.8	6.26	6.69	80.7	151	*	0.66	18.4	60	*	*	0.027	< 0.05	< 0.02	6	*	*	22.7	12.7
6/13/00 2:36 PM	6.00	10430 (SR21)	26.6	6.84	6.28	78.8	3049	*	0.28	55.4	140	*	*	0.242	0.26	< 0.02	< 1	*	*	894	93.3
6/13/00 3:16 PM	6.00	10429 (SR19)	27.3	6.49	7.85	98.9	238	*	0.33	42.5	53	*	*	0.014	0.2	< 0.02	5	*	*	29.5	24.5
6/14/00 8:32 AM	5.00	10428 (SR17)	26.6	6.49	6.94	86.5	217	*	0.34	45.3	53	*	*	0.014	0.19	< 0.02	5	*	*	27.9	21.3
6/14/00 8:55 AM	5.00	10427 (SR16)	26.7	6.69	6.28	78.5	276	*	0.36	51.1	196	*	*	0.058	0.35	< 0.02	5	*	*	45.3	21.1
6/14/00 9:13 AM	5.00	10426 (SR15)	27	6.75	6.49	81.5	286	*	0.3	49.2	92	*	*	0.082	0.48	< 0.02	5	*	*	49	20.9
6/14/00 9:33 AM	5.00	10423 (SR14)	26.9	6.82	6.39	80	285	*	0.3	54.9	152	*	*	0.15	0.97	< 0.02	5	*	*	44.8	22.9
6/14/00 10:18 AM	5.00	13628 (SR11)	26.9	6.77	6.35	79.6	314	*	0.36	45.1	148	*	*	0.046	0.38	< 0.02	6	*	*	50.2	31.9
6/14/00 10:56 AM	5.00	10415 (SR10)	26.3	6.71	6.66	82.6	206	*	0.3	47.6	148	*	*	< 0.001	0.15	< 0.02	8	*	*	20.5	28.9

*: Not sampled on this run

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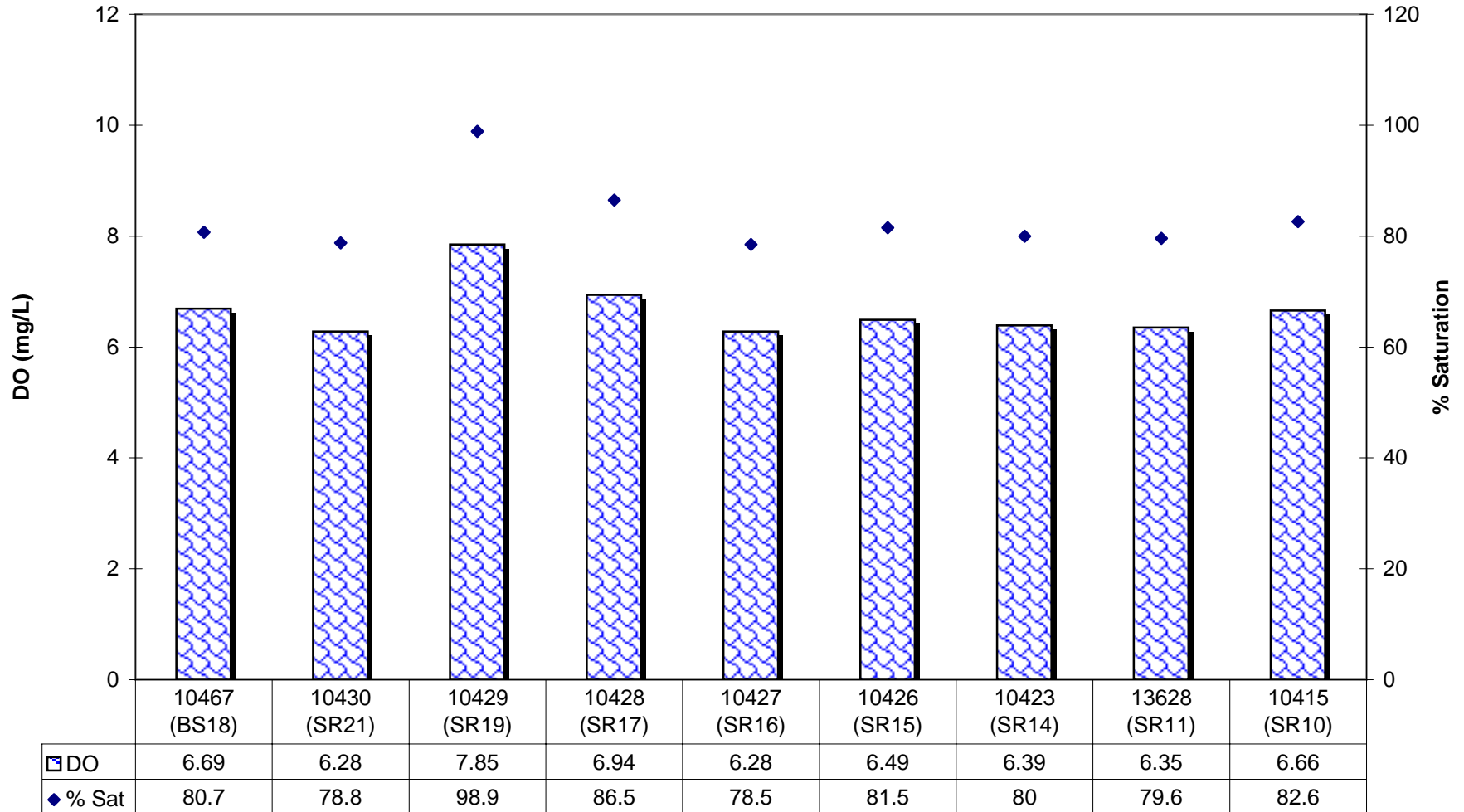
Upper Sabine Basin DO / % Saturation (1 of 2)



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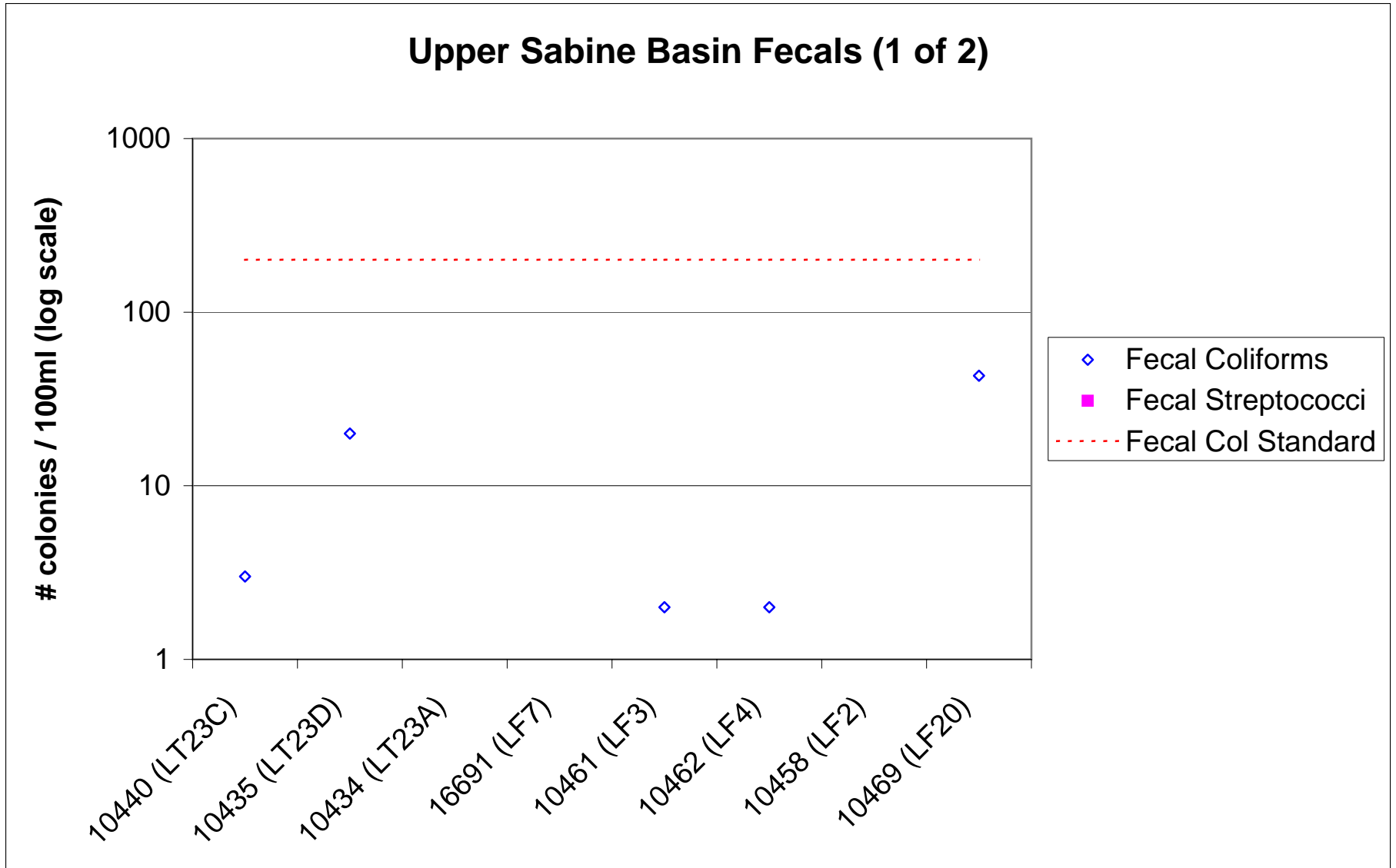
June 2000

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



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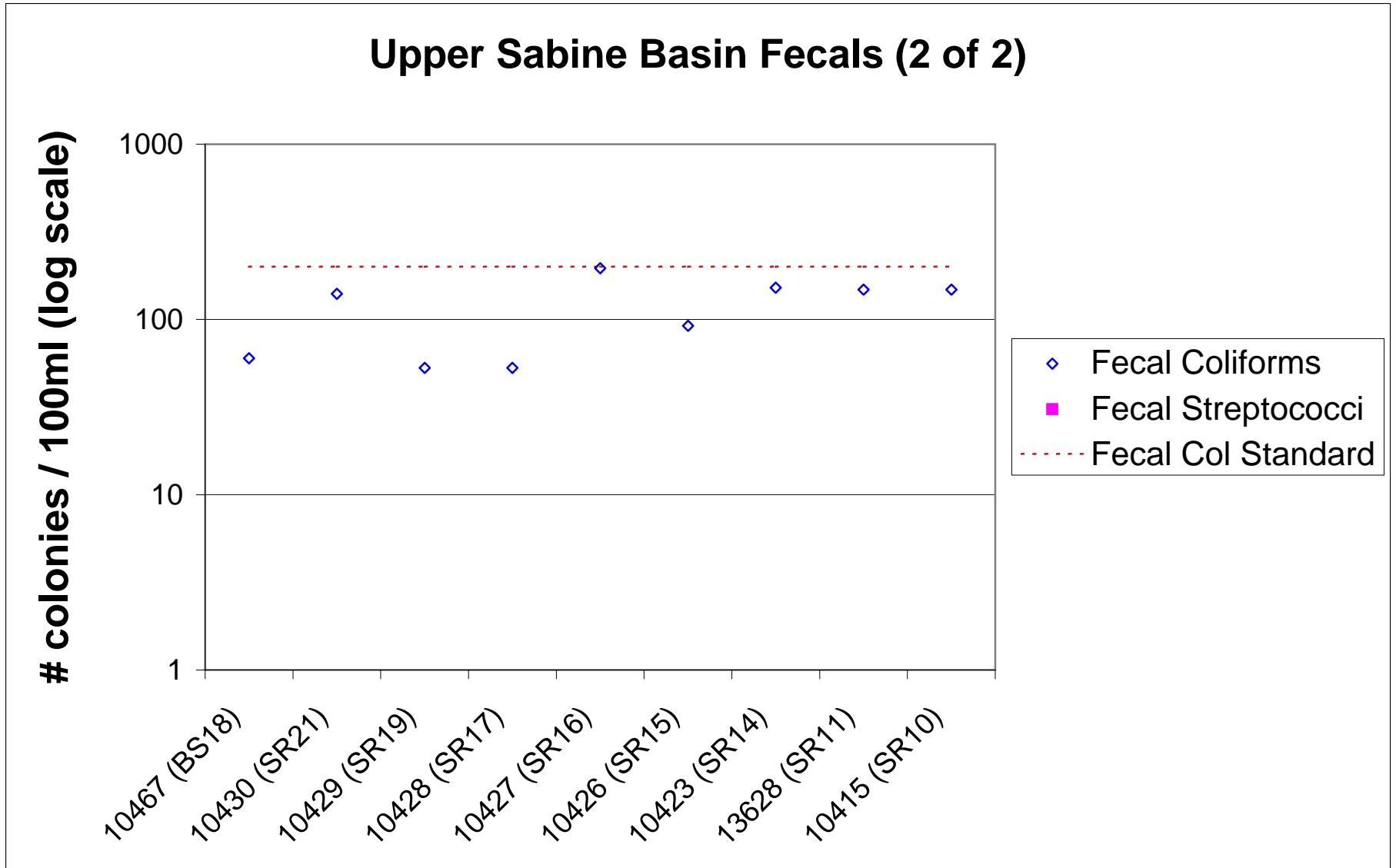
June 2000



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

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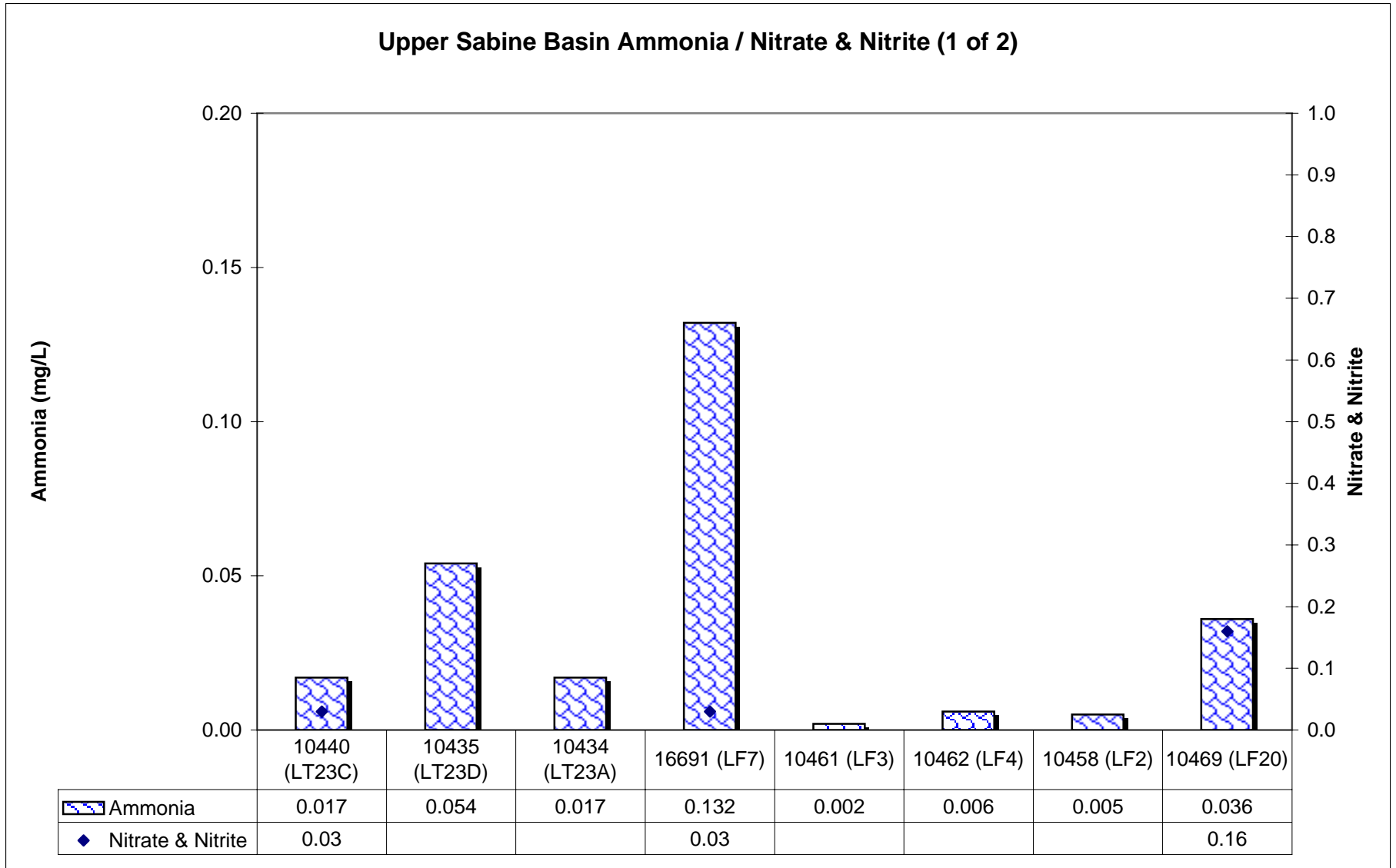
June 2000



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

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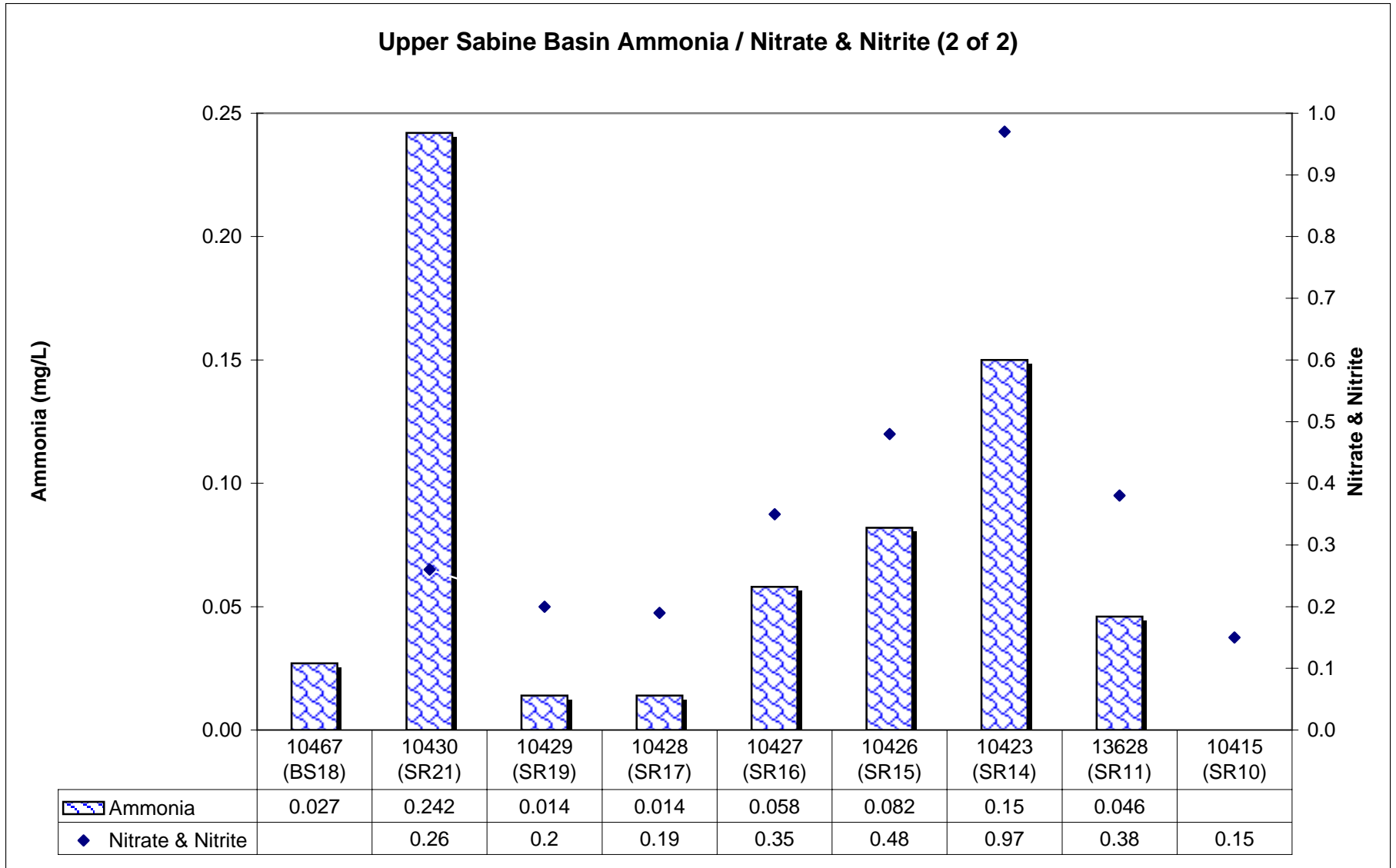
June 2000



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

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June 2000



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

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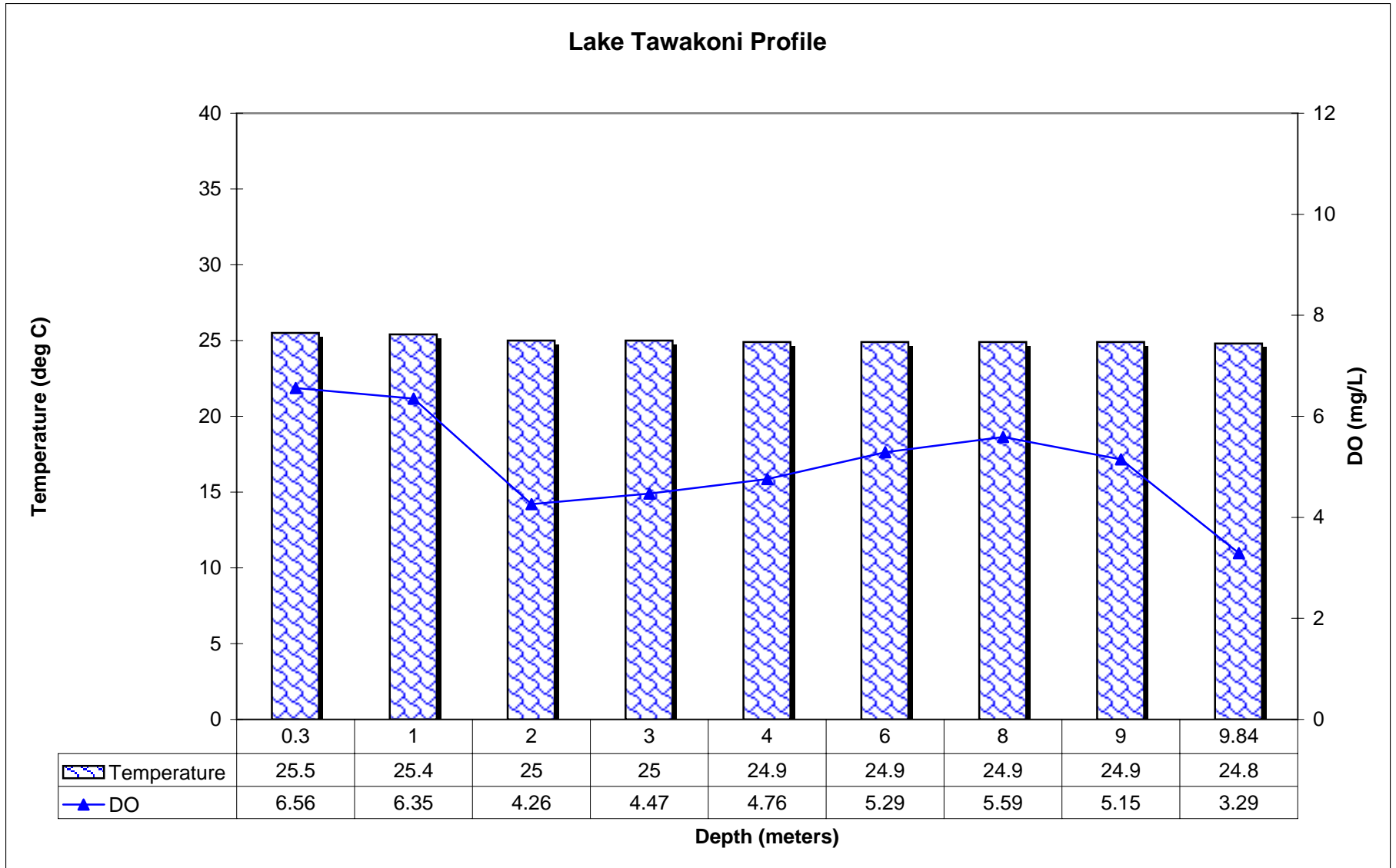
Upper Basin Profiles

June 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity μS/cm 00094
6/13/00 1:30 PM	7.00	10440 (LT23C)	0.3	28.3	8.74	11	141	194
			1	28.2	8.7	10.9	140	194
			2	28.1	8.59	10.5	136	193
			3.26	27.2	8.2	8.14	102	188
6/13/00 12:37 PM	7.00	10435 (LT23D)	0.3	27.5	8.38	10.4	131	211
			1	27.3	8.11	9.03	116	211
			2	26.7	7.53	5.95	74.3	211
			3	26.2	7.19	3.5	43.2	208
			4	25.9	7.14	3.12	38.5	208
			5	25.9	7.12	2.99	36.7	210
			6	25.9	7.11	2.97	36.6	210
7	25.9	7.07	2.9	35.7	210			
7.87	25.9	7	2.8	34.6	211			
6/13/00 11:32 AM	7.00	10434 (LT23A)	0.3	25.5	7.41	6.56	80.1	206
			1	25.4	7.35	6.35	77.7	207
			2	25	7.14	4.26	51.5	207
			3	25	7.14	4.47	54.1	207
			4	24.9	7.15	4.76	57.4	207
			6	24.9	7.15	5.29	64	207
			8	24.9	7.13	5.59	67.3	207
			9	24.9	6.97	5.15	62.3	207
			9.84	24.8	6.81	3.29	40.3	209
6/13/00 10:30 AM	6.12	16691 (LF7)	0.3	26	6.68	6.08	75	141
			1	26	6.67	6.08	74.9	141
			2	25.9	6.64	6.08	74.9	142
			3	25.9	6.63	6.09	74.9	143
			4	25.9	6.53	5.85	72.4	142
			5	25.6	6.4	4.69	59.5	134
5.7	25.4	6.31	3.98	48.3	123			
06/13/2000 9:23	6.12	10461 (LF3)	0.3	26.5	7.44	8.05	100	171
			1	26.5	7.39	8	99.4	171
			2	26.5	7.27	7.93	98.6	171
			3.06	26.4	7.06	7.39	91.7	171
			4	26.4	6.93	6.84	84.7	172
			5.02	26.3	6.84	6.33	78.5	172
			6.01	26.2	6.66	5.24	64.9	172
			7.01	26	6.61	4.64	57.2	172
			8.03	25.8	6.55	3.48	43	174
			9.05	25.5	6.49	1.75	21.3	178
			9.8	25.4	6.38	1.26	15.2	179
06/13/2000 9:55	6.12	10462 (LF4)	0.3	26.3	7.13	8.1	100	166
			1	26.3	7.08	8.08	100	166
			2	26.2	6.95	7.79	96.4	166
			3.01	26.2	6.84	7.64	94.8	167
			5	26	6.7	6.65	82.6	166
			7	26	6.7	6.65	82.6	166
			9.02	25.9	6.62	5.38	66.2	163
			10	25.8	6.56	5.35	65.7	163
			10.7	25.7	6.51	5.32	65.3	163
			06/13/2000 8:40	6.12	10458 (LF2)	0.3	25.6	7.21
1	25.5	7.12				8.13	99.4	168
2	25.5	6.92				7.84	96.2	168
3	25.3	6.81				7.31	89	168
4	25.3	6.73				6.63	80.9	168
6	25.2	6.68				5.82	70.6	168
8	25.1	6.61				5.72	69.5	168
9	25	6.44				4.07	49.3	168
10	24	6.3				1.24	14.7	169
11	22.6	6.35				0.62	7.1	169
13	20.6	6.52				0.47	5.2	171
15.6	17.2	6.74				0.43	4.4	223

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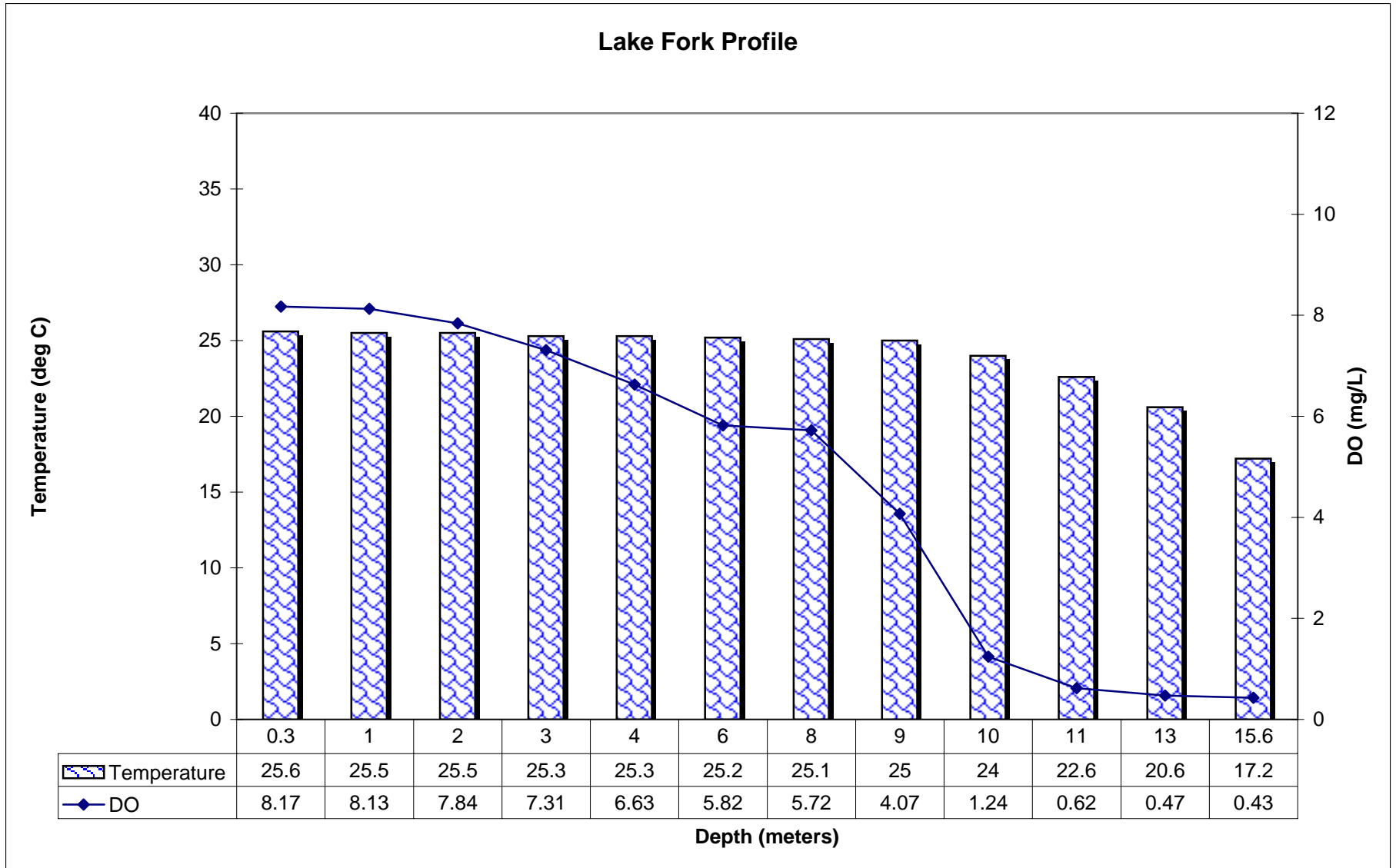
June 2000



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

SABINE RIVER AUTHORITY OF TEXAS

June 2000



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Lake Tawakoni Weather and Reservoir Data

June 2000

Date	Lake Elev	LE - TOP	Releases inst	Max Temp	Min Temp	Rainfall	Evap
06/01/2000	432.48	(5.02)	5	93	72	0.00	0.27
06/02/2000	432.47	(5.03)	5	91	71	0.00	0.29
06/03/2000	432.46	(5.04)	5	92	74	0.06	0.49
06/04/2000	432.68	(4.82)	5	88	70	1.29	0.00
06/05/2000	432.99	(4.51)	5	77	68	0.34	0.38
06/06/2000	433.24	(4.26)	5	83	58	0.00	0.34
06/07/2000	433.38	(4.12)	5	80	59	0.00	0.28
06/08/2000	433.37	(4.13)	5	84	61	0.00	0.29
06/09/2000	433.35	(4.15)	5	87	73	0.00	0.35
06/10/2000	433.36	(4.14)	5	87	70	0.08	0.15
06/11/2000	433.38	(4.12)	5	85	69	0.45	0.00
06/12/2000	433.42	(4.08)	5	81	72	0.23	0.07
06/13/2000	433.49	(4.01)	5	90	70	0.00	0.36
06/14/2000	433.51	(3.99)	5	90	73	0.00	0.29
06/15/2000	433.95	(3.55)	5	88	63	3.62	0.00
06/16/2000	435.34	(2.16)	5	87	65	1.74	0.00
06/17/2000	436.12	(1.38)	5	92	73	0.00	0.27
06/18/2000	436.43	(1.07)	5	85	70	0.67	0.00
06/19/2000	436.57	(0.93)	5	80	68	0.00	0.09
06/20/2000	436.77	(0.73)	5	89	74	0.00	0.29
06/21/2000	436.93	(0.57)	5	91	76	0.00	0.34
06/22/2000	437.21	(0.29)	5	92	70	1.27	0.00
06/23/2000	437.59	0.09	45	90	72	0.00	0.38
06/24/2000	437.85	0.35	235	90	72	0.00	0.36
06/25/2000	437.84	0.34	230	92	74	0.00	0.31
06/26/2000	437.80	0.30	235	91	75	0.00	0.31
06/27/2000	437.78	0.28	235	89	74	0.00	0.22
06/28/2000	437.93	0.43	255	90	73	0.36	0.17
06/29/2000	437.96	0.46	355	92	70	0.00	0.29
06/30/2000	437.89	0.39	355	87	71	0.02	0.24
Avg or Tot	435.18	(2.32)	69	88	70	10.13	6.83

	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.					

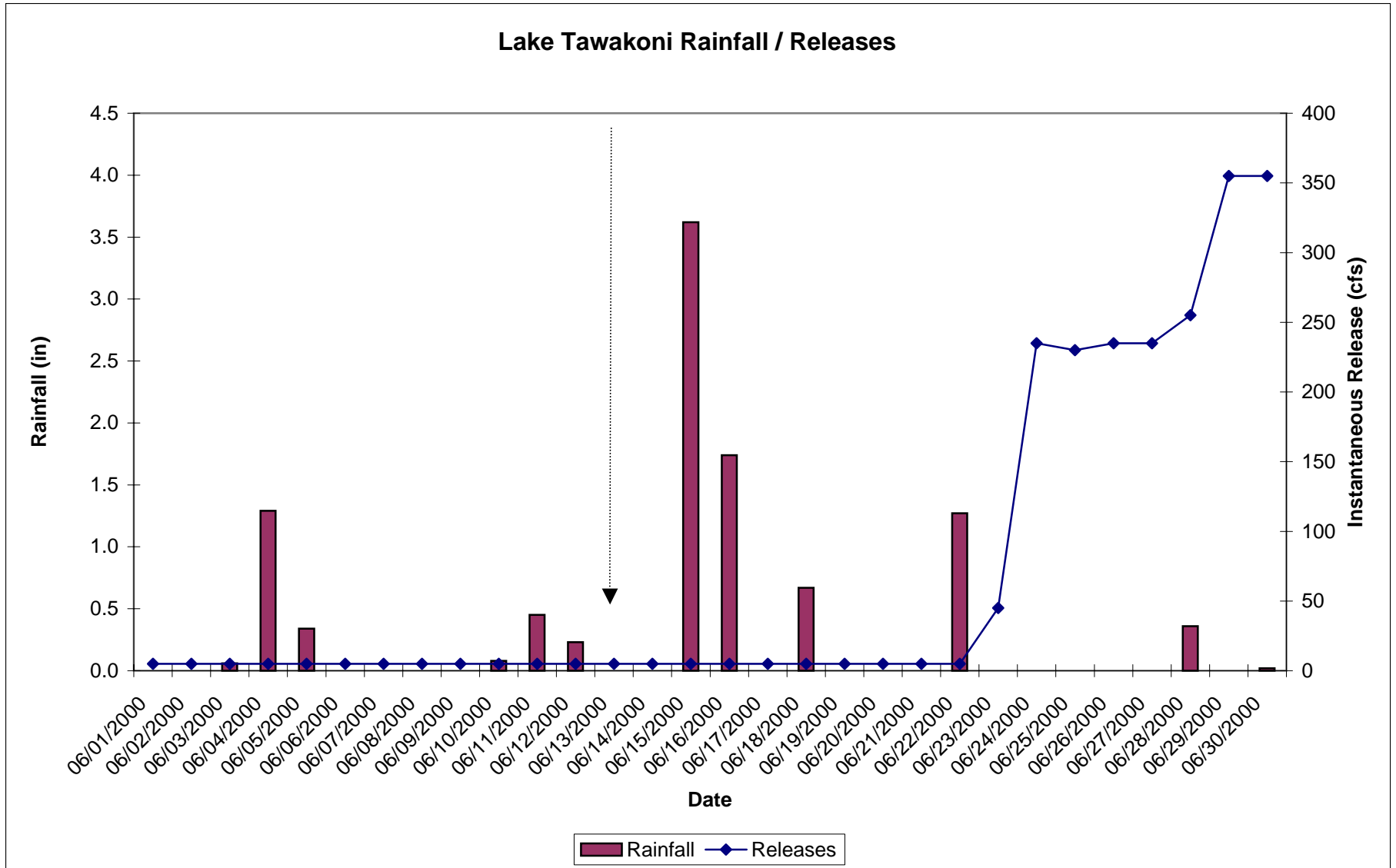
NR: No Reading

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

Lake Tawakoni Sampled on 6/13/2000

SABINE RIVER AUTHORITY OF TEXAS

June 2000



Please Note : Lake Tawakoni has an uncontrolled spillway.

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Lake Fork Weather and Reservoir Data

June 2000

Date	Lake Elev	LE - TOP	Releases avg	Releases cur	Max Temp	Min Temp	Rainfall	Evap
06/01/2000	400.94	(2.06)	28	28	81	72	0.00	0.28
06/02/2000	400.94	(2.06)	28	48	90	73	0.00	0.40
06/03/2000	400.90	(2.10)	48	48	90	74	0.00	0.31
06/04/2000	401.04	(1.96)	48	48	88	70	1.07	0.00
06/05/2000	401.89	(1.11)	48	48	76	70	0.85	0.00
06/06/2000	402.14	(0.86)	48	48	80	64	0.00	0.31
06/07/2000	402.19	(0.81)	48	48	78	59	0.00	0.32
06/08/2000	402.24	(0.76)	48	48	82	61	0.00	0.35
06/09/2000	402.24	(0.76)	48	48	86	65	0.00	0.35
06/10/2000	402.34	(0.66)	48	48	85	71	1.01	0.00
06/11/2000	402.44	(0.56)	48	48	88	64	0.67	0.00
06/12/2000	402.54	(0.46)	48	48	85	70	0.44	0.00
06/13/2000	402.54	(0.46)	48	48	81	72	0.00	0.21
06/14/2000	402.59	(0.41)	48	48	90	72	0.00	0.30
06/15/2000	403.66	0.66	48	2151	73	69	4.23	0.00
06/16/2000	404.39	1.39	14475	15065	78	70	0.17	0.18
06/17/2000	403.79	0.79	3585	15065	90	74	0.00	0.18
06/18/2000	403.79	0.79	3585	5768	75	72	0.75	0.00
06/19/2000	403.64	0.64	3567	5768	82	72	0.40	0.00
06/20/2000	403.49	0.49	3567	3558	85	73	0.08	0.16
06/21/2000	403.24	0.24	3556	3556	91	78	0.00	0.40
06/22/2000	403.39	0.39	2601	3549	91	72	1.00	0.00
06/23/2000	403.49	0.49	5360	5723	92	73	0.00	0.25
06/24/2000	403.24	0.24	4273	1424	79	74	0.00	0.35
06/25/2000	403.09	0.09	48	1424	91	75	0.00	0.31
06/26/2000	403.14	0.14	48	48	91	74	0.00	0.36
06/27/2000	403.19	0.19	48	48	82	76	0.00	0.23
06/28/2000	403.39	0.39	48	48	80	72	0.08	0.08
06/29/2000	403.49	0.49	972	1434	92	73	0.00	0.24
06/30/2000	403.59	0.59	7200	1434	90	70	3.20	0.00
Avg or Tot	402.77	(0.23)	1787	N/A	85	71	13.95	5.57

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

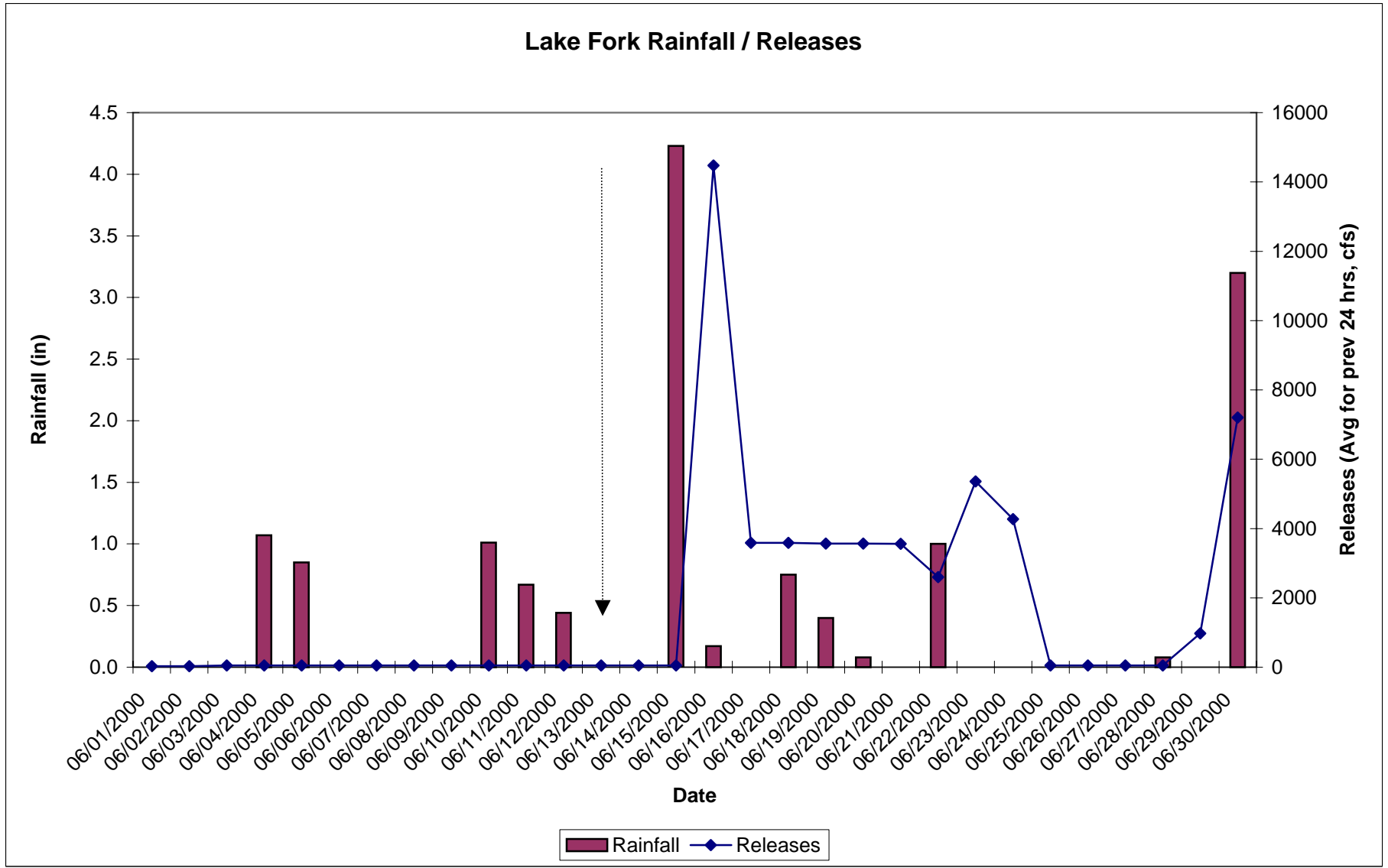
TOP: Top of Pool = 403 Feet M.S.L.

FRZN: Gauge Frozen

Lake Fork Sampled on 6/13/2000

SABINE RIVER AUTHORITY OF TEXAS

June 2000



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Current WQMP Stations

Lower Sabine Basin

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
4.10	0504 15658 (TB6N)	BAYOU SCIE AT LA SH 91
4.00	0504 10403 (TB8)	TOLEDO BEND RESERVOIR AT US 84
4.00	0504 10412 (TB6I)	TOLEDO BEND RESERVOIR AT TENAHA CREEK
4.00	0504 15657 (TB6M)	TOLEDO BEND RESERVOIR IN SAN PATRICIA ARM
4.00	0504 15656 (TB6L)	TOLEDO BEND RESERVOIR IN SAN MIGUEL ARM
4.00	0504 15655 (TB6J)	TOLEDO BEND RESERVOIR PATROON BAYOU BRANCH
4.00	0504 15659 (TB6K)	TOLEDO BEND RESERVOIR IN LANANA BAYOU
4.00	0504 10402 (TB6H)	TOLEDO BEND RESERVOIR AT SH 21
4.00	0504 10411 (TB6F)	TOLEDO BEND RESERVOIR IN SUNSHINE BAY
4.00	0504 10407 (TB6CN)	TOLEDO BEND RESERVOIR IN SIX MILE BOAT LANE
4.00	0504 10404 (TB6A)	TOLEDO BEND RESERVOIR ABOVE THE DAM
3.03	0503 10340 (BA4)	ANACOCO BAYOU AT LA HWY 111
3.00	0503 10401 (TB6S)	SABINE RIVER AT TOLEDO BEND SPILLWAY
3.00	0503 10400 (TB6)	SABINE RIVER BELOW POWERHOUSE
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

June 2000

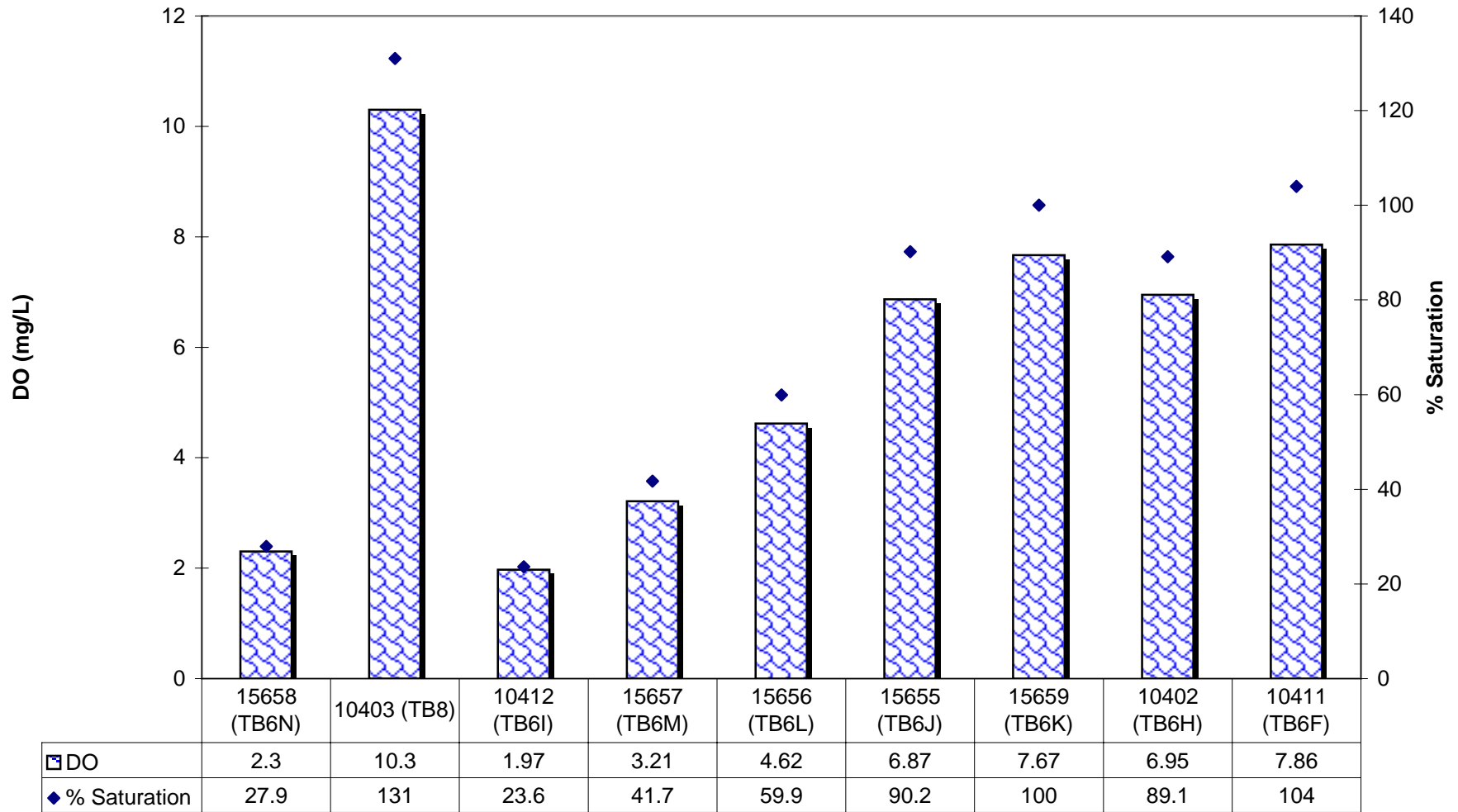
Date	SW ID	Station	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094	Salinity ppt 00480	Secchi Meters 00078	Turbidity NTU 82079	Fecal Coliform 31616	Fecal Strep 31673	Chlorophyll a µg/L 32211	Ammonia mg/L 00610	Nitrate & Nitrite 00630	Ortho- Phosphate 00671	TOC mg/L 00680	Total Alkalinity 00410	Total Hardness 00900	Chloride mg/L 00940	Sulfate mg/L 00945
6/14/00 12:38 PM	4.10	15658 (TB6N)	25.3	7.2	2.3	27.9	321	*	0.74	15	17	40	*	0.28	0.09	0.29	13	*	*	26.3	14.4
6/14/00 11:56 AM	4.00	10403 (TB8)	27.5	7.31	10.3	131	277	*	0.38	32.1	84	*	*	0.029	< 0.02	< 0.02	6	*	*	32.4	33.7
6/14/00 12:23 PM	4.00	10412 (TB6I)	26.3	6.88	1.97	23.6	243	*	0.85	7.71	13	*	*	0.091	0.1	0.23	12	*	*	21.4	21.5
6/14/00 12:48 PM	4.00	15657 (TB6M)	28.6	6.55	3.21	41.7	55	*	1.09	6.99	11	*	*	0.026	< 0.02	< 0.02	11	*	*	18.5	9.5
6/14/00 12:48 PM	4.00	15656 (TB6L)	29.2	6.97	4.62	59.9	141	*	1.12	5.78	16	*	*	0.027	< 0.02	< 0.02	12	*	*	13.4	8.9
6/14/00 10:23 AM	4.00	15655 (TB6J)	29.2	7.76	6.87	90.2	170	*	1.29	4.48	2	*	*	0.013	< 0.02	< 0.02	6	*	*	18.8	21
6/14/00 12:15 PM	4.00	15659 (TB6K)	29.3	8.03	7.67	100	85	*	1.89	2.81	2	*	*	< 0.001	< 0.02	< 0.02	6	*	*	19	18.4
6/14/00 11:10 AM	4.00	10402 (TB6H)	28.3	7.48	6.95	89.1	168	*	2.06	2.34	< 2	*	*	0.045	< 0.02	< 0.02	5	*	*	20.4	19.5
6/14/00 10:48 AM	4.00	10411 (TB6F)	29.9	8.07	7.86	104	86	*	1.47	3.11	< 2	*	*	0.012	< 0.02	< 0.02	6	*	*	11	13
6/14/00 9:39 AM	4.00	10407 (TB6CN)	29.1	7.42	7.16	93.4	95	*	2.13	2.43	2	*	*	0.013	< 0.02	< 0.02	6	*	*	11.9	13
6/14/00 10:20 AM	4.00	10404 (TB6A)	26.8	7.39	6.15	78.1	155	*	2	1.12	< 2	*	*	0.002	< 0.02	< 0.02	4	*	*	13.3	15
6/14/00 12:45 PM	3.03	10340 (BA4)	28.2	7.16	6.38	82.2	634	*	0.27	47.7	2	104	*	0.203	0.81	0.04	8	*	*	55.8	137
6/14/00 10:55 AM	3.00	10401 (TB6S)	26.5	7.31	7.74	95.6	160	*	> 1.5	1.69	92	*	*	0.02	< 0.02	< 0.02	5	*	*	13.4	15.3
6/14/00 10:00 AM	3.00	10400 (TB6)	21.6	6.6	4.75	53.2	159	*	> 1.1	0.81	2	*	*	0.036	0.04	< 0.02	4	*	*	13.4	15.1
6/14/00 12:18 PM	3.00	10399 (SR5)	27.1	7.11	6.77	85.4	156	*	> 1.7	1.65	7	*	*	0.018	< 0.02	< 0.02	5	*	*	13.3	15
6/14/00 1:10 PM	3.00	10398 (SR3)	28.7	7.29	6.9	89.2	170	*	0.6	7.67	9	*	*	0.031	0.05	< 0.02	4	*	*	15	20.2
6/14/00 1:37 PM	2.05	10465 (BCC1)	26.5	6.61	7.45	92.6	68	*	> 0.8	20.4	64	*	*	0.017	0.12	< 0.02	3	*	*	5.4	1.4
6/14/00 8:32 AM	2.00	10397 (SR2)	29.3	6.99	6.38	83.5	159	*	0.46	16.2	53	*	*	0.028	< 0.02	< 0.02	5	*	*	14.1	16.5

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

June 2000

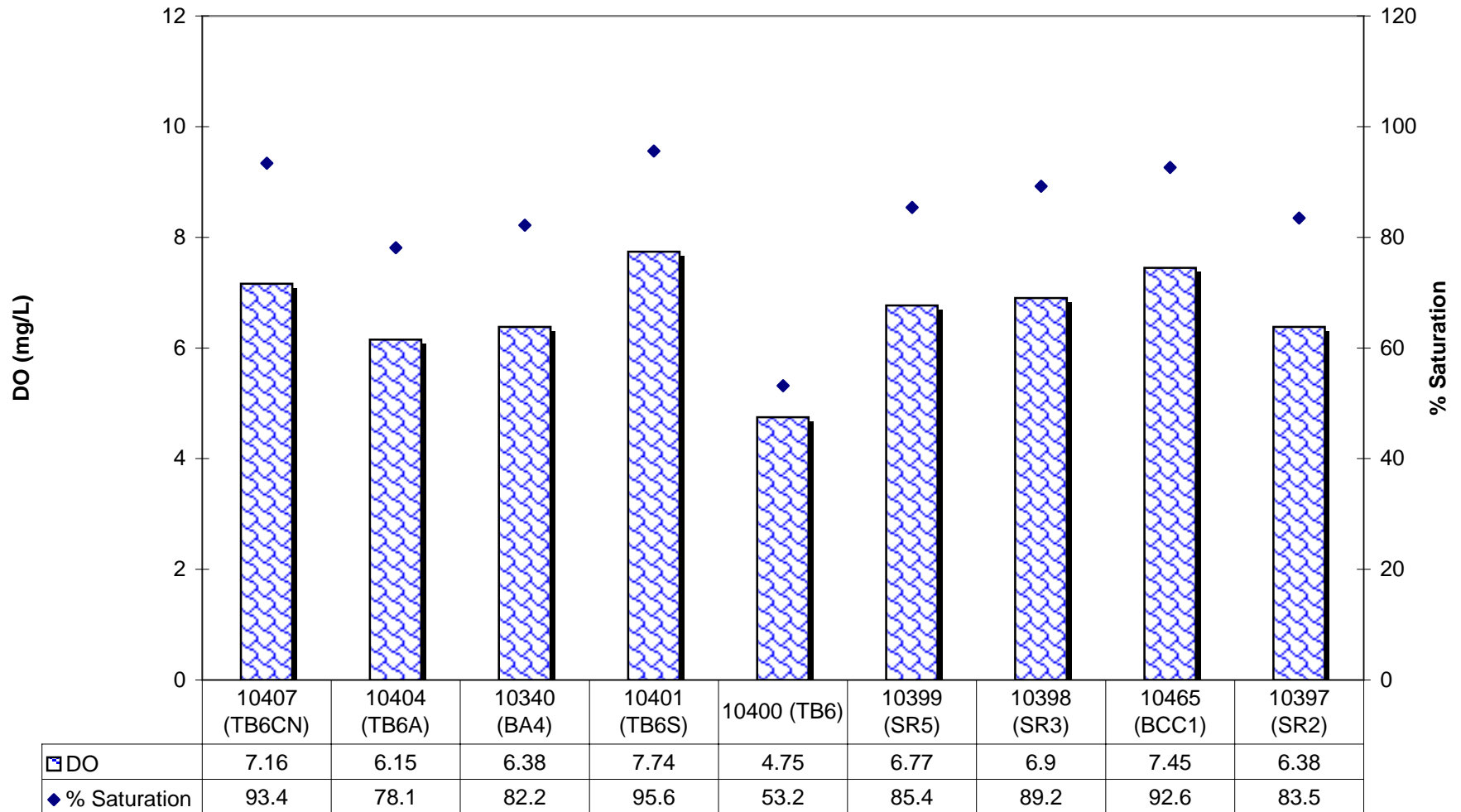
Lower Sabine Basin DO / % Saturation (1 of 2)



SABINE RIVER AUTHORITY OF TEXAS

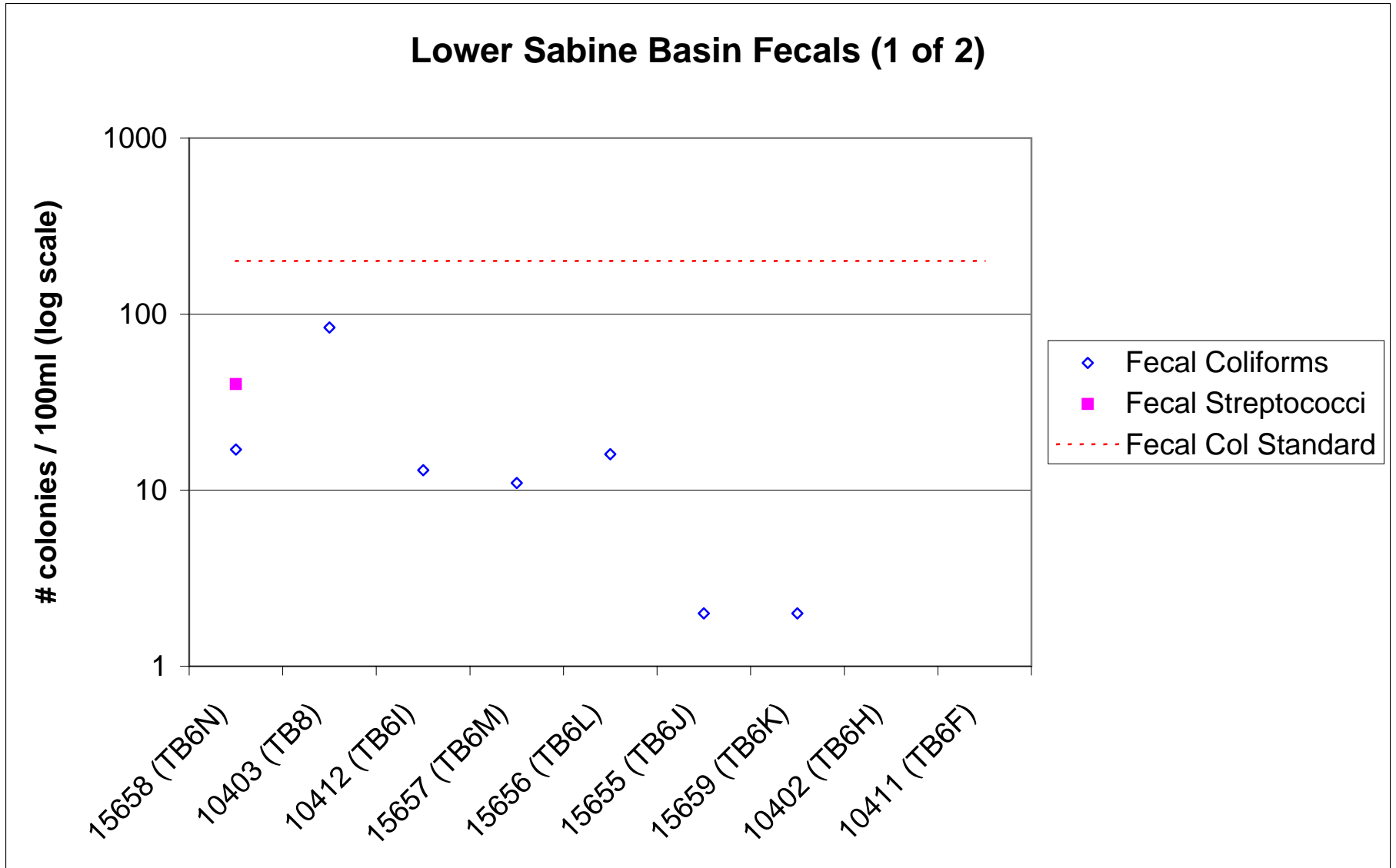
June 2000

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



SABINE RIVER AUTHORITY OF TEXAS

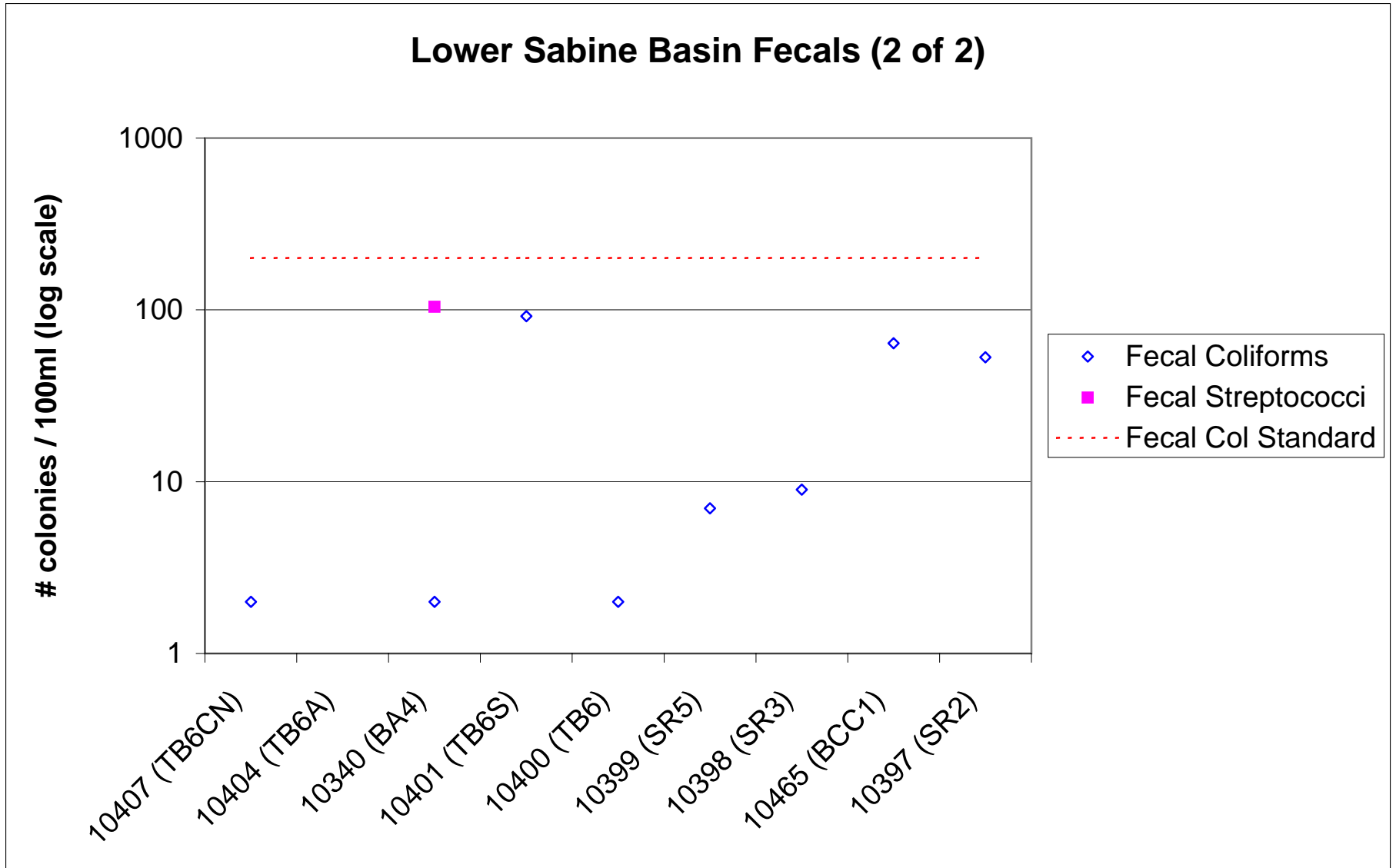
June 2000



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

SABINE RIVER AUTHORITY OF TEXAS

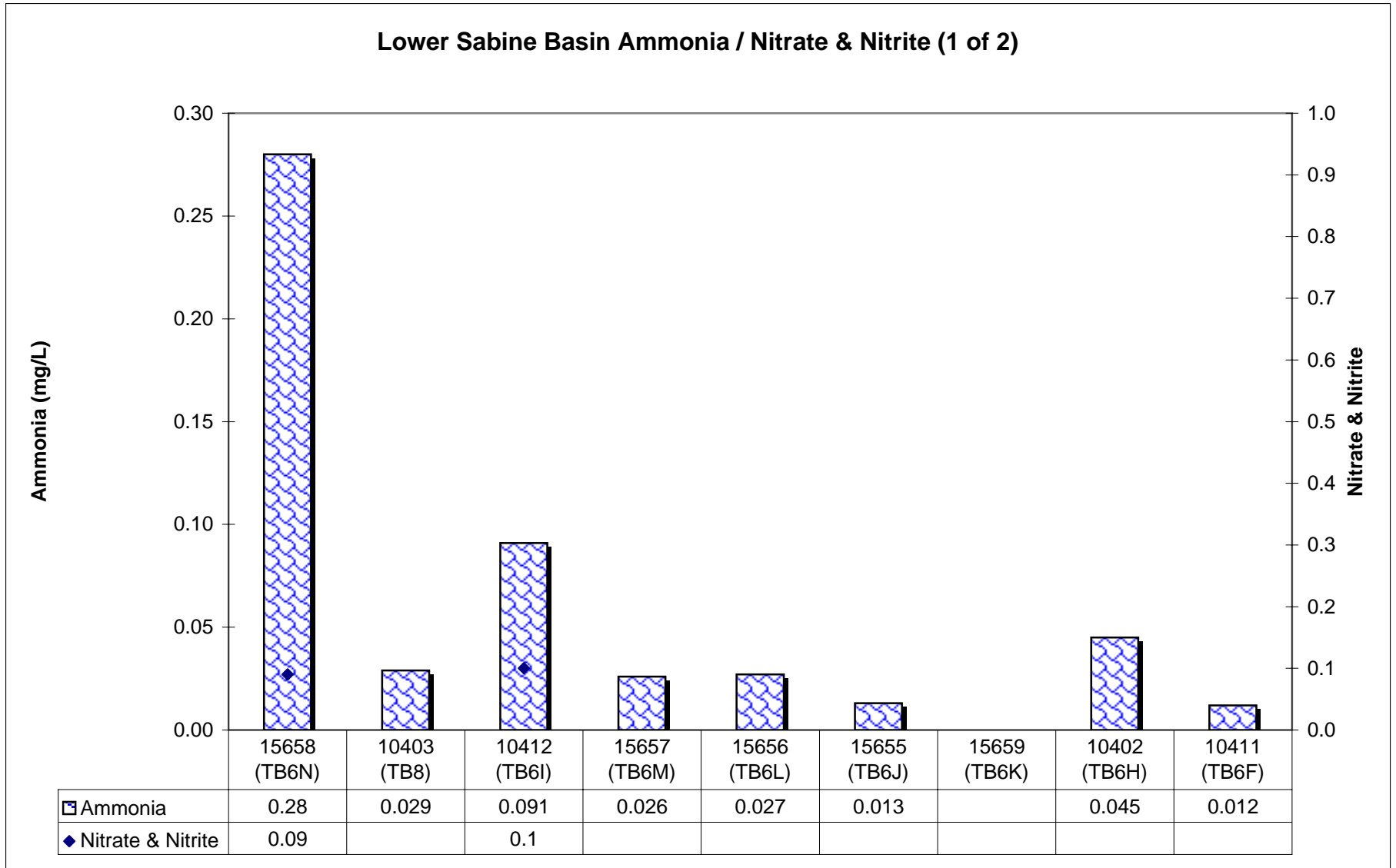
June 2000



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

SABINE RIVER AUTHORITY OF TEXAS

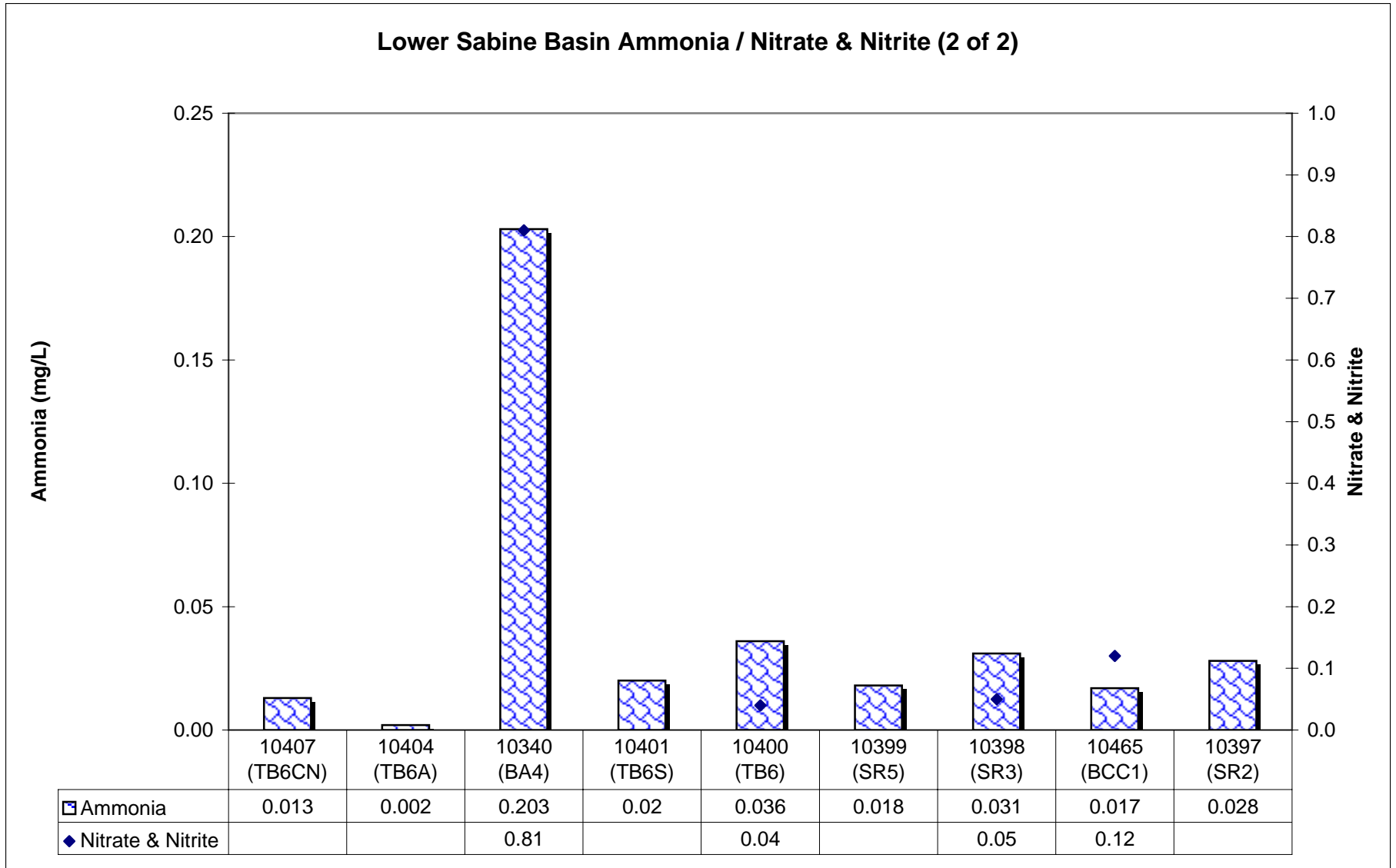
June 2000



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

SABINE RIVER AUTHORITY OF TEXAS

June 2000



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

SABINE RIVER AUTHORITY OF TEXAS

Lower Basin Profiles

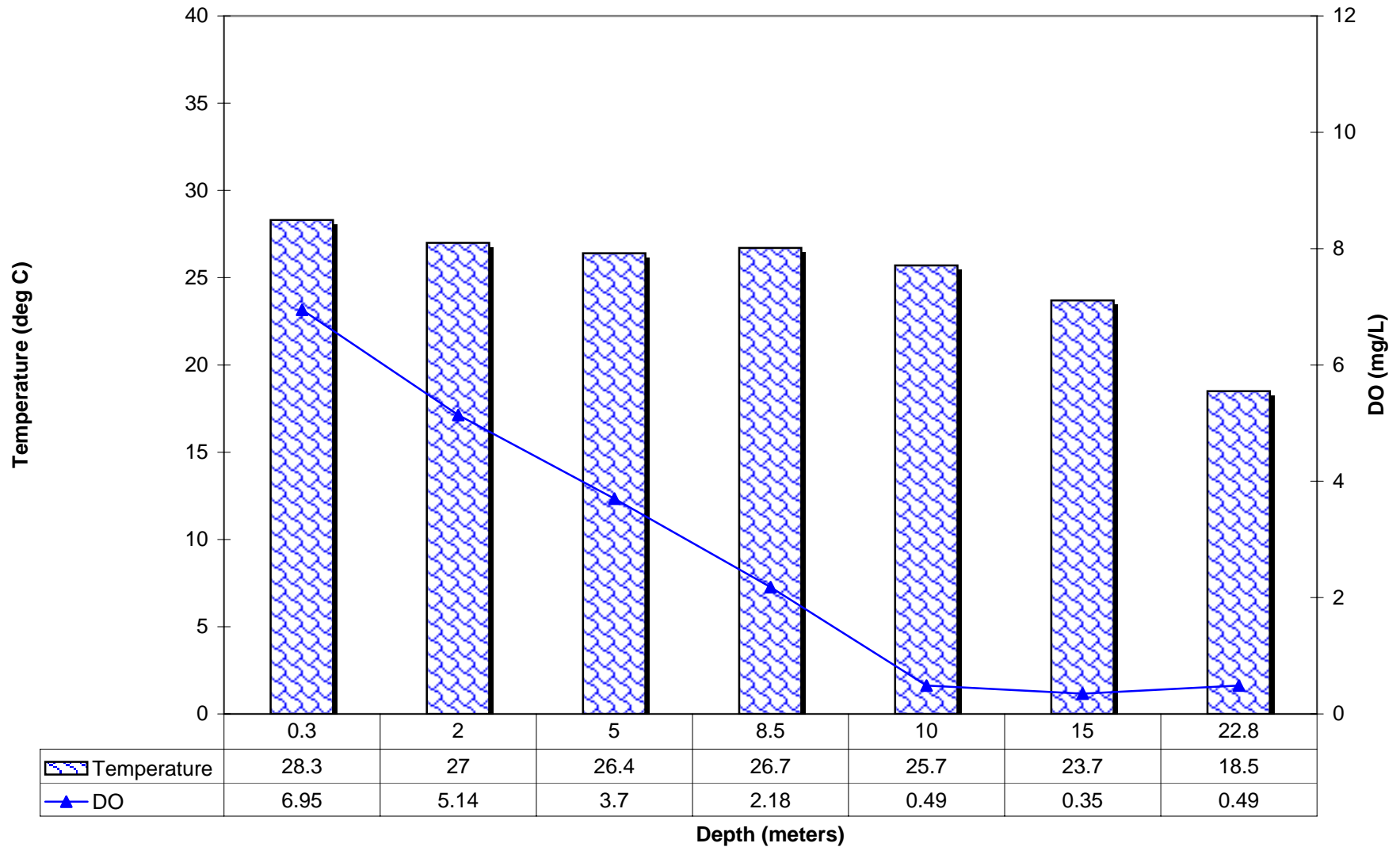
June 2000

Date	SW ID	Station	Depth Meters	Temperature °C 00010	pH Units 00400	DO mg/L 00300	% Saturation 00301	Conductivity µS/cm 00094
6/14/00 12:23 PM	4.00	10412 (TB6I)	0.3	26.3	6.88	1.97	23.6	243
			1	25.9	6.51	1.29	15.9	244
			2.08	24.5	6.55	0.47	5.8	266
			3.55	24.8	6.6	0.47	5.6	269
6/14/00 12:48 PM	4.00	15657 (TB6M)	0.3	28.6	6.55	3.21	41.7	55
			2	24.1	6.55	0.38	4	147
			4.2	23.7	6.65	0.29	3.2	154
6/14/00 12:48 PM	4.00	15656 (TB6L)	0.3	29.2	6.97	4.62	59.9	141
			2.5	28.3	7.06	3.3	42.6	140
6/14/00 10:23 AM	4.00	15655 (TB6J)	0.3	29.2	7.76	6.87	90.2	170
			2.5	28.9	7.59	6.73	87.1	186
			4.6	28.7	7.52	4.88	63.6	184
6/14/00 12:15 PM	4.00	15659 (TB6K)	0.3	29.3	8.03	7.67	100	85
			2	29.4	7.95	7.35	96.1	180
			4	29.2	7.52	5.73	74.6	177
			6	27.4	7.12	2.67	33.6	172
			9	27.2	7.56	2.03	24.6	176
6/14/00 11:10 AM	4.00	10402 (TB6H)	0.3	28.3	7.48	6.95	89.1	168
			2	27	7.26	5.14	64.2	191
			5	26.4	7.09	3.7	45.8	194
			8.5	26.7	7.04	2.18	27	195
			10	25.7	7.02	0.49	4.1	200
			15	23.7	6.96	0.35	4.4	214
			22.8	18.5	7.11	0.49	4.8	172
6/14/00 10:48 AM	4.00	10411 (TB6F)	0.3	29.9	8.07	7.86	104	86
			2.5	28.4	7.25	6.78	87.2	136
			4	27.4	6.99	3.65	45.7	126
			5.5	26.4	7.26	0.52	5.9	125
6/14/00 9:39 AM	4.00	10407 (TB6CN)	0.3	29.1	7.42	7.16	93.4	95
			1.5	28.8	7.24	6.96	89.7	125
			3	27.9	6.7	3.08	39.3	121
			3.6	27.3	6.59	1.58	19.6	116
			6.9	25.2	6.6	0.89	10.3	115
06/14/2000 10:20	4	10404 (TB6A)	0.3	26.8	7.39	6.15	78.1	155
			1	26.8	7.3	6.12	72.5	154
			2.5	26.2	7	5.38	66.8	155
			5	25.3	6.71	4.01	48.7	154
			7	24.1	6.57	2.71	32.1	156
			10	22.2	6.41	1.11	12.3	154
			14.5	17.8	6.36	0.16	1.7	140
			18	17	6.43	0.19	1.9	147
			25	15.9	6.56	0.33	3.1	177
06/14/2000 13:10	3	10398 (SR3)	0.3	28.7	7.29	6.9	89.2	170
			4.1	28.7	7.28	6.65	86.7	171
06/14/2000 8:32	2	10397 (SR2)	0.3	29.3	6.99	6.38	83.5	159
			2.1	29.3	7.03	6.48	84.7	160

SABINE RIVER AUTHORITY OF TEXAS

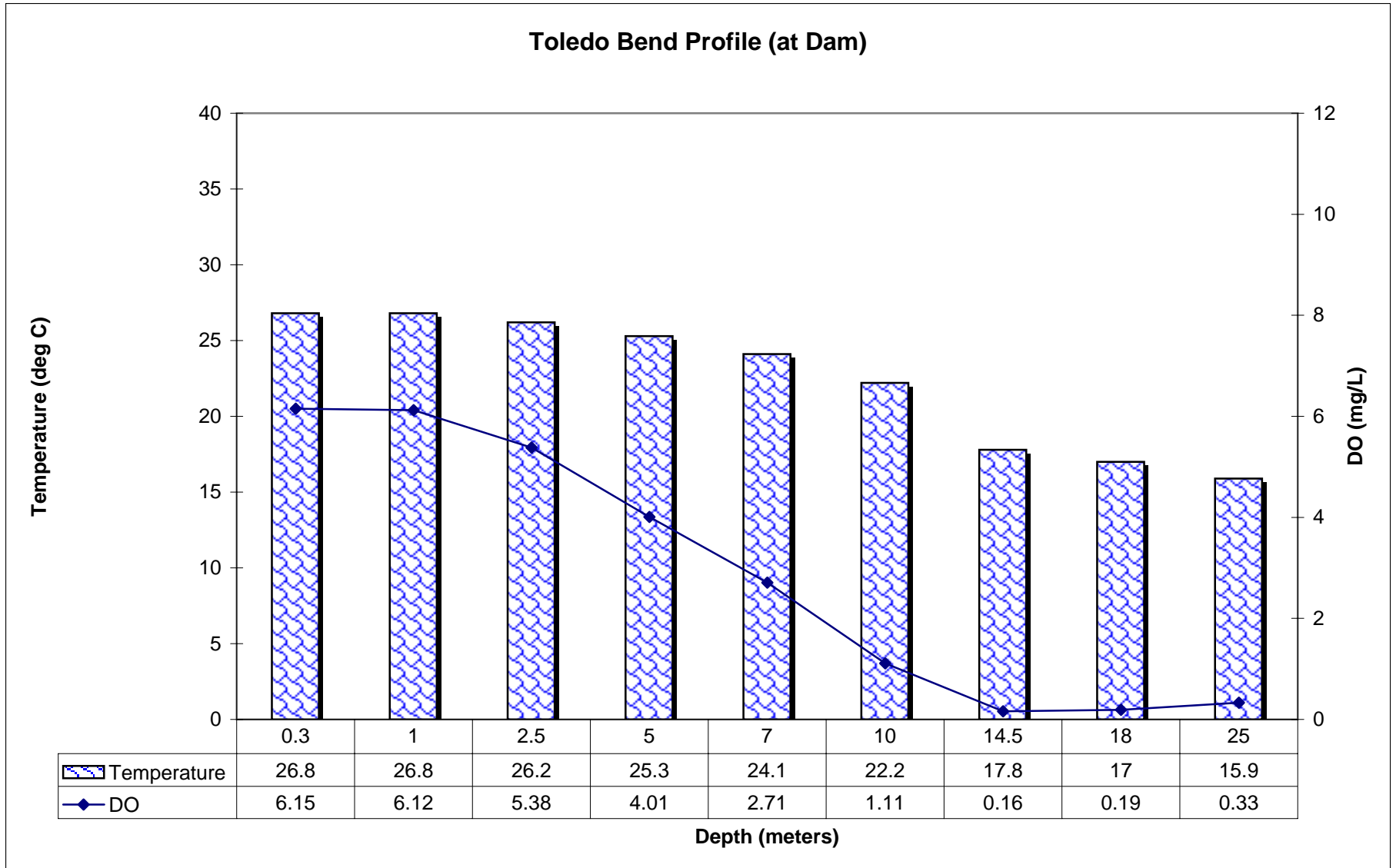
June 2000

Toledo Bend Profile (at Pendleton Bridge)



SABINE RIVER AUTHORITY OF TEXAS

June 2000



SABINE RIVER AUTHORITY OF TEXAS

Toledo Bend Weather and Reservoir Data

June 2000

Date	Lake Elev	LE - TOP	Max Temp	Min Temp	Rainfall	Evaporation	Daily Releases cfs	Daily Releases ac ft	Current Release
06/01/2000	171.27	(0.73)	92	66	0.00	0.34	3262	6470	460
06/02/2000	171.29	(0.71)	94	68	0.00	0.33	2720	5395	460
06/03/2000	171.25	(0.75)	93	69	0.00	0.32	160	317	460
06/04/2000	171.22	(0.78)	94	71	0.00	0.35	160	317	460
06/05/2000	171.36	(0.64)	85	70	0.90	0.20	2512	4982	460
06/06/2000	171.41	(0.59)	82	65	0.10	0.17	2557	5072	460
06/07/2000	171.35	(0.65)	80	60	0.00	0.25	2336	4633	460
06/08/2000	171.32	(0.68)	85	59	0.00	0.32	2532	5022	460
06/09/2000	171.26	(0.74)	91	62	0.00	0.32	2463	4885	460
06/10/2000	171.24	(0.76)	86	70	0.10	0.16	160	317	460
06/11/2000	171.24	(0.76)	90	70	0.60	0.09	160	317	460
06/12/2000	171.30	(0.70)	90	68	0.00	0.19	2478	4915	460
06/13/2000	171.27	(0.73)	92	71	0.00	0.31	2453	4865	430
06/14/2000	171.15	(0.85)	89	69	0.30	0.37	2460	4879	430
06/15/2000	171.24	(0.76)	87	70	0.65	0.26	2441	4842	430
06/16/2000	171.19	(0.81)	89	70	0.20	0.27	2841	5635	430
06/17/2000	171.18	(0.82)	90	72	0.08	0.24	130	258	430
06/18/2000	171.23	(0.77)	85	70	0.40	0.26	130	258	430
06/19/2000	171.28	(0.72)	87	68	0.02	0.13	2931	5814	430
06/20/2000	171.19	(0.81)	91	69	0.05	0.16	2817	5587	430
06/21/2000	171.25	(0.75)	90	73	0.55	0.30	2529	5016	430
06/22/2000	171.21	(0.79)	92	73	0.00	0.30	2517	4992	430
06/23/2000	171.29	(0.71)	94	73	0.00	0.30	2503	4965	430
06/24/2000	171.26	(0.74)	94	68	0.00	0.32	130	258	430
06/25/2000	171.30	(0.70)	93	68	0.00	0.32	130	258	430
06/26/2000	171.35	(0.65)	94	72	0.00	0.33	2491	4941	430
06/27/2000	171.38	(0.62)	93	72	0.00	0.21	2503	4965	430
06/28/2000	171.42	(0.58)	94	71	0.20	0.36	2432	4824	430
06/29/2000	171.53	(0.47)	93	72	0.29	0.36	3415	6774	430
06/30/2000	171.54	(0.46)	86	72	0.02	0.14	4990	9898	430
Avg or Tot	171.29	(0.71)	90	69	4.46	7.98	2045	121671	

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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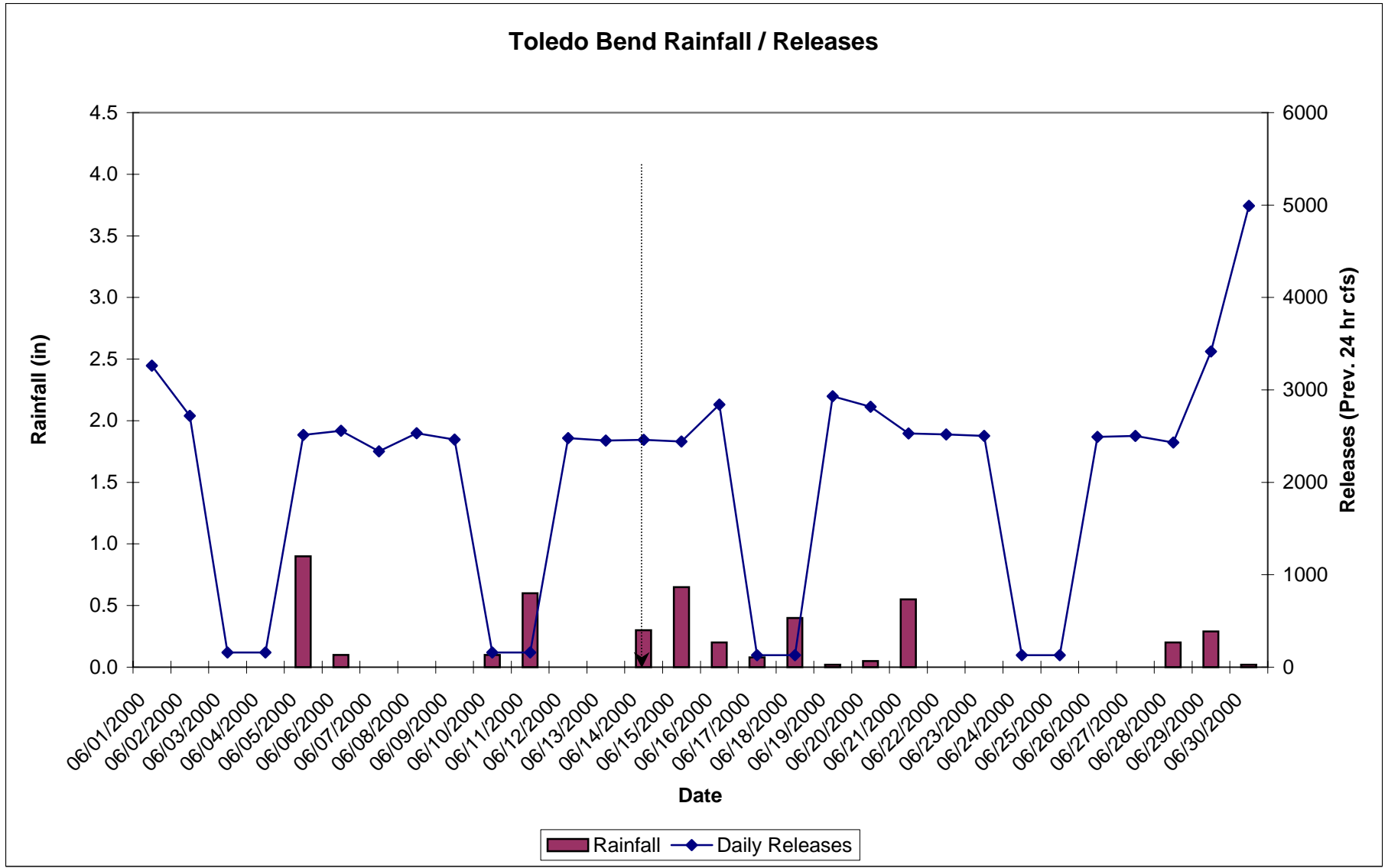
NR: No Reading

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

Toledo Bend Sampled on 6/14/2000

SABINE RIVER AUTHORITY OF TEXAS

June 2000



SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

June 2000

Date	Rainfall	Gauge Height	GH - FS	Flow
06/01/2000	*	16.07	(24.93)	1849
06/02/2000	*	17.26	(23.74)	2749
06/03/2000	*	15.98	(25.02)	1787
06/04/2000	*	12.60	(28.40)	204
06/05/2000	*	12.56	(28.44)	195
06/06/2000	*	15.90	(25.10)	1733
06/07/2000	*	16.74	(24.26)	2343
06/08/2000	*	16.58	(24.42)	2221
06/09/2000	*	16.54	(24.46)	2190
06/10/2000	*	16.25	(24.75)	1977
06/11/2000	*	13.04	(27.96)	325
06/12/2000	*	12.90	(28.10)	284
06/13/2000	*	16.57	(24.43)	2213
06/14/2000	*	16.59	(24.41)	2228
06/15/2000	*	16.63	(24.37)	2259
06/16/2000	*	16.44	(24.56)	2115
06/17/2000	*	16.63	(24.37)	2259
06/18/2000	*	13.01	(27.99)	316
06/19/2000	*	12.81	(28.19)	259
06/20/2000	*	16.55	(24.45)	2198
06/21/2000	*	17.10	(23.90)	2626
06/22/2000	*	16.51	(24.49)	2167
06/23/2000	*	16.35	(24.65)	2049
06/24/2000	*	16.30	(24.70)	2013
06/25/2000	*	12.87	(28.13)	275
06/26/2000	*	12.67	(28.33)	221
06/27/2000	*	16.21	(24.79)	1948
06/28/2000	*	16.50	(24.50)	2160
06/29/2000	*	16.46	(24.54)	2130
06/30/2000	*	17.77	(23.23)	3160
Avg or Tot		15.55	(25.45)	1682

	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

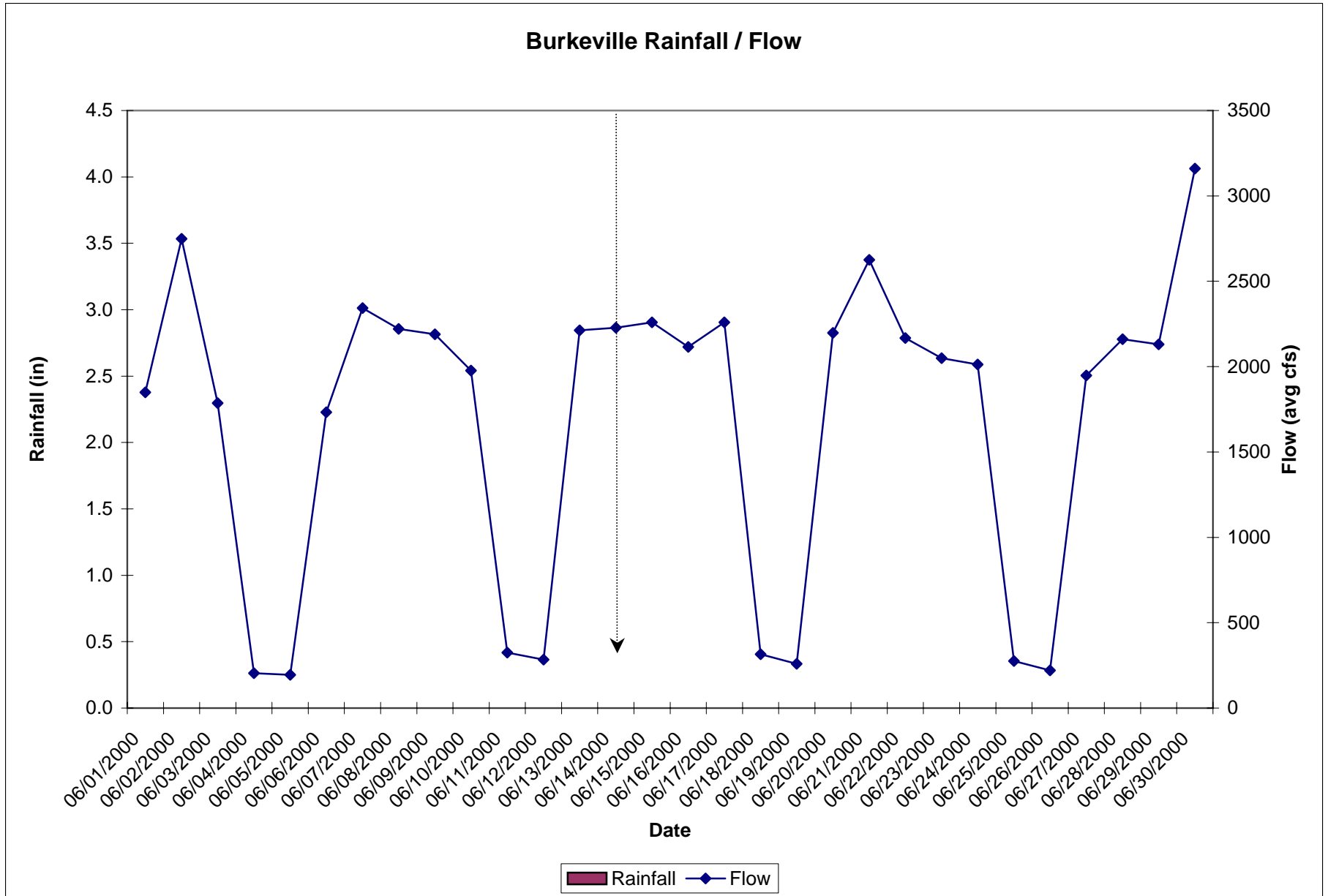
OUT: Gage Out

Lower Sabine Basin Sampled on 6/14/2000

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

SABINE RIVER AUTHORITY OF TEXAS

June 2000



Lower Sabine Basin Sampled on 6/14/2000.

Rainfall readings not presented due to vibrations on the bridge on which the gauge is mounted.

SABINE RIVER AUTHORITY OF TEXAS

Bon Wier Weather and River Data

June 2000

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow Avg</i>	<i>308 Rainfall</i>
06/01/2000	16.77	(13.23)	3263	0.00
06/02/2000	15.54	(14.46)	2265	0.00
06/03/2000	16.22	(13.78)	2796	0.00
06/04/2000	15.57	(14.43)	2287	0.00
06/05/2000	13.49	(16.51)	976	0.40
06/06/2000	13.14	(16.86)	805	0.00
06/07/2000	15.40	(14.60)	2161	0.00
06/08/2000	15.47	(14.53)	2213	0.00
06/09/2000	15.49	(14.51)	2227	0.00
06/10/2000	15.47	(14.53)	2213	0.71
06/11/2000	15.37	(14.63)	2139	0.39
06/12/2000	13.39	(16.61)	925	0.09
06/13/2000	12.86	(17.14)	679	0.00
06/14/2000	15.25	(14.75)	2053	0.00
06/15/2000	15.47	(14.53)	2213	0.03
06/16/2000	15.39	(14.61)	2154	0.00
06/17/2000	15.42	(14.58)	2176	0.03
06/18/2000	15.53	(14.47)	2257	0.91
06/19/2000	13.48	(16.52)	971	0.21
06/20/2000	13.10	(16.90)	786	0.03
06/21/2000	15.90	(14.10)	2540	0.00
06/22/2000	15.81	(14.19)	2470	0.00
06/23/2000	15.68	(14.32)	2370	0.00
06/24/2000	15.55	(14.45)	2272	0.00
06/25/2000	15.30	(14.70)	2089	0.00
06/26/2000	13.26	(16.74)	862	0.00
06/27/2000	12.72	(17.28)	619	0.13
06/28/2000	15.38	(14.62)	2146	0.90
06/29/2000	15.46	(14.54)	2205	0.00
06/30/2000	15.62	(14.38)	2325	0.30
Avg or Tot	14.95	(15.05)	1915	4.13

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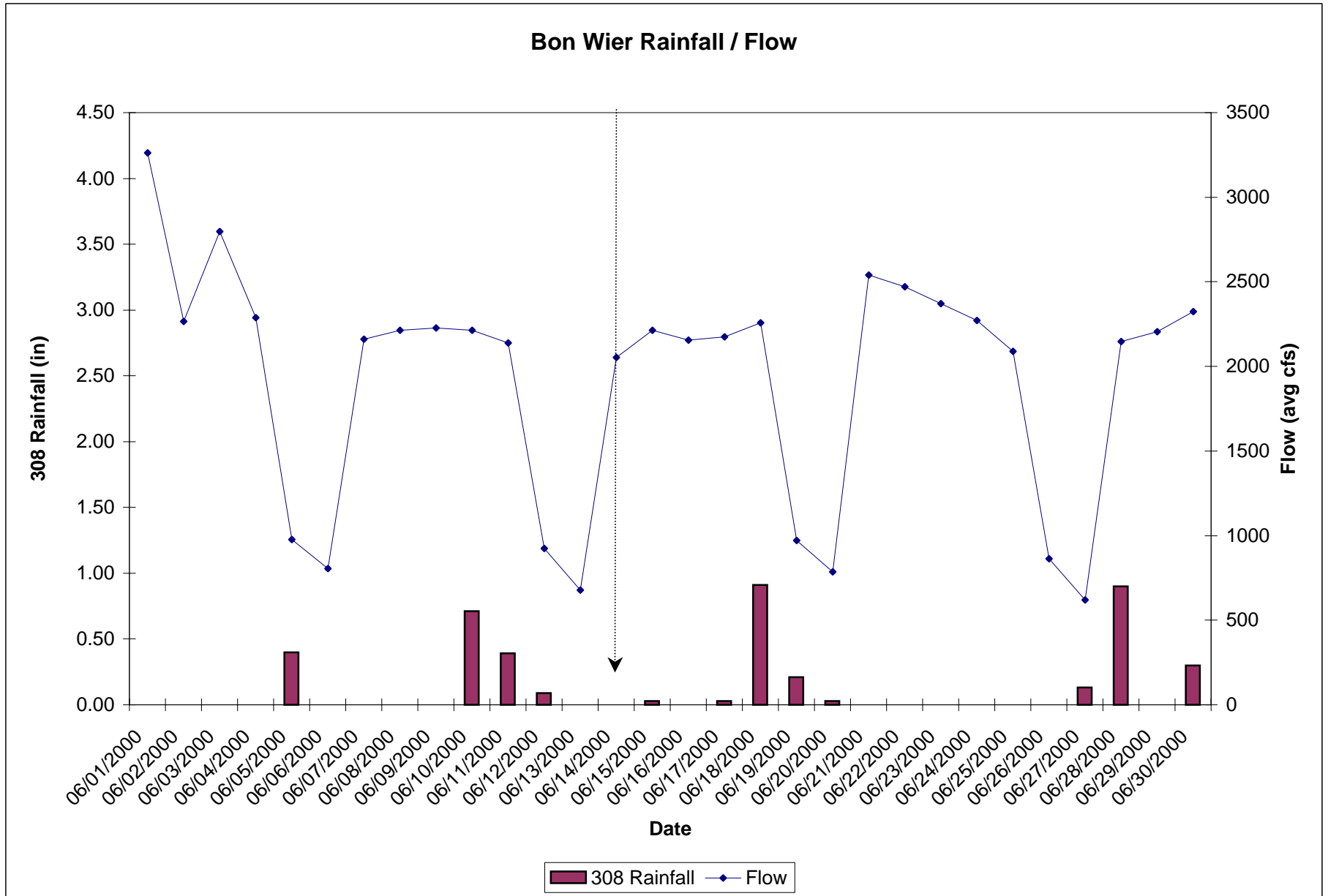
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 6/14/2000

Sabine River Authority of Texas

June 2000



SABINE RIVER AUTHORITY OF TEXAS

Ruliff Weather and River Data

June 2000

Date	<i>Gauge Height</i>	<i>GH - FS</i>	<i>Flow cfs</i>	<i>Flow acft</i>	<i>Flow avg</i>	<i>309 Rainfall</i>
06/01/2000	17.70	(6.30)	2734	5423	2734	OUT
06/02/2000	19.39	(4.61)	3973	7880	3354	OUT
06/03/2000	19.18	(4.82)	3770	7478	3492	OUT
06/04/2000	18.91	(5.09)	3536	7014	3503	OUT
06/05/2000	18.86	(5.14)	3501	6944	3503	OUT
06/06/2000	17.13	(6.87)	2394	4748	3318	OUT
06/07/2000	15.43	(8.57)	1591	3156	3071	0.00
06/08/2000	16.88	(7.12)	2256	4475	2969	0.00
06/09/2000	18.01	(5.99)	2926	5804	2965	0.00
06/10/2000	18.22	(5.78)	3064	6077	2975	0.10
06/11/2000	18.27	(5.73)	3097	6143	2986	0.01
06/12/2000	18.25	(5.75)	3084	6117	2994	0.01
06/13/2000	16.79	(7.21)	2209	4381	2933	0.00
06/14/2000	15.05	(8.95)	1448	2872	2827	0.10
06/15/2000	16.38	(7.62)	1998	3963	2772	0.49
06/16/2000	17.76	(6.24)	2770	5494	2772	0.00
06/17/2000	18.02	(5.98)	2933	5818	2781	0.13
06/18/2000	18.20	(5.80)	3051	6052	2796	1.59
06/19/2000	18.34	(5.66)	3144	6236	2815	0.40
06/20/2000	17.00	(7.00)	2320	4602	2790	0.10
06/21/2000	15.37	(8.63)	1568	3110	2732	0.00
06/22/2000	17.24	(6.76)	2458	4875	2719	0.00
06/23/2000	18.26	(5.74)	3090	6129	2735	0.00
06/24/2000	18.44	(5.56)	3212	6371	2755	0.00
06/25/2000	18.33	(5.67)	3137	6222	2771	0.00
06/26/2000	18.16	(5.84)	3024	5998	2780	0.00
06/27/2000	16.71	(7.29)	2167	4298	2758	0.65
06/28/2000	15.21	(8.79)	1508	2991	2713	0.92
06/29/2000	16.26	(7.74)	1938	3844	2686	0.00
06/30/2000	17.84	(6.16)	2820	5593	2691	0.56
Avg or Tot	17.52	(6.48)	2691	160108		5.06

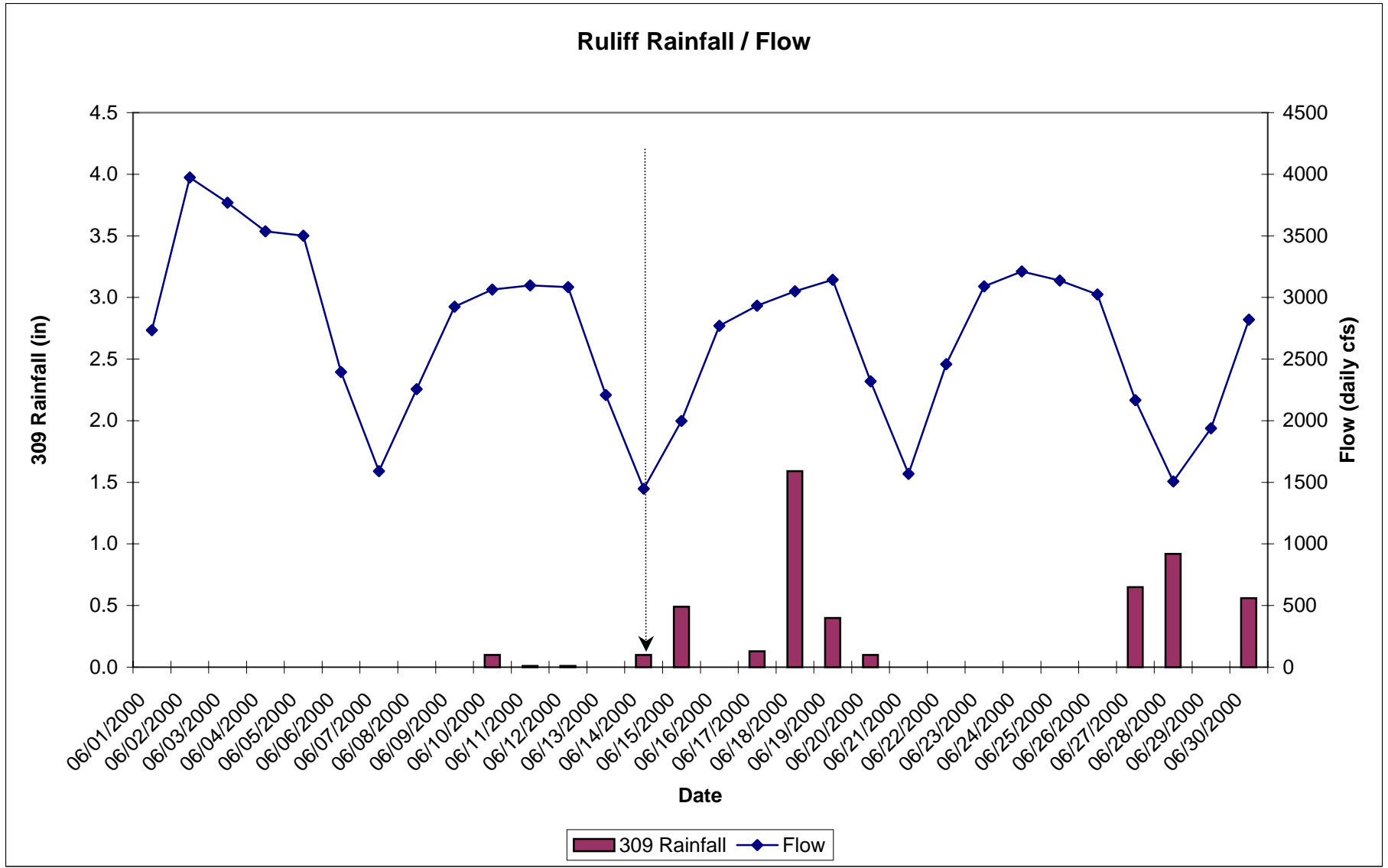
Units	Avg Feet	Avg Feet	Avg cfs	Tot ac ft	Tot Inches
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FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 6/14/2000

SABINE RIVER AUTHORITY OF TEXAS

June 2000



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Current WQMP Stations

Tidal Sabine Basin

<i>SW</i>	<i>Segment Station</i>	<i>Location</i>
1.05	0501 15653 (ICW1)	INTERCOASTAL WATERWAY
1.01	0501 15654 (BB1)	BLACK BAYOU
1.00	0501 10395 (SR1)	SABINE RIVER 12 KM N OF IH10
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

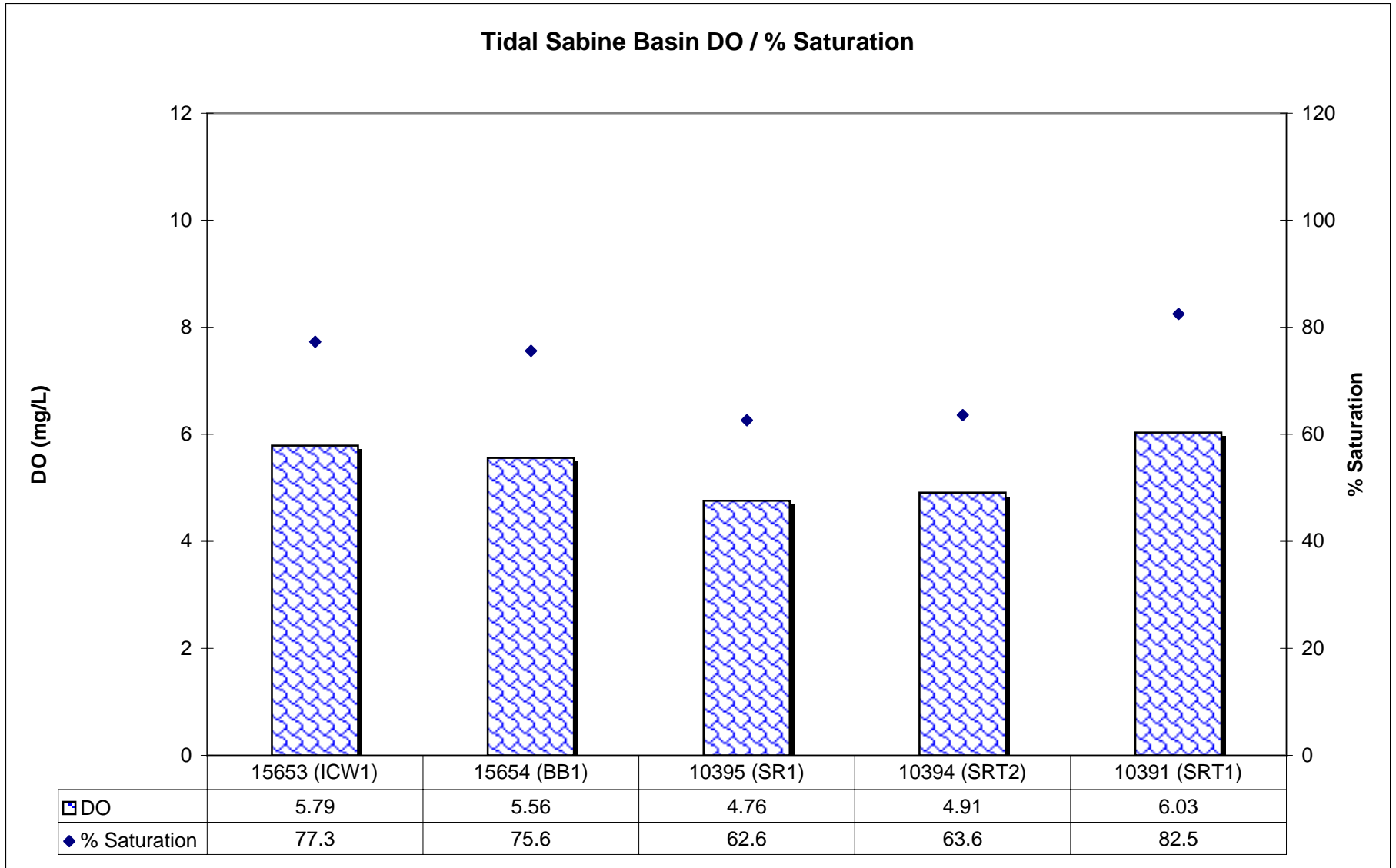
June 2000

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
6/15/00 10:30 AM	1.05	15653 (ICW1)	29	7.28	5.79	77.3	7485	4	0.77	7.34	9	*	*	< 0.001	0.34	< 0.02	< 1	*	*	116	159
6/15/00 10:55 AM	1.01	15654 (BB1)	28.6	7.46	5.56	75.6	15090	9	0.6	12.1	< 2	*	*	0.395	2.11	< 0.02	< 1	*	*	2110	281
6/15/00 9:23 AM	1.00	10395 (SR1)	29.6	7.16	4.76	62.6	298	*	0.58	17.4	9	*	*	0.214	< 0.02	< 0.02	5	*	*	14.9	48
6/15/00 9:43 AM	1.00	10394 (SRT2)	29.2	7.11	4.91	63.6	1369	< 1	0.74	12.4	22	*	*	0.128	0.45	< 0.02	< 1	*	*	386	67.4
6/15/00 11:10 AM	1.00	10391 (SRT1)	28.7	7.53	6.03	82.5	14300	8	0.79	10.1	6	*	*	1.36	1.22	< 0.02	< 1	*	*	5210	698

*: Not sampled on this run

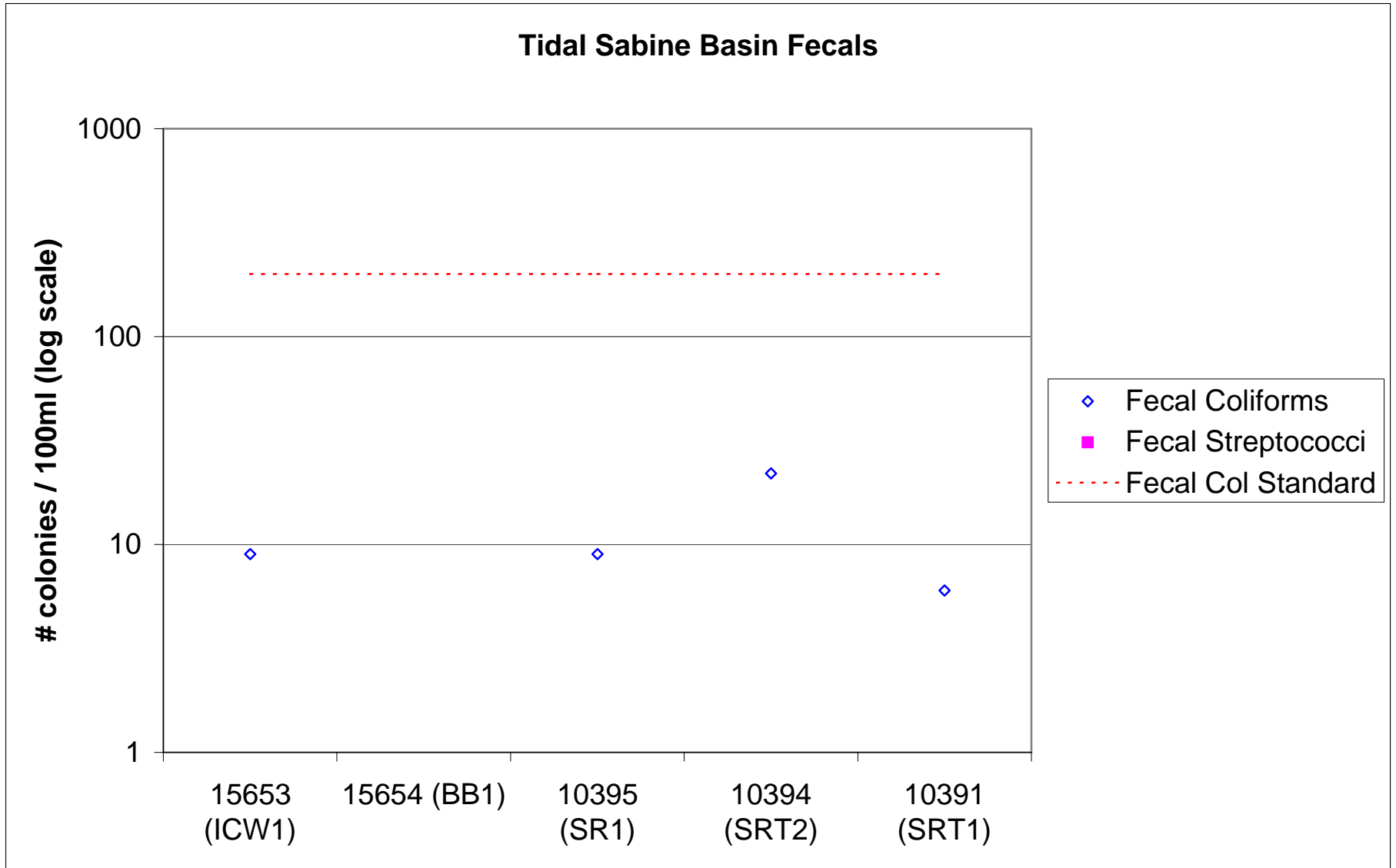
SABINE RIVER AUTHORITY OF TEXAS

June 2000



SABINE RIVER AUTHORITY OF TEXAS

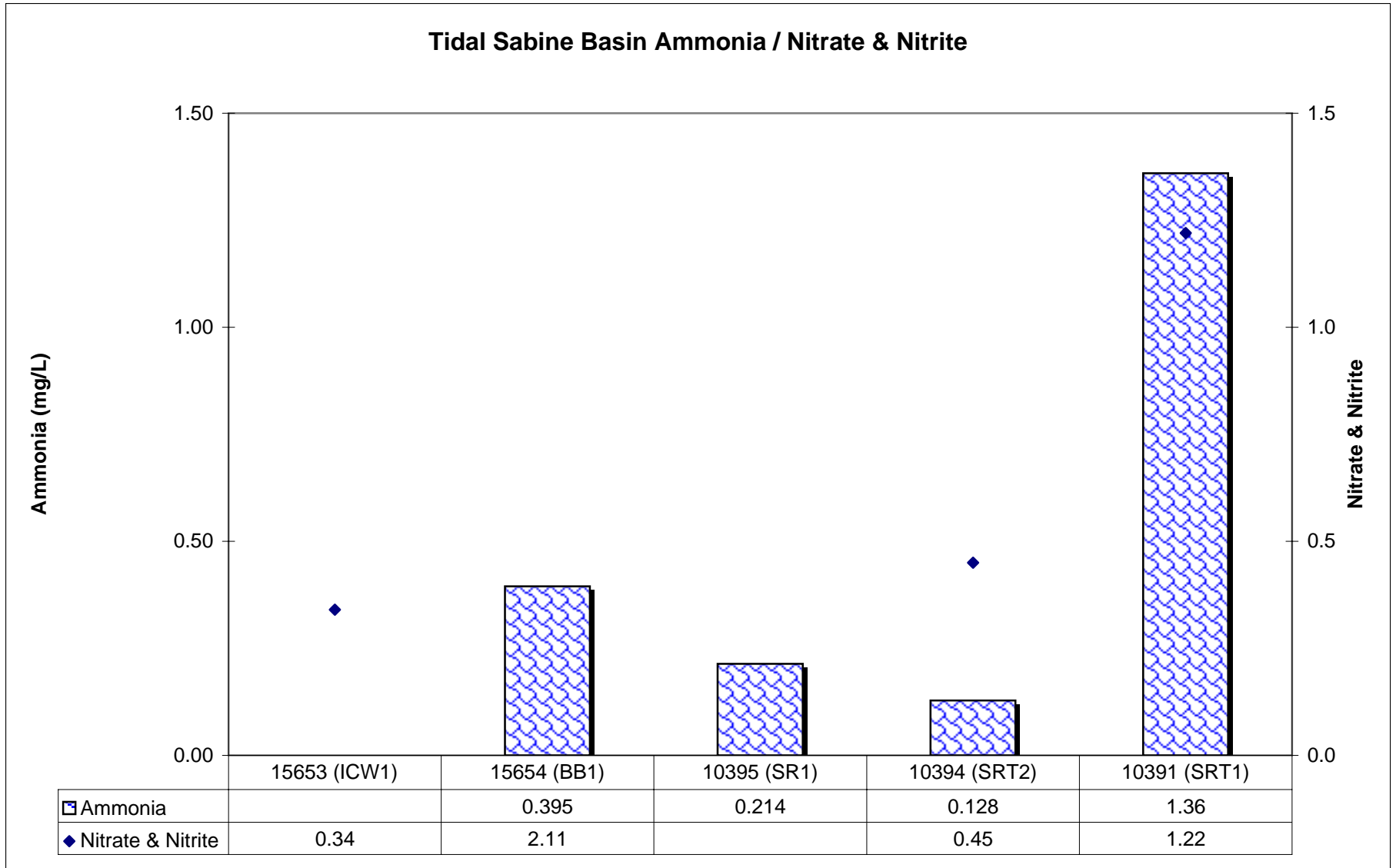
June 2000



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

SABINE RIVER AUTHORITY OF TEXAS

June 2000



Stations without values were below detection limit on this run (see page 38).

SABINE RIVER AUTHORITY OF TEXAS

Tidal Profiles

June 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
6/15/00 10:30 AM	1.05	15653 (ICW1)	0.3	29	7.28	5.79	77.3	7485	4
			3	28.9	7.21	5.49	73.5	8077	4
			6.1	28.9	7.2	5.41	71.9	8664	5
6/15/00 10:55 AM	1.01	15654 (BB1)	0.3	28.6	7.46	5.56	75.6	15090	9
			3.6	28.5	7.45	5.56	74.9	15020	9
6/15/00 9:23 AM	1.00	10395 (SR1)	0.3	29.6	7.16	4.76	62.6	298	*
			3.7	29.2	7.14	4.45	57.8	290	*
6/15/00 9:43 AM	1.00	10394 (SRT2)	0.3	29.2	7.11	4.91	63.6	1369	< 1
			3	28.9	7.15	4.49	59	2229	1
			6	28.6	7.15	2.96	40	10920	6
			9.2	28.1	6.79	1.93	25.9	19400	12
06/15/2000 11:10	1.00	10391 (SRT1)	0.3	28.7	7.53	6.03	82.5	14300	8
			5	28.3	7.52	5.76	78.6	14660	9
			10	25.2	7.48	5.57	75.3	15860	9

*: Not sampled on this run

SABINE RIVER AUTHORITY OF TEXAS

Orange Weather and River Data

June 2000

Date	310 (Orange) Rainfall	Gauge Height	GH - FS	Max Temp	Min Temp	Cur Temp	293 (GCD) Rainfall
06/01/2000	0.00	1.93	(2.07)	90	71	72	0.00
06/02/2000	0.00	1.70	(2.30)	91	70	70	0.00
06/03/2000	0.00	1.34	(2.66)	90	70	70	0.00
06/04/2000	0.00	0.94	(3.06)	91	70	74	0.00
06/05/2000	0.00	0.73	(3.27)	91	73	73	0.47
06/06/2000	0.57	0.07	(3.93)	83	68	68	0.01
06/07/2000	0.00	0.66	(3.34)	83	62	62	0.00
06/08/2000	0.00	1.46	(2.54)	85	61	64	0.00
06/09/2000	0.01	1.69	(2.31)	89	64	75	0.00
06/10/2000	0.04	2.00	(2.00)	84	74	76	0.02
06/11/2000	0.00	2.25	(1.75)	89	73	74	0.01
06/12/2000	0.00	2.01	(1.99)	89	69	69	0.00
06/13/2000	0.00	1.72	(2.28)	91	69	72	0.00
06/14/2000	0.00	1.92	(2.08)	90	72	77	0.00
06/15/2000	0.00	1.65	(2.35)	89	73	73	0.06
06/16/2000	0.00	1.93	(2.07)	89	72	78	0.00
06/17/2000	0.82	2.05	(1.95)	89	75	75	0.40
06/18/2000	0.91	1.58	(2.42)	81	71	71	0.85
06/19/2000	1.77	1.46	(2.54)	87	71	72	0.95
06/20/2000	1.81	1.44	(2.56)	89	72	76	0.01
06/21/2000	0.00	1.56	(2.44)	90	76	77	0.00
06/22/2000	0.00	1.20	(2.80)	90	76	77	0.00
06/23/2000	0.00	1.01	(2.99)	93	73	73	0.00
06/24/2000	0.00	1.27	(2.73)	92	70	70	0.00
06/25/2000	0.00	1.42	(2.58)	90	70	72	0.00
06/26/2000	0.00	1.70	(2.30)	92	72	74	0.00
06/27/2000	0.00	1.62	(2.38)	92	73	73	1.04
06/28/2000	0.00	1.72	(2.28)	91	72	72	0.07
06/29/2000	0.00	1.65	(2.35)	92	72	75	0.00
06/30/2000	0.00	1.44	(2.56)	92	75	75	0.19
Avg or Tot	5.93	1.50	(2.50)	89	71	73	4.08

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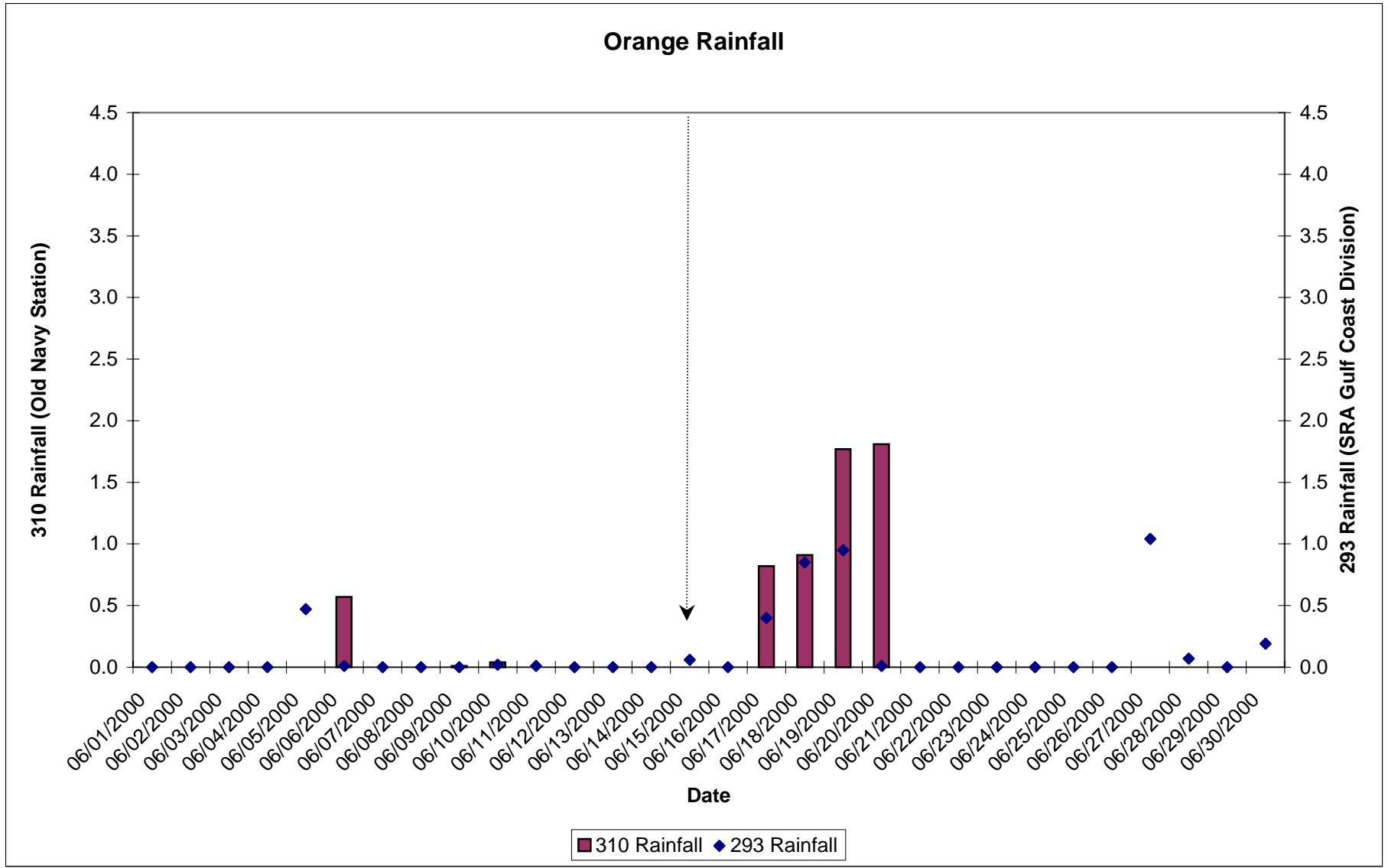
Appx. 8 am

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 6/15/2000

SABINE RIVER AUTHORITY OF TEXAS

June 2000



Tidal Sabine Basin Sampled on 6/15/2000