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## SABINE RIVER AUTHORITY OF TEXAS

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

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This is the Sabine River Authority Water Quality Summary for February 2000. Water quality sampling was performed February 15 through February 17. Daytime high air temperatures during the seven days prior to the sampling dates were mostly in the 60's and 70's in the Upper Basin and in the 70's in the Lower Basin. Nighttime lows in the Upper Basin were in the 30's and 40's. Low temperatures in the Lower Basin have been mostly in the 50's and 60's. Dry conditions prevailed throughout the Basin and water quality was not affected by recent runoff events. The Lower Basin received from 0.16 inches of rainfall at Toledo Bend, to 0.38 inches in Orange, nine days prior to the sample run. The most recent precipitation upstream of Toledo Bend Reservoir was recorded 18 days prior to the sample run on January 28 when most of the in the Upper Basin received about an inch of sleet and snow.

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

For the February sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. The most recent precipitation was 1-2 inches of sleet and snow over most of the Upper Basin 18 days prior to sampling. Water temperature and dissolved oxygen profiles were similar from surface to bottom at Lake Tawakoni and Lake Fork indicating complete mixing, with no significant thermal stratification. Several sites on the river and one reservoir site (LF3) had dissolved oxygen values in excess of 100%, likely indicating algal activity is still fairly high. However, dissolved oxygen values in excess of 100% can sometimes be due to rapid warming of a water body. High chlorophyll *a* levels were seen at LT23A, LF7, and LF2. Mild temperatures were present during the sampling event but several days of sub-freezing weather with icy precipitation were encountered during the last week of January. Ammonia was slightly over screening criteria at SR14 and chlorides were at the upper limit of stream standards at SR14 and above stream standards at SR11.

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

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

February WQM sampling results were indicative of high water quality at most sites. Profiles taken at deep-water stations on the reservoir exhibited thermal stratification. Higher conductivity readings, total alkalinity, and chloride levels were observed at Station TB6N. TB6N is located downstream from a municipal wastewater treatment plant. Higher conductivity readings and sulfate levels were observed at Station BA4. 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. All values measured were within stream standards criteria. Salinity was detected at all four tidal stations: SRT1, SRT2, BB1 and ICW1. The greatest salinity readings were observed at the deepest depths at Stations SRT1 and SRT2. A salt-water wedge was not observed at tidal sites; profile readings taken were well mixed.

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:

- *Upper Sabine Basin*  
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PRINTED TUESDAY, SEPTEMBER 12, 2000

# SABINE RIVER AUTHORITY OF TEXAS

## Water Quality Monitoring Program

February 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<br>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                                     |

**SABINE RIVER AUTHORITY OF TEXAS**

Upper Sabine Basin Report

February 2000

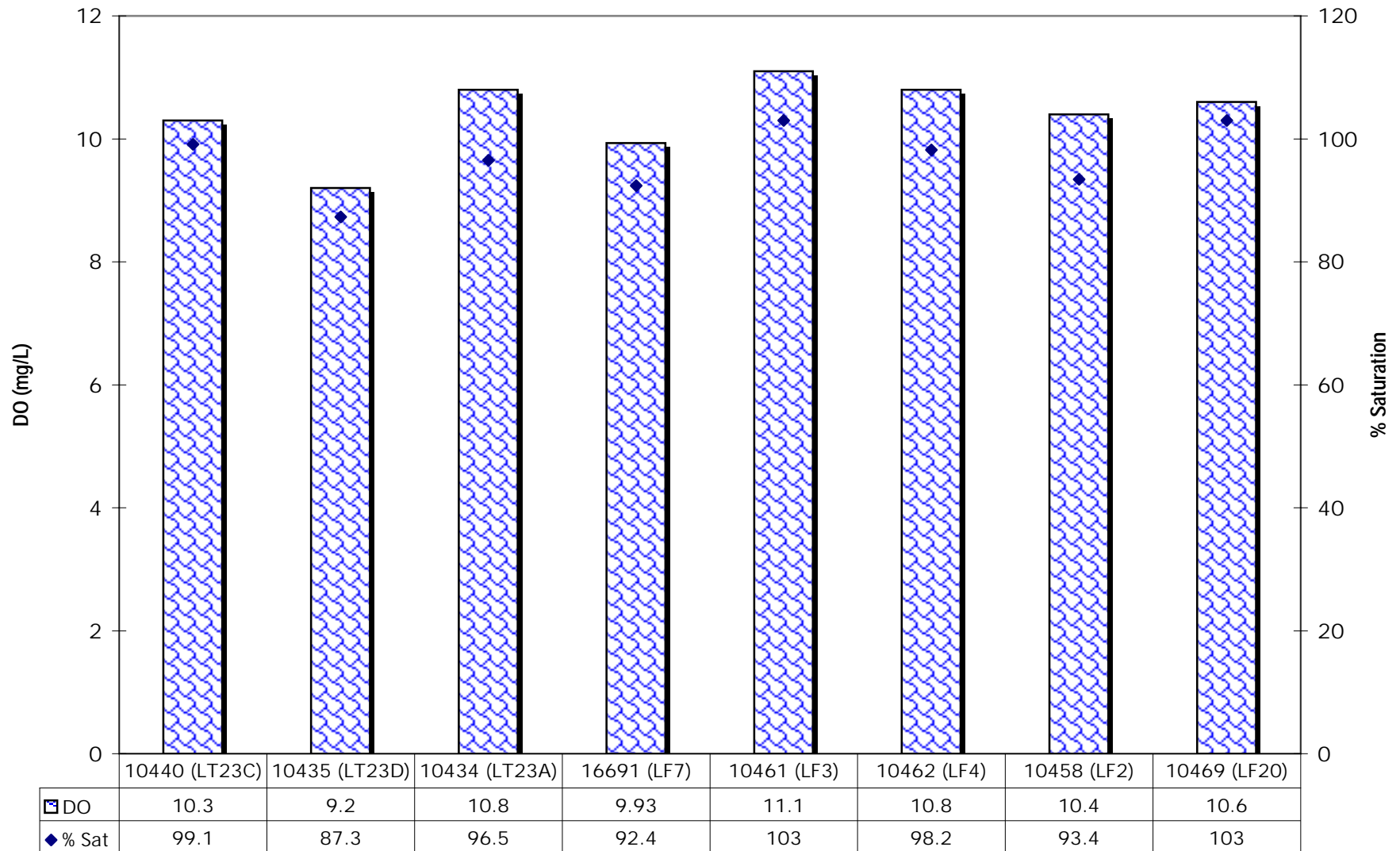
| Date             | SW ID | Station       | Temperature °C<br>00010 | pH Units<br>00400 | DO mg/L<br>00300 | % Saturation<br>00301 | Conductivity µS/cm<br>00094 | Salinity ppt<br>00480 | Secchi Meters<br>00078 | Turbidity NTU<br>82079 | Fecal Coliform<br>31616 | Fecal Strep<br>31673 | Chlorophyll a µg/L<br>32211 | Ammonia mg/L<br>00610 | Nitrate & Nitrite<br>00630 | Ortho-Phosphate<br>00671 | TOC mg/L<br>00680 | Total Alkalinity<br>00410 | Total Hardness<br>00900 | Chloride mg/L<br>00940 | Sulfate mg/L<br>00945 |
|------------------|-------|---------------|-------------------------|-------------------|------------------|-----------------------|-----------------------------|-----------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------------|-----------------------|----------------------------|--------------------------|-------------------|---------------------------|-------------------------|------------------------|-----------------------|
| 2/15/00 12:42 PM | 7.00  | 10440 (LT23C) | 13.5                    | 7.77              | 10.3             | 99.1                  | 214                         | *                     | 0.39                   | 24.6                   | 2                       | *                    | 19.2                        | < 0.001               | 0.06                       | < 0.02                   | 4                 | 78.2                      | 79                      | 5.8                    | 13.8                  |
| 2/15/00 12:00 PM | 7.00  | 10435 (LT23D) | 13                      | 7.61              | 9.2              | 87.3                  | 210                         | *                     | 0.47                   | 20.5                   | 2                       | *                    | 16                          | 0.083                 | 0.02                       | < 0.02                   | 4                 | 76.4                      | 77                      | 5.8                    | 14.1                  |
| 2/15/00 11:12 AM | 7.00  | 10434 (LT23A) | 10.3                    | 7.69              | 10.8             | 96.5                  | 205                         | *                     | 1.11                   | 4.94                   | < 2                     | *                    | 24                          | 0.096                 | 0.1                        | < 0.02                   | 4                 | 77.4                      | 69                      | 5.1                    | 11.4                  |
| 2/15/00 10:09 AM | 6.12  | 16691 (LF7)   | 12.1                    | 6.89              | 9.93             | 92.4                  | 170                         | *                     | 0.61                   | 7.77                   | 2                       | *                    | 33.6                        | < 0.001               | < 0.02                     | < 0.02                   | 5                 | 22.4                      | 36                      | 14.3                   | 25.4                  |
| 2/15/00 9:11 AM  | 6.12  | 10461 (LF3)   | 11.8                    | 7.04              | 11.1             | 103                   | 171                         | *                     | 1.28                   | 3.86                   | < 2                     | *                    | 20                          | < 0.001               | < 0.02                     | < 0.02                   | 5                 | 27.6                      | 36                      | 14.7                   | 21.4                  |
| 2/15/00 9:33 AM  | 6.12  | 10462 (LF4)   | 11.1                    | 7.12              | 10.8             | 98.2                  | 169                         | *                     | 1.33                   | 3.03                   | < 2                     | *                    | 10.4                        | < 0.001               | < 0.02                     | < 0.02                   | 5                 | 28                        | 32                      | 13.9                   | 21.5                  |
| 2/15/00 8:35 AM  | 6.12  | 10458 (LF2)   | 10.5                    | 6.7               | 10.4             | 93.4                  | 170                         | *                     | 1.44                   | 2.8                    | < 2                     | *                    | 28.8                        | < 0.001               | 0.24                       | < 0.02                   | 5                 | 30.3                      | 40                      | 13.9                   | 19.8                  |
| 2/15/00 2:10 PM  | 6.10  | 10469 (LF20)  | 14.2                    | 7.42              | 10.6             | 103                   | 205                         | *                     | 0.37                   | 32.8                   | 88                      | *                    | *                           | < 0.001               | 0.06                       | < 0.02                   | 4                 | 27.3                      | 44                      | 21.1                   | 24.7                  |
| 2/16/00 7:58 AM  | 6.02  | 10467 (BS18)  | 14.1                    | 7.3               | 9.24             | 89.9                  | 173                         | *                     | > 1.46                 | 5.12                   | 20                      | *                    | *                           | < 0.001               | 0.05                       | < 0.02                   | 3                 | 9.94                      | 28                      | 24.3                   | 20.3                  |
| 2/15/00 1:50 PM  | 6.00  | 10430 (SR21)  | 13.2                    | 7.45              | 9.39             | 89.7                  | 685                         | *                     | 0.36                   | 31.5                   | 42                      | *                    | *                           | < 0.001               | < 0.02                     | < 0.02                   | 4                 | 45.3                      | 121                     | 123                    | 83.4                  |
| 2/15/00 2:29 PM  | 6.00  | 10429 (SR19)  | 15.7                    | 7.65              | 11.5             | 113                   | 347                         | *                     | 0.36                   | 30.3                   | 10                      | *                    | *                           | < 0.001               | < 0.02                     | < 0.02                   | 4                 | 27.6                      | 61                      | 56.3                   | 37.2                  |
| 2/16/00 8:20 AM  | 5.00  | 10428 (SR17)  | 14.9                    | 7.22              | 9.74             | 96.4                  | 279                         | *                     | 0.48                   | 23.6                   | 33                      | *                    | *                           | *                     | < 0.02                     | < 0.02                   | *                 | 20.4                      | *                       | 44.3                   | 29.6                  |
| 2/16/00 8:42 AM  | 5.00  | 10427 (SR16)  | 14.8                    | 7.16              | 9.52             | 94.1                  | 317                         | *                     | 0.49                   | 20.3                   | 23                      | *                    | *                           | < 0.001               | < 0.02                     | < 0.02                   | 3                 | 18.8                      | 48                      | 57.3                   | 29                    |
| 2/16/00 8:58 AM  | 5.00  | 10426 (SR15)  | 14.8                    | 7.13              | 9.81             | 97                    | 350                         | *                     | 0.52                   | 18.8                   | 10                      | *                    | *                           | < 0.001               | < 0.02                     | < 0.02                   | 2                 | 19.5                      | 52                      | 67.3                   | 29.3                  |
| 2/16/00 9:19 AM  | 5.00  | 10423 (SR14)  | 15                      | 7.06              | 9.17             | 91.1                  | 402                         | *                     | 0.51                   | 25.3                   | 13                      | *                    | *                           | 0.823                 | 0.3                        | 0.07                     | 3                 | 26.6                      | 52                      | 75.5                   | 33                    |
| 2/16/00 10:01 AM | 5.00  | 13628 (SR11)  | 15.5                    | 7.98              | 11.5             | 116                   | 586                         | *                     | 0.5                    | 14.1                   | 20                      | *                    | *                           | < 0.001               | 0.26                       | < 0.02                   | 4                 | 45.3                      | 81                      | 103                    | 65.1                  |
| 2/16/00 10:31 AM | 5.00  | 10415 (SR10)  | 15.8                    | 8.47              | 12.4             | 125                   | 463                         | *                     | 0.49                   | 21.8                   | 3                       | *                    | *                           | < 0.001               | 0.08                       | < 0.02                   | 4                 | 42.7                      | 69                      | 71.4                   | 56.3                  |

\*: Not sampled on this run

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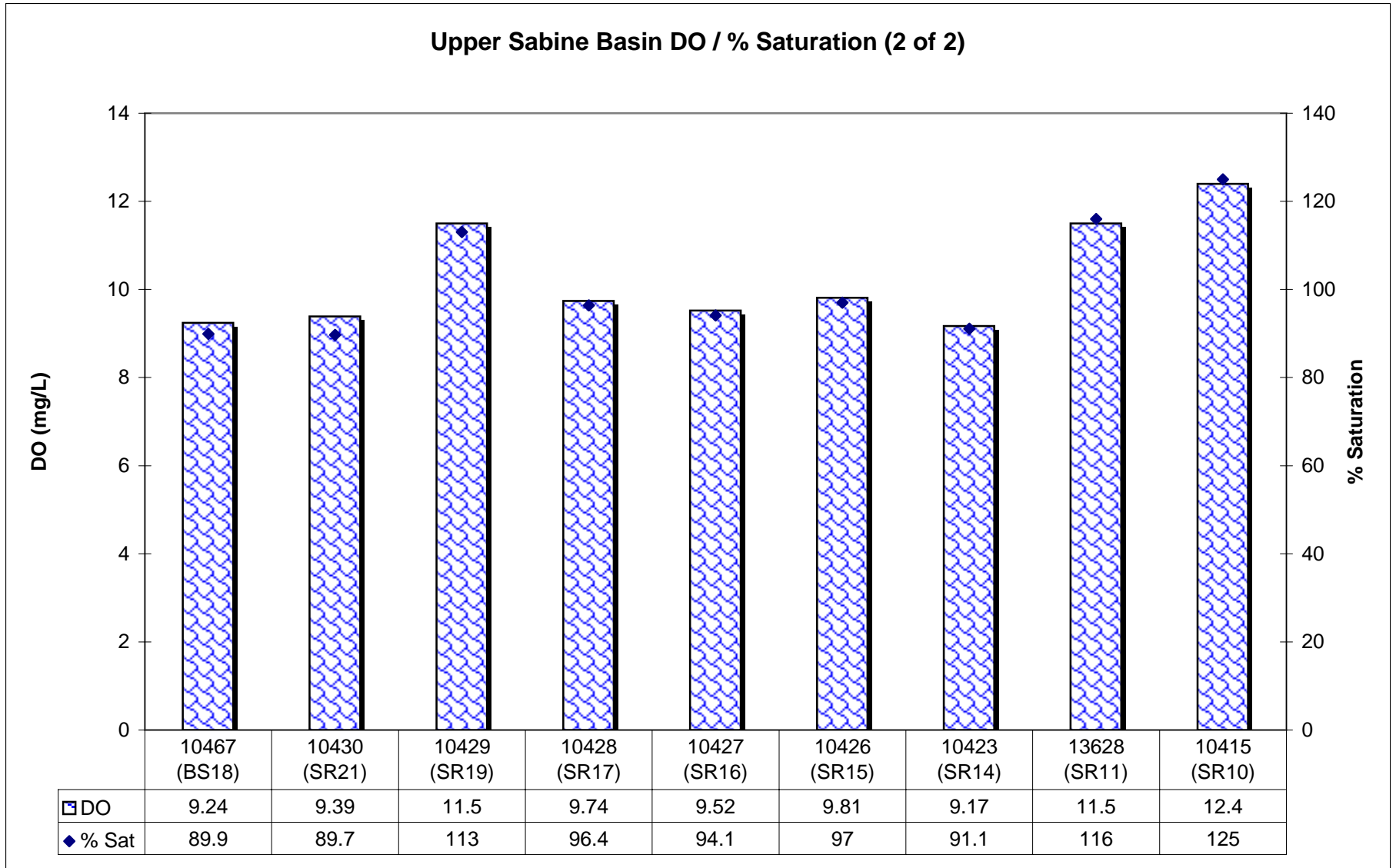
February 2000

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



# SABINE RIVER AUTHORITY OF TEXAS

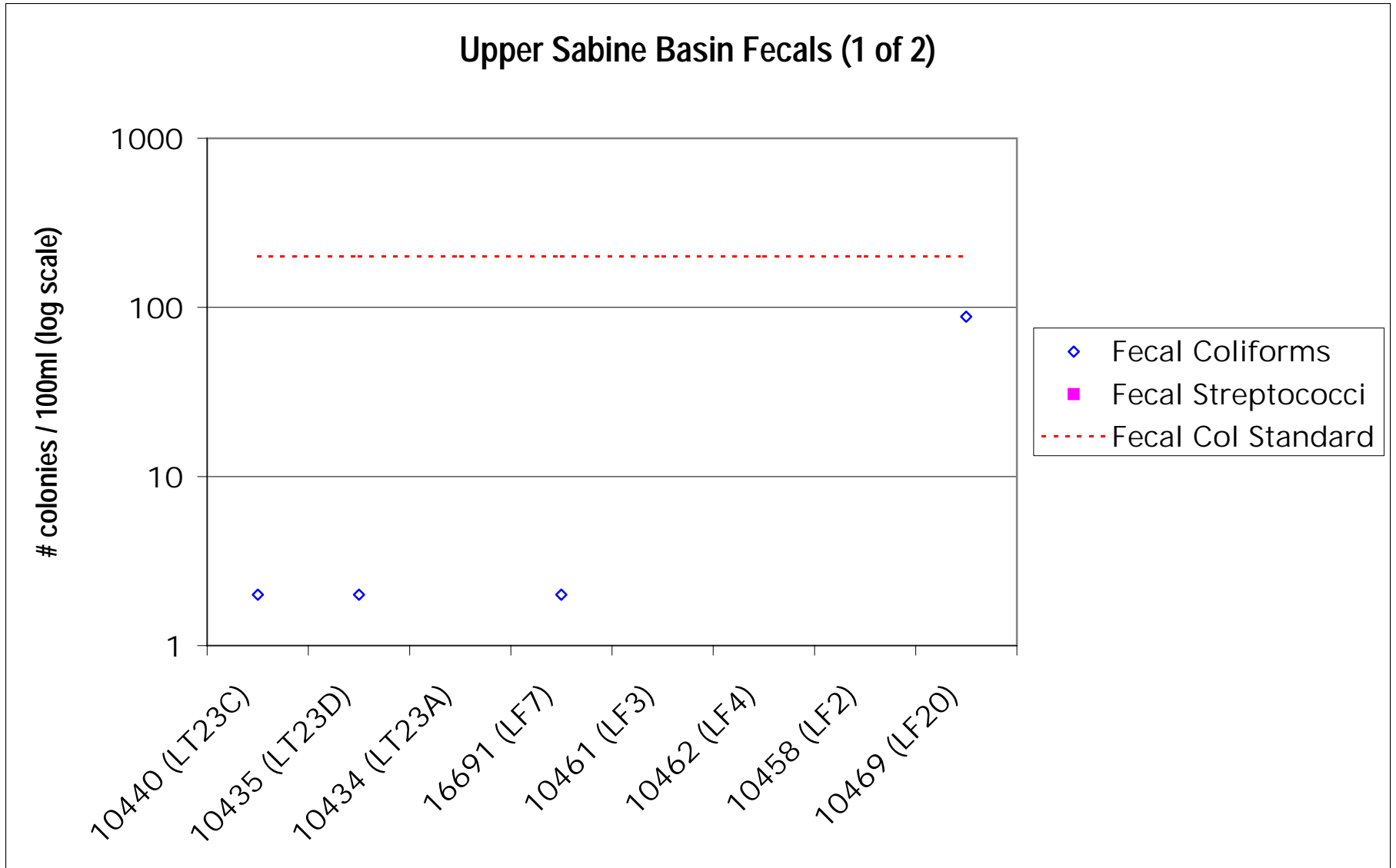
February 2000



Stations without values were not sampled on this run.

# SABINE RIVER AUTHORITY OF TEXAS

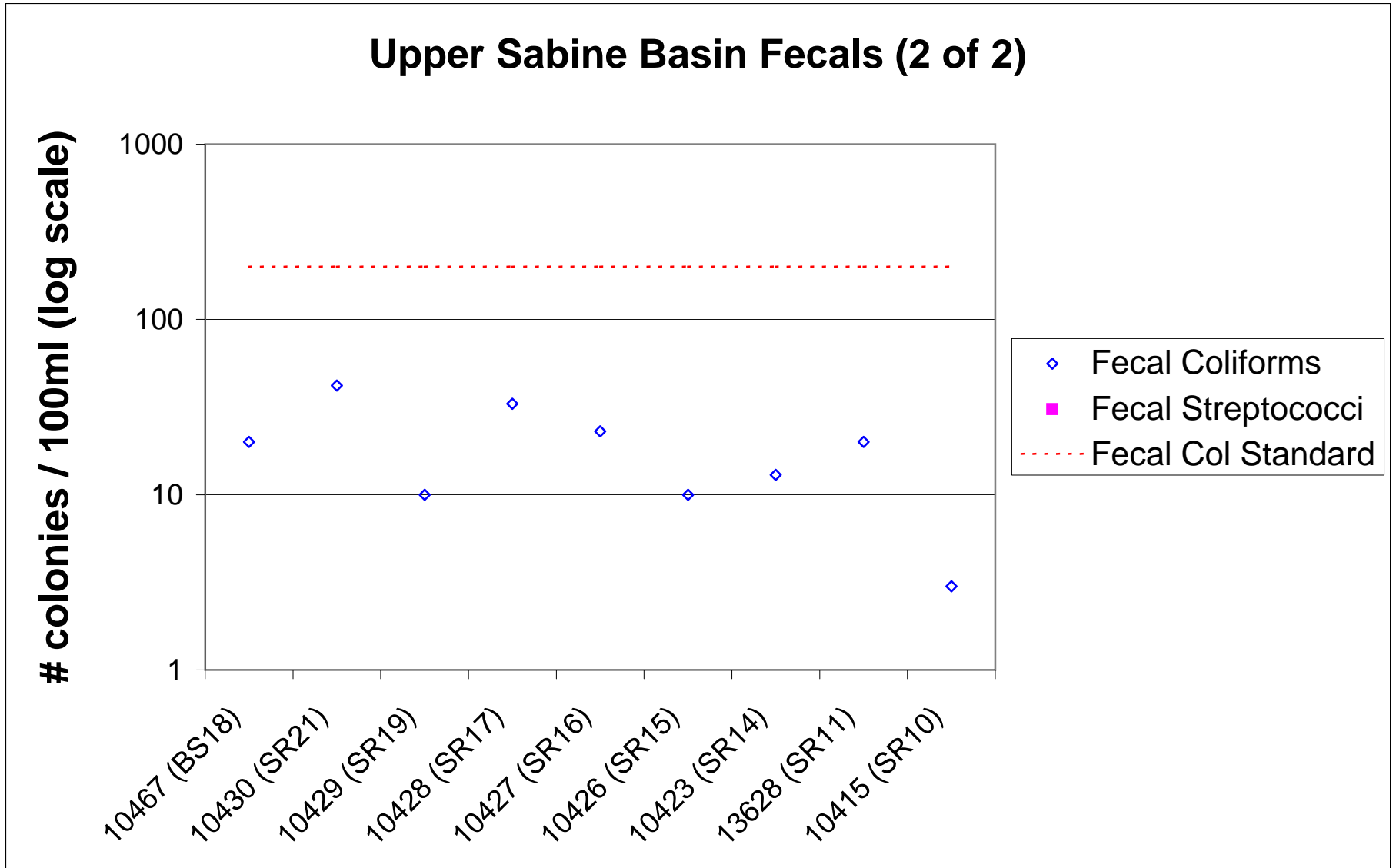
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

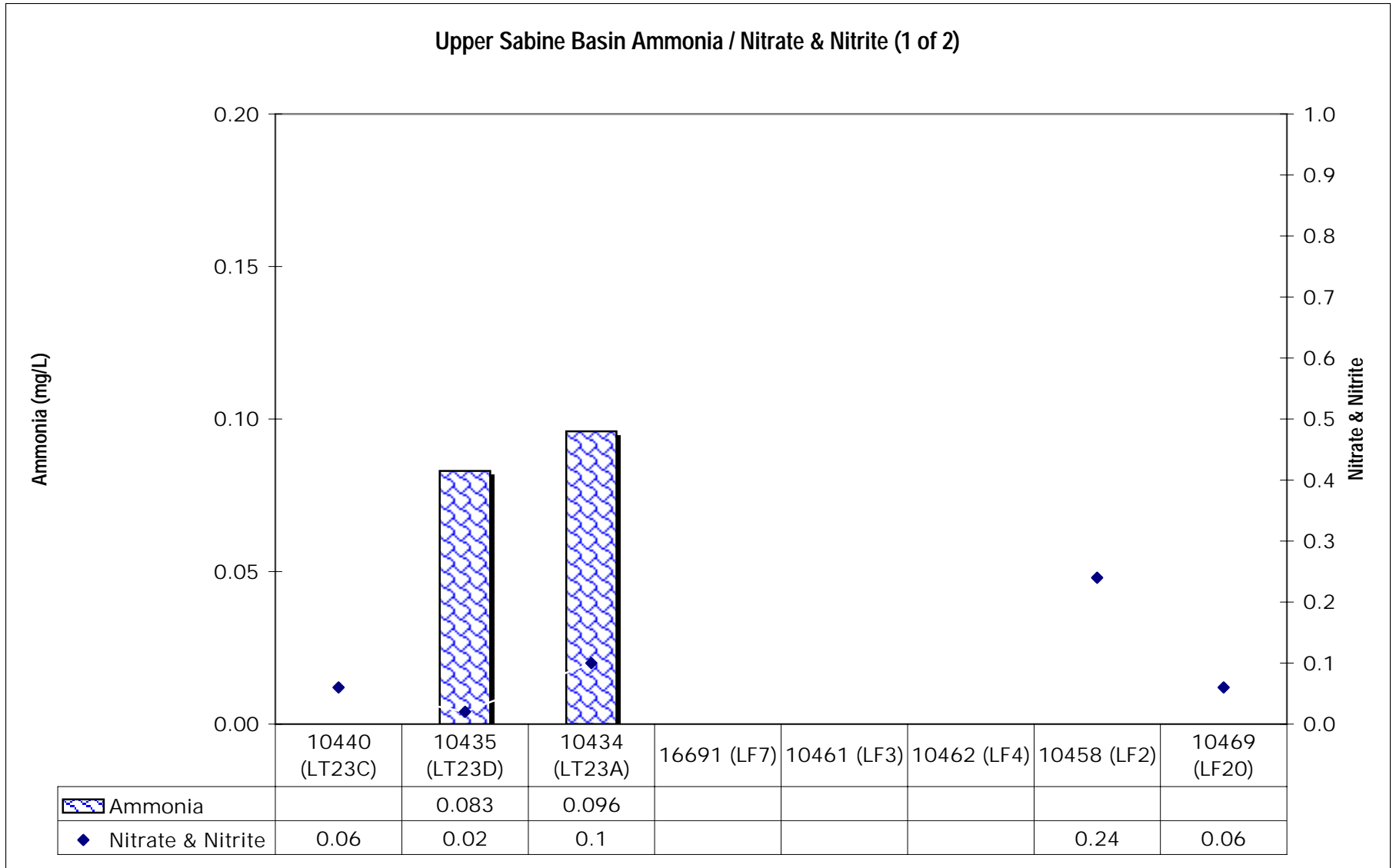
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

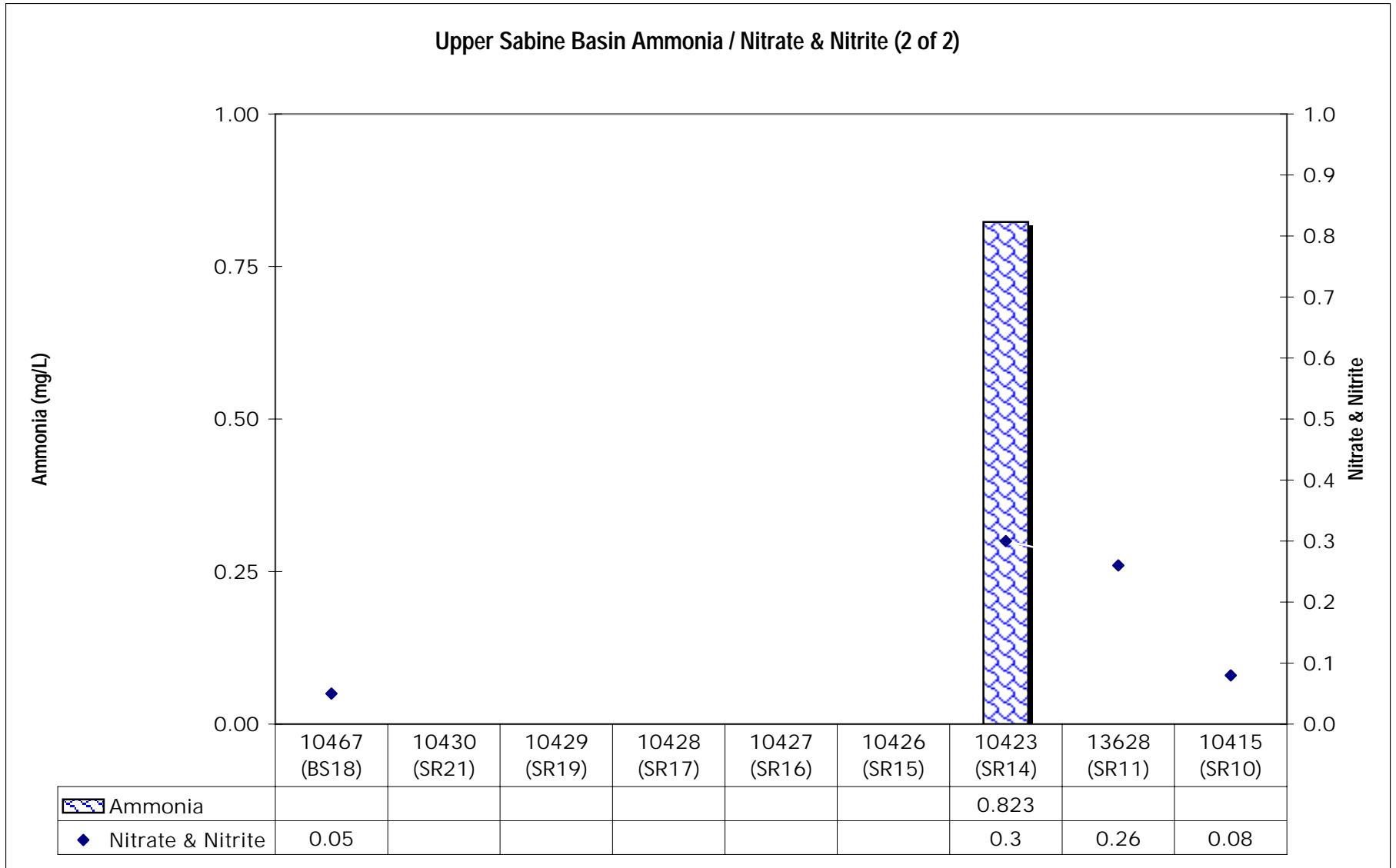
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



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

**SABINE RIVER AUTHORITY OF TEXAS**

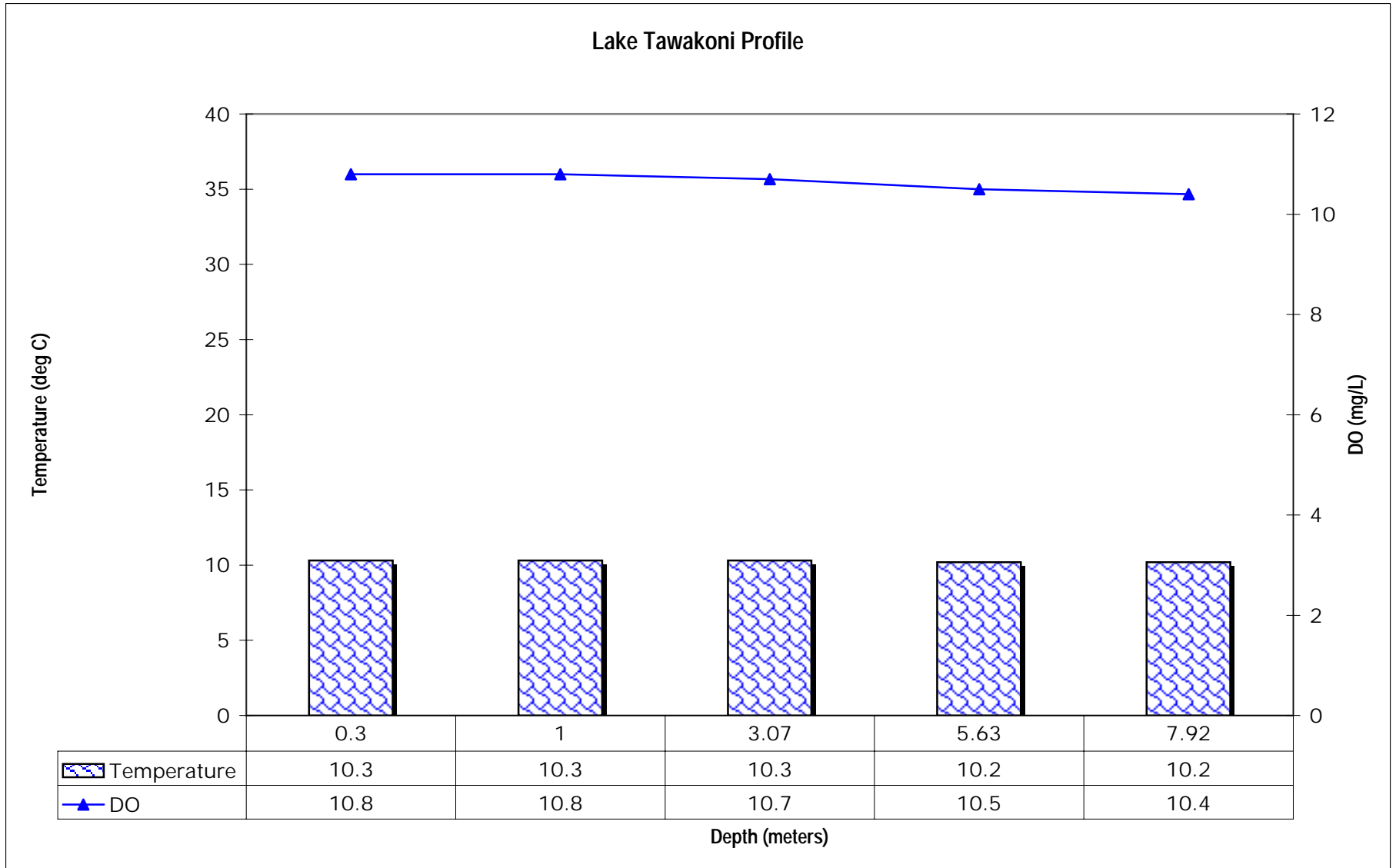
Upper Basin Profiles

February 2000

| Date             | SW ID | Station       | Depth Meters | Temperature °C<br>00010 | pH Units<br>00400 | DO mg/L<br>00300 | % Saturation<br>00301 | Conductivity µS/cm<br>00094 |
|------------------|-------|---------------|--------------|-------------------------|-------------------|------------------|-----------------------|-----------------------------|
| 2/15/00 12:42 PM | 7.00  | 10440 (LT23C) | 0.3          | 13.5                    | 7.77              | 10.3             | 99.1                  | 214                         |
|                  |       |               | 1.03         | 13                      | 7.78              | 10.2             | 96.6                  | 216                         |
|                  |       |               | 2.7          | 12.9                    | 7.78              | 9.91             | 93.9                  | 217                         |
| 2/15/00 12:00 PM | 7.00  | 10435 (LT23D) | 0.3          | 13                      | 7.61              | 9.2              | 87.3                  | 210                         |
|                  |       |               | 1.04         | 12.9                    | 7.59              | 9.21             | 87.3                  | 210                         |
|                  |       |               | 3.26         | 12.9                    | 7.54              | 9.17             | 86.9                  | 210                         |
|                  |       |               | 5.2          | 12.9                    | 7.51              | 9.08             | 86.2                  | 210                         |
|                  |       |               | 7.12         | 12.8                    | 7.59              | 9                | 85                    | 211                         |
| 2/15/00 11:12 AM | 7.00  | 10434 (LT23A) | 0.3          | 10.3                    | 7.69              | 10.8             | 96.5                  | 205                         |
|                  |       |               | 1            | 10.3                    | 7.63              | 10.8             | 96.4                  | 205                         |
|                  |       |               | 3.07         | 10.3                    | 7.48              | 10.7             | 95.3                  | 205                         |
|                  |       |               | 5.63         | 10.2                    | 7.36              | 10.5             | 93.4                  | 205                         |
|                  |       |               | 7.92         | 10.2                    | 7.19              | 10.4             | 92.4                  | 206                         |
| 2/15/00 10:09 AM | 6.12  | 16691 (LF7)   | 0.3          | 12.1                    | 6.89              | 9.93             | 92.4                  | 170                         |
|                  |       |               | 1            | 12.1                    | 6.84              | 9.9              | 92.1                  | 170                         |
|                  |       |               | 3.03         | 12                      | 6.78              | 9.79             | 91                    | 170                         |
|                  |       |               | 4.73         | 11.7                    | 6.92              | 8.99             | 82.8                  | 169                         |
| 2/15/00 9:11 AM  | 6.12  | 10461 (LF3)   | 0.3          | 11.8                    | 7.04              | 11.1             | 103                   | 171                         |
|                  |       |               | 1.05         | 11.8                    | 6.92              | 10.9             | 102                   | 171                         |
|                  |       |               | 3.84         | 11.7                    | 6.7               | 10.1             | 94                    | 172                         |
|                  |       |               | 6.03         | 11.3                    | 6.61              | 8.97             | 83.9                  | 173                         |
|                  |       |               | 7.3          | 11.1                    | 6.67              | 8.5              | 77.4                  | 172                         |
|                  |       |               | 8.86         | 10.9                    | 6.6               | 7.49             | 67.9                  | 173                         |
| 2/15/00 9:33 AM  | 6.12  | 10462 (LF4)   | 0.3          | 11.1                    | 7.12              | 10.8             | 98.2                  | 169                         |
|                  |       |               | 1.04         | 11.1                    | 7.13              | 10.8             | 97.9                  | 169                         |
|                  |       |               | 3.01         | 11.1                    | 7.07              | 10.7             | 97.3                  | 169                         |
|                  |       |               | 6.03         | 11.1                    | 6.87              | 10.4             | 94.9                  | 169                         |
|                  |       |               | 8.09         | 11                      | 6.82              | 10.2             | 92.1                  | 169                         |
|                  |       |               | 9.01         | 10.8                    | 6.76              | 9.6              | 86.7                  | 169                         |
|                  |       |               | 10.3         | 10.8                    | 6.61              | 7.33             | 66                    | 174                         |
| 02/15/2000 8:35  | 6.12  | 10458 (LF2)   | 0.3          | 10.5                    | 6.7               | 10.4             | 93.4                  | 170                         |
|                  |       |               | 1            | 10.5                    | 6.69              | 10.4             | 93.4                  | 171                         |
|                  |       |               | 6            | 10.4                    | 6.73              | 10.3             | 92.2                  | 172                         |
|                  |       |               | 9.68         | 10.4                    | 6.7               | 10.2             | 90.8                  | 173                         |
|                  |       |               | 11.8         | 10.3                    | 6.57              | 10               | 89.4                  | 173                         |

# SABINE RIVER AUTHORITY OF TEXAS

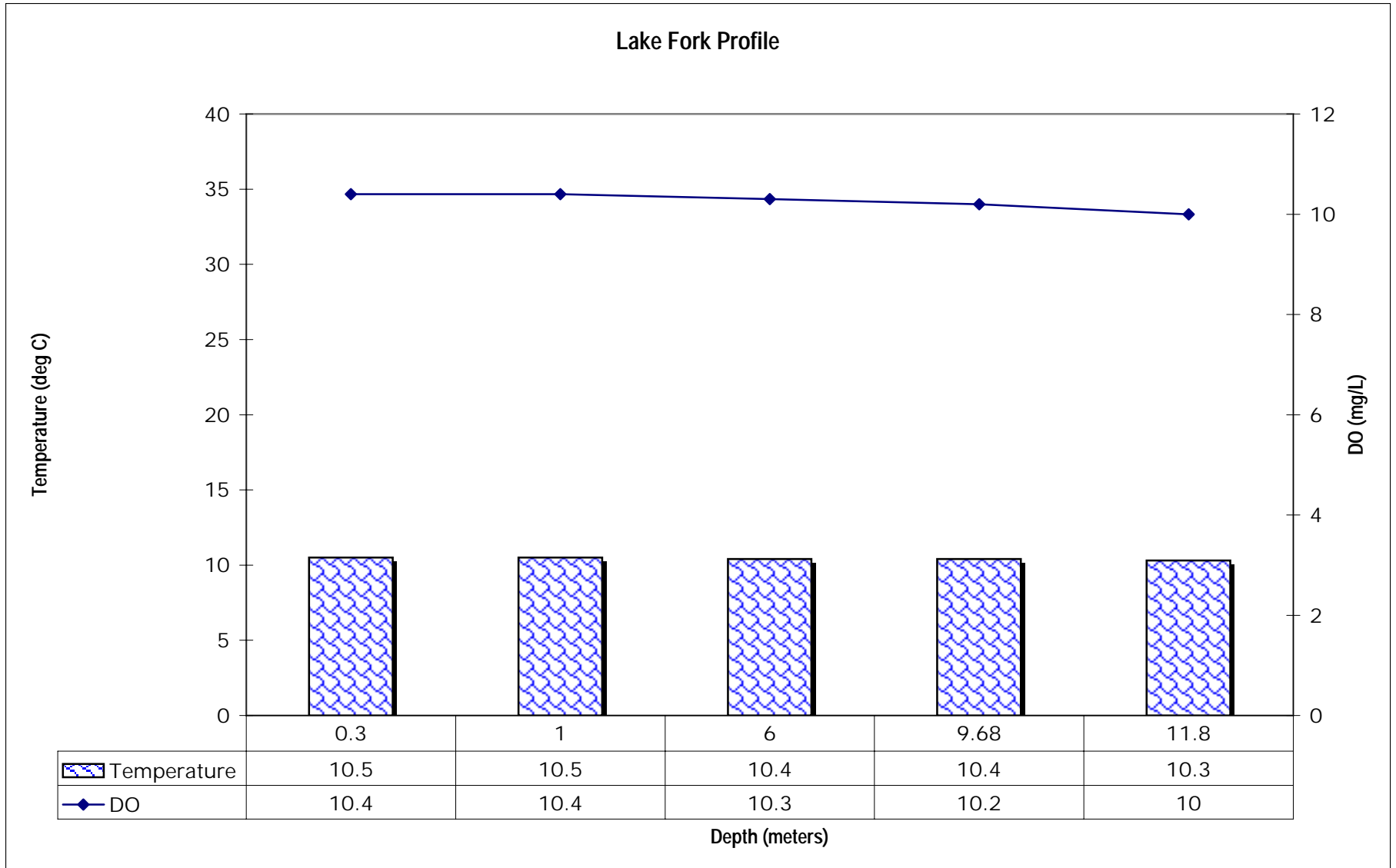
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Lake Tawakoni Weather and Reservoir Data

February 2000

| Date              | Lake Elev | LE - TOP | Releases inst | Max Temp | Min Temp | Rainfall | Evap |
|-------------------|-----------|----------|---------------|----------|----------|----------|------|
| 02/01/2000        | 431.79    | (5.71)   | 5             | 50       | 26       | 0.00     | NR   |
| 02/02/2000        | 431.68    | (5.82)   | 5             | 56       | 26       | 0.00     | NR   |
| 02/03/2000        | 431.62    | (5.88)   | 5             | 53       | 32       | 0.00     | NR   |
| 02/04/2000        | 431.64    | (5.86)   | 5             | 68       | 34       | 0.00     | NR   |
| 02/05/2000        | 431.69    | (5.81)   | 5             | 52       | 28       | 0.00     | NR   |
| 02/06/2000        | 431.66    | (5.84)   | 5             | 50       | 26       | 0.00     | NR   |
| 02/07/2000        | 431.67    | (5.83)   | 5             | 63       | 49       | 0.00     | NR   |
| 02/08/2000        | 431.67    | (5.83)   | 5             | 63       | 39       | 0.00     | NR   |
| 02/09/2000        | 431.64    | (5.86)   | 5             | 67       | 40       | 0.00     | NR   |
| 02/10/2000        | 431.62    | (5.88)   | 5             | 72       | 44       | 0.00     | NR   |
| 02/11/2000        | 431.63    | (5.87)   | 5             | 76       | 53       | 0.00     | NR   |
| 02/12/2000        | 431.60    | (5.90)   | 5             | 60       | 38       | 0.00     | NR   |
| 02/13/2000        | 431.57    | (5.93)   | 5             | 65       | 42       | 0.00     | NR   |
| 02/14/2000        | 431.58    | (5.92)   | 5             | 74       | 36       | 0.00     | NR   |
| 02/15/2000        | 431.52    | (5.98)   | 5             | 71       | 39       | 0.00     | NR   |
| 02/16/2000        | 431.42    | (6.08)   | 5             | 77       | 48       | 0.00     | NR   |
| 02/17/2000        | 431.40    | (6.10)   | 5             | 78       | 61       | 0.04     | NR   |
| 02/18/2000        | 431.39    | (6.11)   | 5             | 81       | 61       | 0.03     | NR   |
| 02/19/2000        | 431.38    | (6.12)   | 5             | 71       | 29       | 0.00     | NR   |
| 02/20/2000        | 431.34    | (6.16)   | 5             | 56       | 30       | 0.00     | NR   |
| 02/21/2000        | 431.30    | (6.20)   | 5             | 67       | 44       | 0.00     | NR   |
| 02/22/2000        | 431.28    | (6.22)   | 5             | 76       | 54       | 0.00     | NR   |
| 02/23/2000        | 431.30    | (6.20)   | 5             | 76       | 55       | 0.76     | NR   |
| 02/24/2000        | 431.29    | (6.21)   | 5             | 74       | 64       | 0.00     | NR   |
| 02/25/2000        | 431.26    | (6.24)   | 5             | 78       | 56       | 0.00     | NR   |
| 02/26/2000        | 431.46    | (6.04)   | 5             | 72       | 44       | 2.08     | NR   |
| 02/27/2000        | 431.55    | (5.95)   | 5             | 66       | 37       | 0.04     | NR   |
| 02/28/2000        | 431.59    | (5.91)   | 5             | 72       | 38       | 0.00     | NR   |
| 02/29/2000        | 431.58    | (5.92)   | 5             | 74       | 40       | 0.00     | NR   |
| <b>Avg or Tot</b> | 431.52    | (5.98)   | 5             | 68       | 42       | 2.95     | NR   |

|       |                    |             |   |              |              |               |               |
|-------|--------------------|-------------|---|--------------|--------------|---------------|---------------|
| Units | Avg<br>Feet M.S.L. | Avg<br>Feet | Avg<br>cfs<br>Instantaneous<br>appx. 8 a.m. | Avg<br>Deg F | Avg<br>Deg F | Tot<br>Inches | Tot<br>Inches |
|-------|--------------------|-------------|---|--------------|--------------|---------------|---------------|

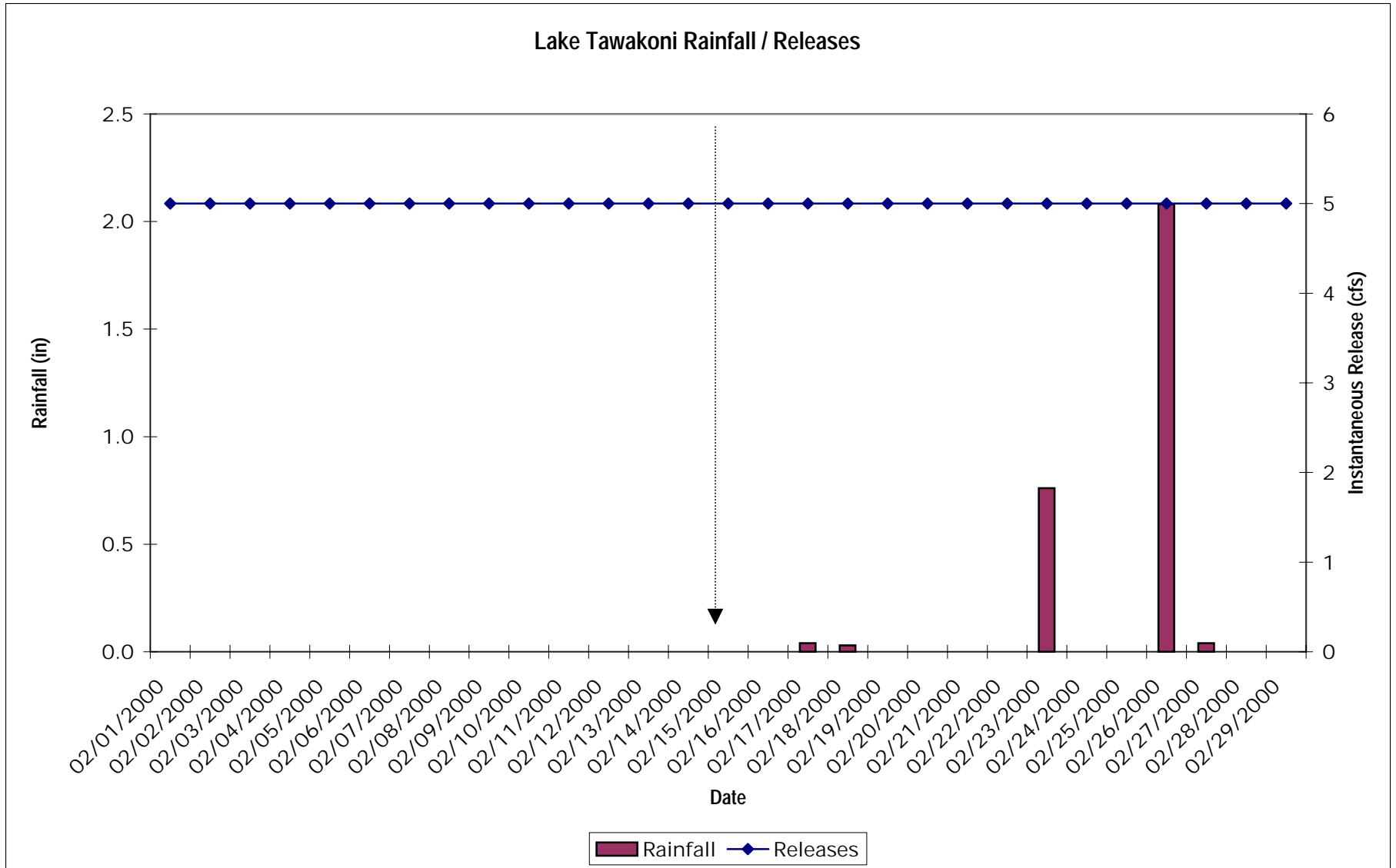
NR: No Reading

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

Lake Tawakoni Sampled on 2/15/2000

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



Please Note : Lake Tawakoni has an uncontrolled spillway.

# SABINE RIVER AUTHORITY OF TEXAS

## Lake Fork Weather and Reservoir Data

February 2000

| Date              | Lake Elev | LE - TOP | Releases avg | Releases cur | Max Temp | Min Temp | Rainfall | Evap |
|-------------------|-----------|----------|--------------|--------------|----------|----------|----------|------|
| 02/01/2000        | 399.69    | (3.31)   | 48           | 48           | 51       | 37       | 0.00     | 0.00 |
| 02/02/2000        | 399.69    | (3.31)   | 48           | 48           | 58       | 30       | 0.00     | 0.17 |
| 02/03/2000        | 399.69    | (3.31)   | 48           | 48           | 53       | 32       | 0.00     | 0.06 |
| 02/04/2000        | 399.69    | (3.31)   | 48           | 48           | 67       | 40       | 0.00     | 0.08 |
| 02/05/2000        | 399.69    | (3.31)   | 48           | 48           | 52       | 23       | 0.00     | 0.13 |
| 02/06/2000        | 399.64    | (3.36)   | 48           | 48           | 51       | 27       | 0.00     | 0.02 |
| 02/07/2000        | 399.64    | (3.36)   | 48           | 48           | 63       | 35       | 0.00     | 0.08 |
| 02/08/2000        | 399.64    | (3.36)   | 48           | 48           | 62       | 43       | 0.00     | 0.09 |
| 02/09/2000        | 399.64    | (3.36)   | 48           | 48           | 65       | 44       | 0.00     | 0.09 |
| 02/10/2000        | 399.64    | (3.36)   | 48           | 48           | 72       | 46       | 0.00     | 0.19 |
| 02/11/2000        | 399.64    | (3.36)   | 48           | 48           | 74       | 50       | 0.00     | 0.19 |
| 02/12/2000        | 399.64    | (3.36)   | 48           | 48           | 62       | 44       | 0.00     | 0.10 |
| 02/13/2000        | 399.59    | (3.41)   | 48           | 48           | 66       | 44       | 0.00     | 0.11 |
| 02/14/2000        | 399.64    | (3.36)   | 48           | 48           | 73       | 40       | 0.00     | 0.28 |
| 02/15/2000        | 399.55    | (3.45)   | 48           | 48           | 60       | 40       | 0.00     | 0.19 |
| 02/16/2000        | 399.59    | (3.41)   | 48           | 48           | 76       | 51       | 0.00     | 0.10 |
| 02/17/2000        | 399.59    | (3.41)   | 48           | 48           | 77       | 60       | 0.00     | 0.02 |
| 02/18/2000        | 399.59    | (3.41)   | 48           | 48           | 80       | 60       | 0.02     | 0.15 |
| 02/19/2000        | 399.61    | (3.39)   | 48           | 48           | 80       | 36       | 0.00     | 0.21 |
| 02/20/2000        | 399.59    | (3.41)   | 48           | 48           | 55       | 35       | 0.00     | 0.08 |
| 02/21/2000        | 399.54    | (3.46)   | 48           | 48           | 66       | 40       | 0.00     | 0.02 |
| 02/22/2000        | 399.54    | (3.46)   | 48           | 48           | 74       | 50       | 0.00     | 0.21 |
| 02/23/2000        | 399.54    | (3.46)   | 48           | 48           | 74       | 57       | 0.32     | 0.00 |
| 02/24/2000        | 399.59    | (3.41)   | 48           | 48           | 74       | 58       | 0.00     | 0.30 |
| 02/25/2000        | 399.59    | (3.41)   | 48           | 48           | 76       | 65       | 0.00     | 0.35 |
| 02/26/2000        | 399.74    | (3.26)   | 48           | 48           | 74       | 52       | 1.54     | 0.00 |
| 02/27/2000        | 399.84    | (3.16)   | 48           | 48           | 73       | 38       | 0.07     | 0.14 |
| 02/28/2000        | 399.84    | (3.16)   | 48           | 48           | 55       | 43       | 0.06     | 0.23 |
| 02/29/2000        | 399.84    | (3.16)   | 48           | 48           | 73       | 49       | 0.00     | 0.30 |
| <b>Avg or Tot</b> | 399.65    | (3.35)   | 48           | 48           | 67       | 44       | 2.01     | 3.89 |

|       |                 |          |                               |     |           |           |            |            |
|-------|-----------------|----------|-------------------------------|-----|-----------|-----------|------------|------------|
| Units | Avg Feet M.S.L. | Avg Feet | Avg cfs<br>Previous<br>24 hrs | cfs | Avg Deg F | Avg Deg F | Tot Inches | Tot Inches |
|-------|-----------------|----------|-------------------------------|-----|-----------|-----------|------------|------------|

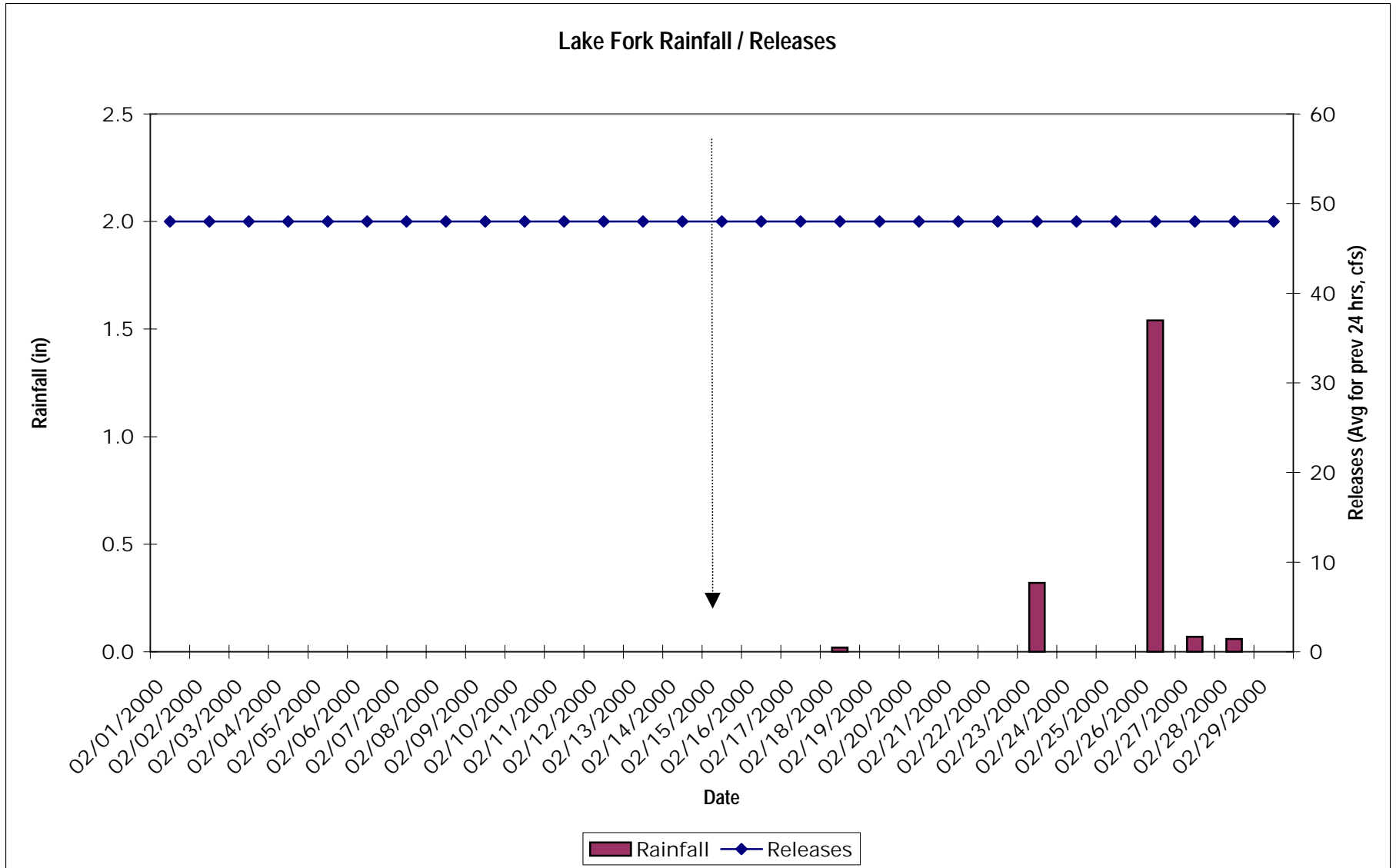
TOP: Top of Pool = 403 Feet M.S.L.

FRZN: Gauge Frozen

Lake Fork Sampled on 2/15/2000

# SABINE RIVER AUTHORITY OF TEXAS

February 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<br>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

February 2000

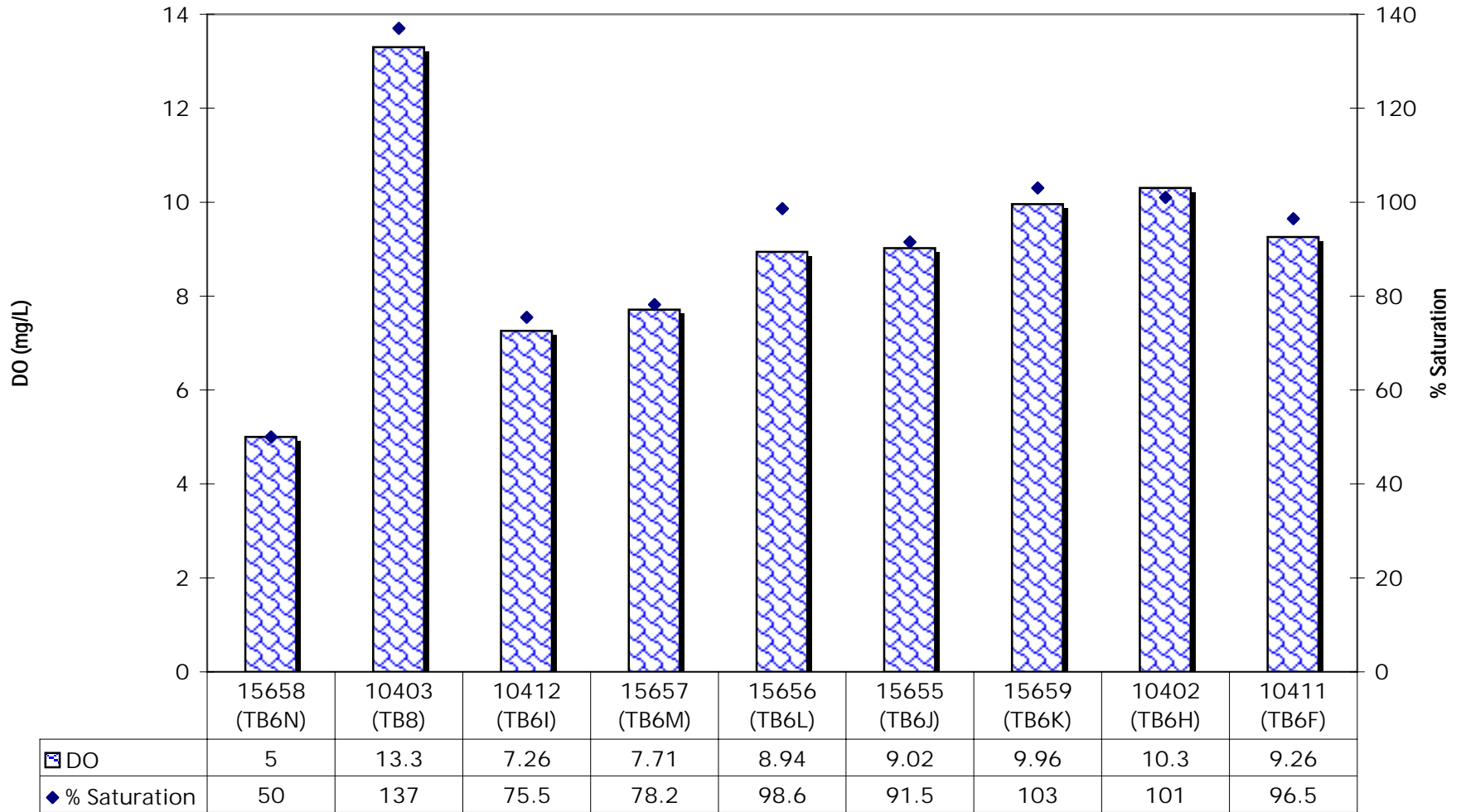
| Date             | SW ID | Station       | Temperature °C<br>00010 | pH Units<br>00400 | DO mg/L<br>00300 | % Saturation<br>00301 | Conductivity µS/cm<br>00094 | Salinity ppt<br>00480 | Secchi Meters<br>00078 | Turbidity NTU<br>82079 | Fecal Coliform<br>31616 | Fecal Strep<br>31673 | Chlorophyll a µg/L<br>32211 | Ammonia mg/L<br>00610 | Nitrate & Nitrite<br>00630 | Ortho-Phosphate<br>00671 | TOC mg/L<br>00680 | Total Alkalinity<br>00410 | Total Hardness<br>00900 | Chloride mg/L<br>00940 | Sulfate mg/L<br>00945 |
|------------------|-------|---------------|-------------------------|-------------------|------------------|-----------------------|-----------------------------|-----------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------------|-----------------------|----------------------------|--------------------------|-------------------|---------------------------|-------------------------|------------------------|-----------------------|
| 2/16/00 12:30 PM | 4.10  | 15658 (TB6N)  | 14.3                    | 7.64              | 5                | 50                    | 1496                        | *                     | 0.33                   | 17.3                   | 88                      | 3                    | *                           | *                     | 0.11                       | 10.8                     | 31                | 537                       | 48                      | 128                    | 19.5                  |
| 2/16/00 11:02 AM | 4.00  | 10403 (TB8)   | 16.7                    | 8.37              | 13.3             | 137                   | 406                         | *                     | 0.55                   | 19.3                   | 27                      | *                    | 57.7                        | *                     | 0.03                       | < 0.02                   | 4                 | 38.5                      | 63                      | 63.5                   | 45.3                  |
| 2/16/00 11:32 AM | 4.00  | 10412 (TB6I)  | 17.2                    | 7.17              | 7.26             | 75.5                  | 416                         | *                     | 0.69                   | 12.5                   | 23                      | *                    | *                           | 0.108                 | 4.91                       | 3.15                     | 5                 | 55.1                      | 57                      | 42.8                   | 47.1                  |
| 2/16/00 12:58 PM | 4.00  | 15657 (TB6M)  | 16.4                    | 6.8               | 7.71             | 78.2                  | 286                         | *                     | 0.76                   | 7.01                   | 4                       | *                    | *                           | *                     | < 0.02                     | < 0.02                   | 5                 | 22.2                      | 48                      | 26.4                   | 58.9                  |
| 2/16/00 12:42 PM | 4.00  | 15656 (TB6L)  | 20                      | 7.83              | 8.94             | 98.6                  | 216                         | *                     | 0.39                   | 30.9                   | 24                      | *                    | *                           | *                     | 0.02                       | < 0.02                   | 10                | 40.4                      | 32                      | 24.6                   | 22                    |
| 2/16/00 10:23 AM | 4.00  | 15655 (TB6J)  | 16.1                    | 7.6               | 9.02             | 91.5                  | 179                         | *                     | 0.72                   | 10.5                   | 2                       | *                    | *                           | *                     | < 0.02                     | < 0.02                   | 5                 | 30.1                      | < 5                     | 17.7                   | 22.4                  |
| 2/16/00 12:10 PM | 4.00  | 15659 (TB6K)  | 17                      | 7.2               | 9.96             | 103                   | 164                         | *                     | 0.81                   | 6.13                   | < 2                     | *                    | *                           | *                     | < 0.02                     | < 0.02                   | 5                 | 22.1                      | *                       | 17                     | 22.1                  |
| 2/16/00 11:11 AM | 4.00  | 10402 (TB6H)  | 14.2                    | 7.39              | 10.3             | 101                   | 171                         | *                     | 1.92                   | 3.38                   | < 2                     | *                    | 4                           | *                     | < 0.02                     | < 0.02                   | 6                 | 34.4                      | *                       | 17.2                   | 16                    |
| 2/16/00 10:49 AM | 4.00  | 10411 (TB6F)  | 16.8                    | 7.15              | 9.26             | 96.5                  | 144                         | *                     | 1.15                   | 6                      | < 2                     | *                    | *                           | *                     | 0.06                       | < 0.02                   | 5                 | 23.4                      | 32                      | 13.3                   | 18.5                  |
| 2/16/00 9:45 AM  | 4.00  | 10407 (TB6CN) | 16.7                    | 7.11              | 8.95             | 92.5                  | 132                         | *                     | 0.8                    | 11.7                   | < 2                     | *                    | *                           | *                     | < 0.02                     | < 0.02                   | 5                 | 16.3                      | 24                      | 12.9                   | 19.2                  |
| 2/16/00 10:07 AM | 4.00  | 10404 (TB6A)  | 13.5                    | 7.46              | 10.1             | 96                    | 130                         | *                     | 2.4                    | 0.76                   | < 2                     | *                    | 8                           | *                     | 0.05                       | < 0.02                   | 5                 | 22.9                      | 30                      | 12.2                   | 14.7                  |
| 2/16/00 12:30 PM | 3.03  | 10340 (BA4)   | 19.5                    | 7.29              | 8.16             | 89                    | 727                         | *                     | 0.4                    | 19.6                   | 104                     | 57                   | *                           | *                     | 0.47                       | 0.08                     | 10                | 65.4                      | 44                      | 68                     | 160                   |
| 2/16/00 10:50 AM | 3.00  | 10401 (TB6S)  | 11.9                    | 7.33              | 10.9             | 100                   | 140                         | *                     | > 1.4                  | 2.72                   | < 2                     | *                    | 100                         | *                     | 0.07                       | < 0.02                   | 6                 | 22.1                      | 28                      | 12.4                   | 15.3                  |
| 2/16/00 11:07 AM | 3.00  | 10400 (TB6)   | 12.2                    | 7.2               | 10.1             | 94.3                  | 134                         | *                     | *                      | 0.72                   | 2                       | *                    | *                           | *                     | 0.06                       | < 0.02                   | 5                 | 23.2                      | 28                      | 13.3                   | 15                    |
| 2/16/00 11:45 AM | 3.00  | 10399 (SR5)   | 14.9                    | 7.16              | 9.74             | 96.5                  | 132                         | *                     | > 1.4                  | 3.06                   | 7                       | *                    | *                           | *                     | 0.04                       | < 0.02                   | 5                 | 23.6                      | 32                      | 11.8                   | 14.1                  |
| 2/16/00 1:30 PM  | 3.00  | 10398 (SR3)   | 18.4                    | 7.22              | 9.07             | 96.7                  | 155                         | *                     | 1.07                   | 6.42                   | 13                      | *                    | *                           | *                     | 0.06                       | < 0.02                   | 4                 | 24.9                      | 28                      | 14.2                   | 20.8                  |
| 2/16/00 2:15 PM  | 2.05  | 10465 (BCC1)  | 18.6                    | 6.64              | 9.08             | 97.1                  | 48                          | *                     | > 0.9                  | 10.1                   | 84                      | *                    | *                           | *                     | 0.06                       | < 0.02                   | 2                 | 9.49                      | 8                       | 5.7                    | 1.8                   |
| 2/16/00 2:50 PM  | 2.00  | 10397 (SR2)   | 19.4                    | 7.18              | 8.58             | 93.3                  | 141                         | *                     | 0.79                   | 12.8                   | 20                      | *                    | *                           | *                     | 0.08                       | < 0.02                   | 4                 | 23.8                      | 24                      | 13.8                   | 17.6                  |

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

February 2000

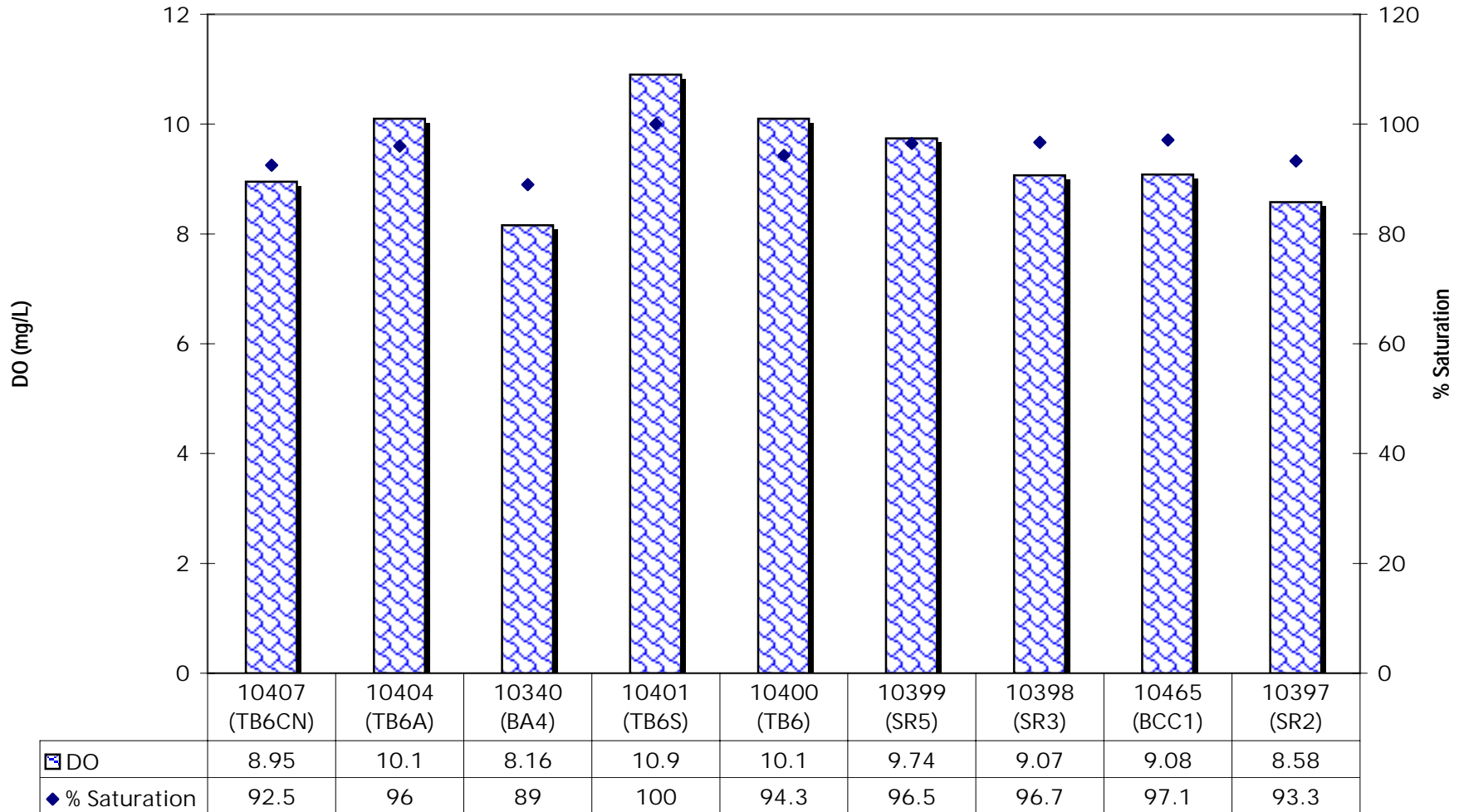
Lower Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

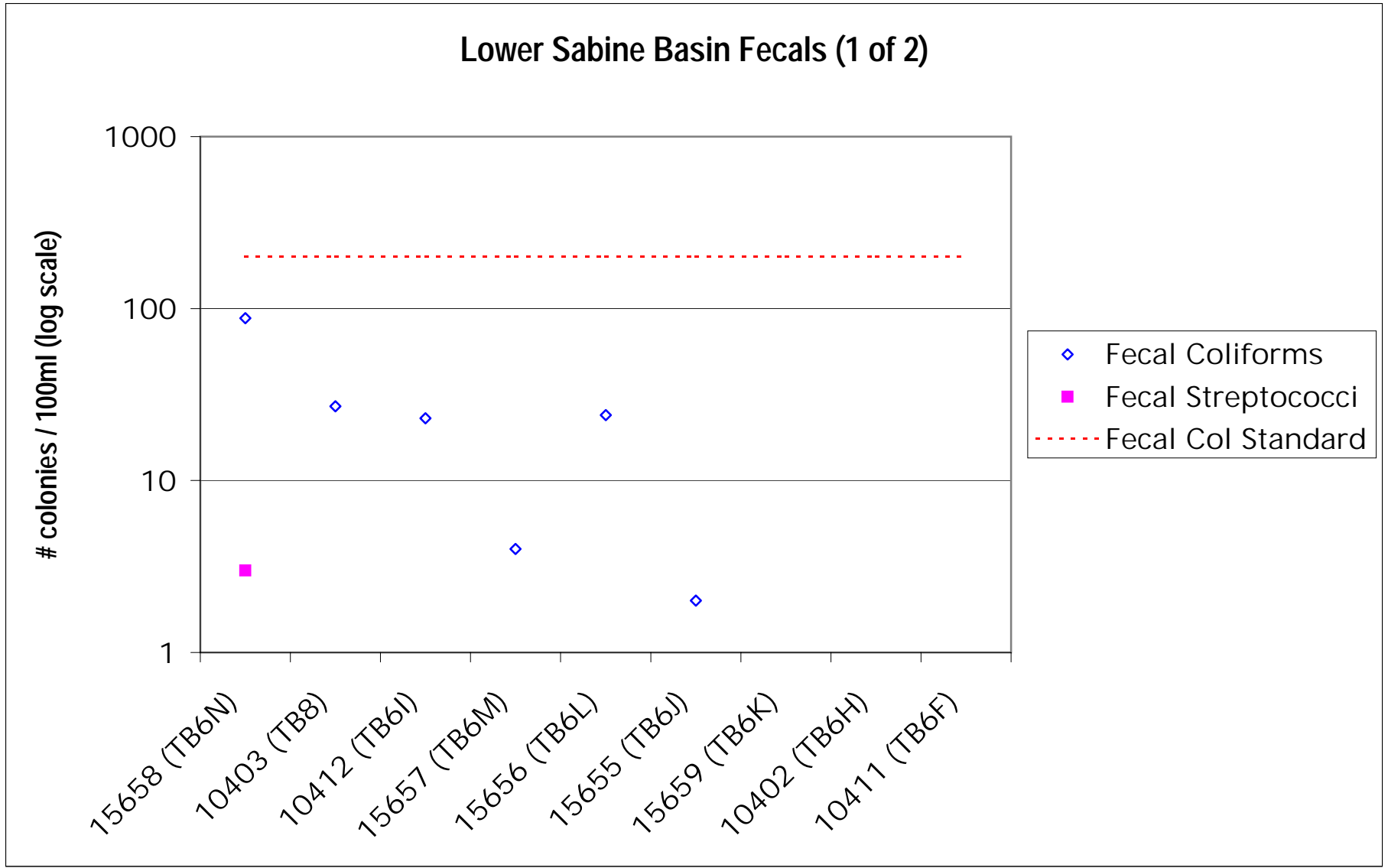
February 2000

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



# SABINE RIVER AUTHORITY OF TEXAS

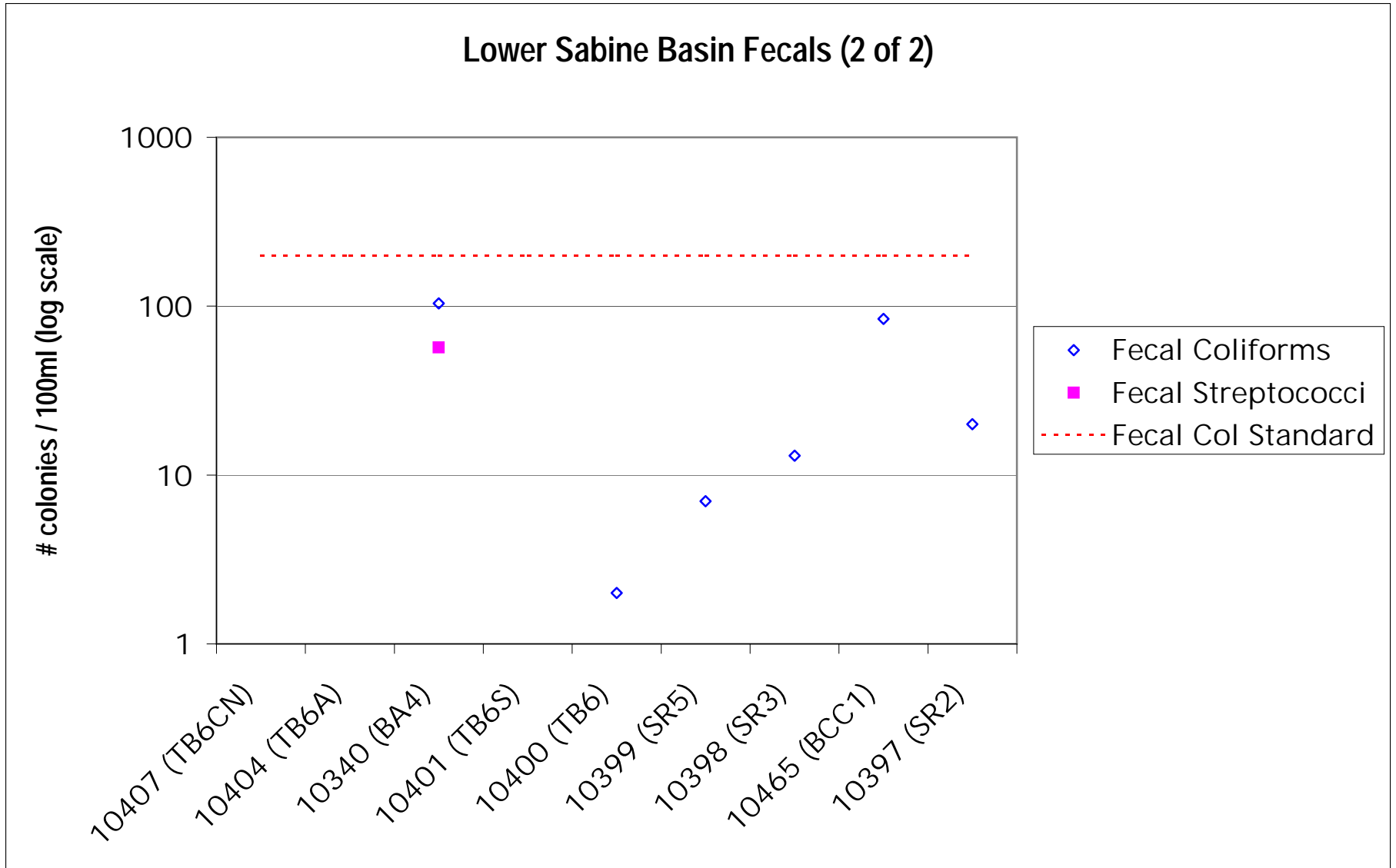
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

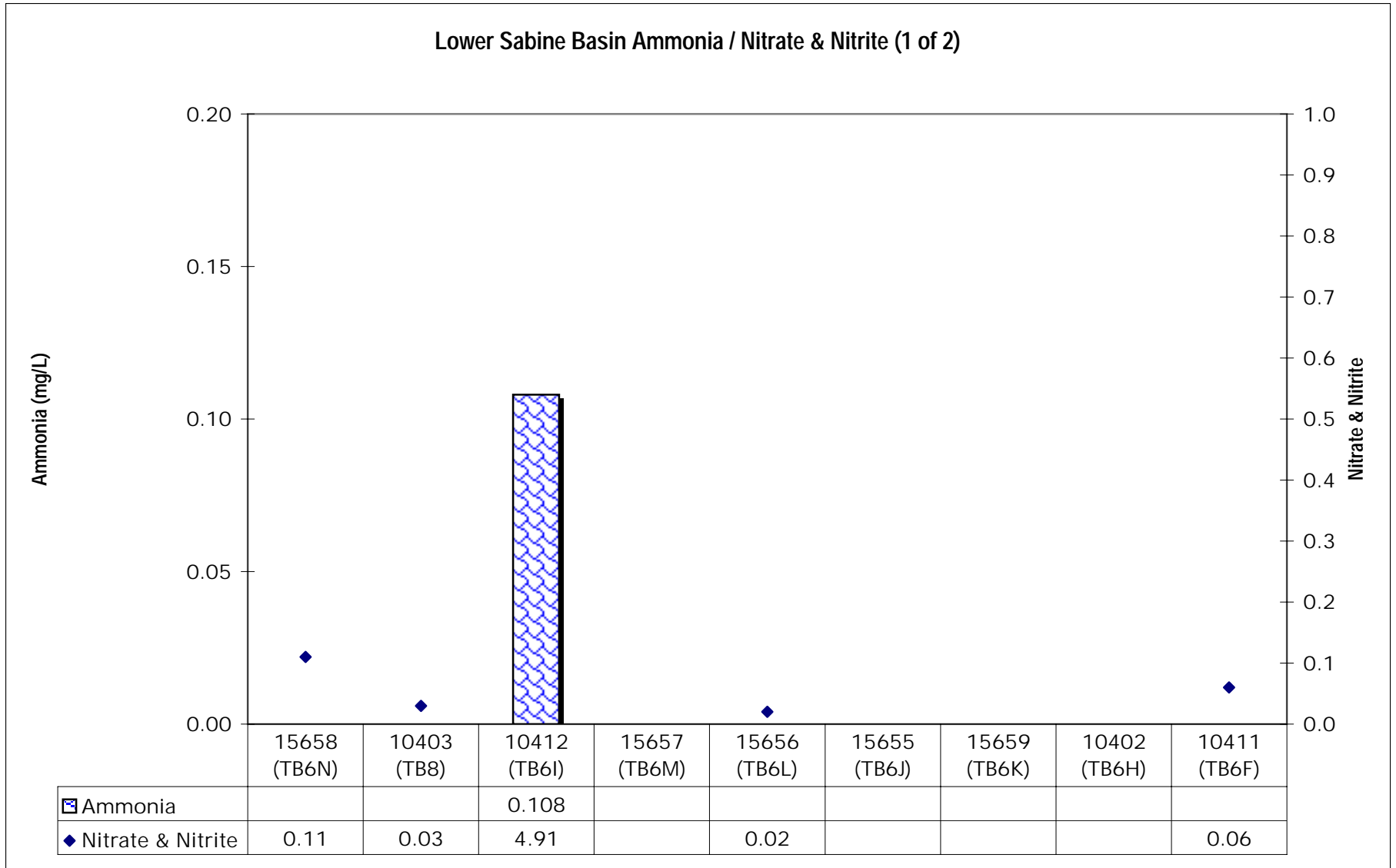
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

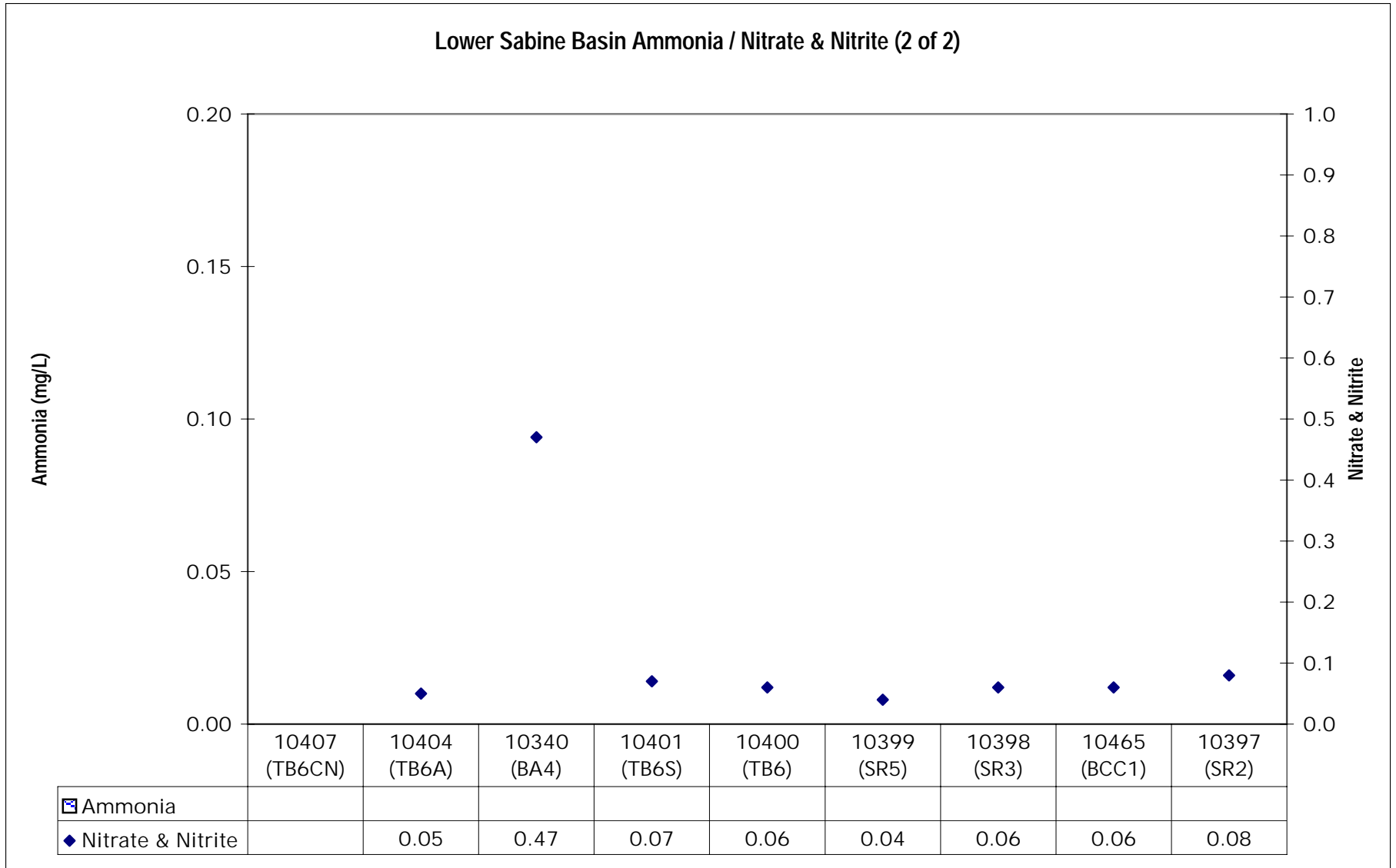
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Profiles

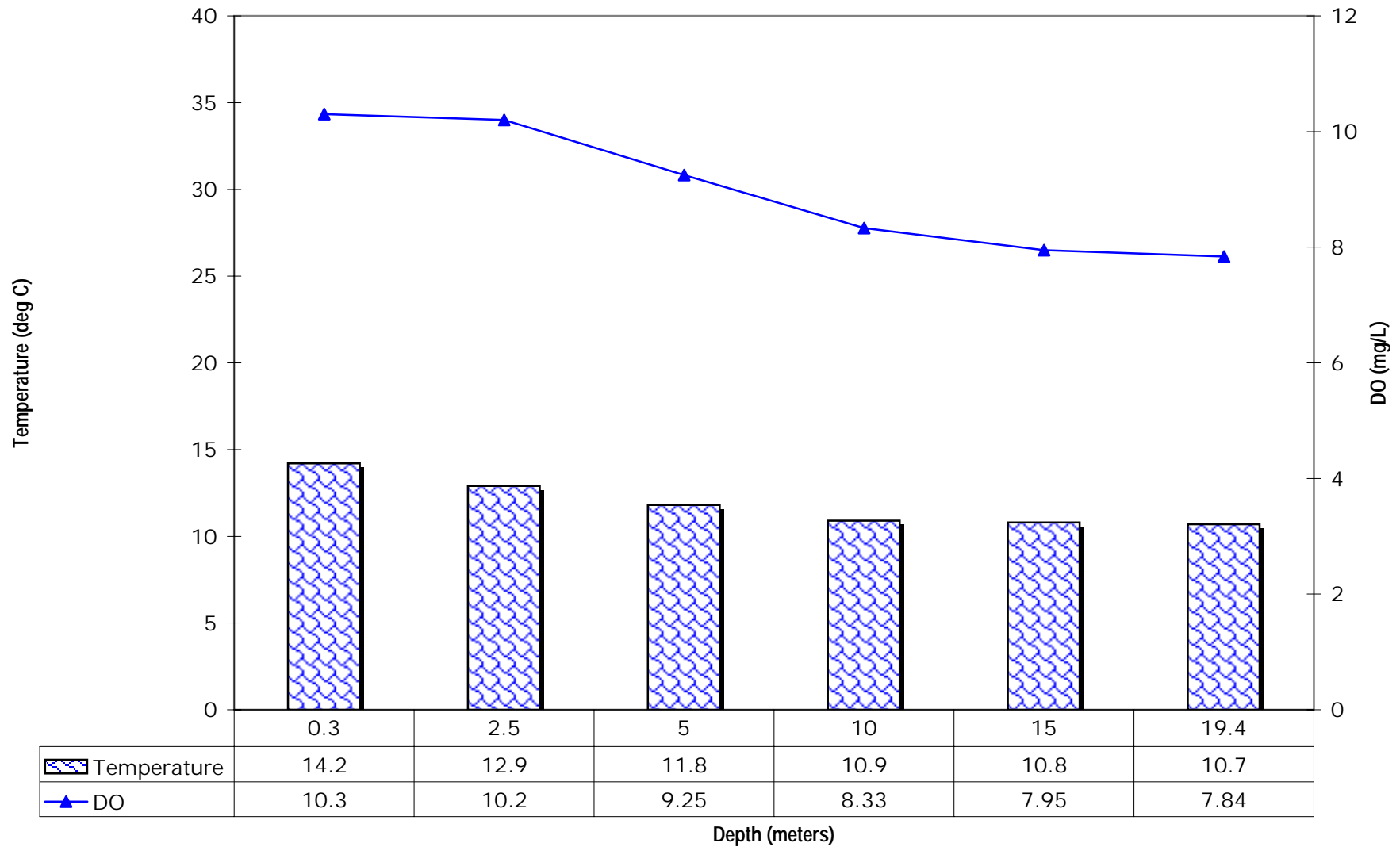
February 2000

| Date             | SW ID | Station       | Depth Meters | Temperature °C<br>00010 | pH Units<br>00400 | DO mg/L<br>00300 | % Saturation<br>00301 | Conductivity µS/cm<br>00094 |
|------------------|-------|---------------|--------------|-------------------------|-------------------|------------------|-----------------------|-----------------------------|
| 2/16/00 11:02 AM | 4.00  | 10403 (TB8)   | 0.3          | 16.7                    | 8.37              | 13.3             | 137                   | 406                         |
|                  |       |               | 1.04         | 16.3                    | 7.91              | 12.6             | 128                   | 406                         |
|                  |       |               | 3            | 15.8                    | 7.44              | 11.2             | 113                   | 405                         |
|                  |       |               | 4.65         | 15.2                    | 7.34              | 10.5             | 104                   | 408                         |
|                  |       |               | 6.07         | 14.1                    | 7.39              | 8.81             | 85.5                  | 407                         |
|                  |       |               | 6.74         | 12.4                    | 7.15              | 6.43             | 60.2                  | 407                         |
|                  |       |               | 8.28         | 11.8                    | 7.16              | 5.46             | 50.1                  | 417                         |
|                  |       |               | 9.89         | 11.7                    | 7.31              | 4.4              | 40.6                  | 433                         |
| 2/16/00 11:32 AM | 4.00  | 10412 (TB6I)  | 0.3          | 17.2                    | 7.17              | 7.26             | 75.5                  | 416                         |
|                  |       |               | 1.08         | 17                      | 7.26              | 6.89             | 71.4                  | 417                         |
|                  |       |               | 2.92         | 16.3                    | 7.46              | 5.7              | 58.1                  | 403                         |
| 2/16/00 12:58 PM | 4.00  | 15657 (TB6M)  | 0.3          | 16.4                    | 6.8               | 7.71             | 78.2                  | 286                         |
|                  |       |               | 1.5          | 14                      | 6.62              | 6.02             | 60.3                  | 289                         |
|                  |       |               | 2.6          | 11.8                    | 7.16              | 2.7              | 24.9                  | 309                         |
| 02/16/2000 10:23 | 4     | 15655 (TB6J)  | 0.3          | 16.1                    | 7.6               | 9.02             | 91.5                  | 179                         |
|                  |       |               | 3.3          | 15.5                    | 7.69              | 8.6              | 86                    | 180                         |
| 02/16/2000 12:10 | 4     | 15659 (TB6K)  | 0.3          | 17                      | 7.2               | 9.96             | 103                   | 164                         |
|                  |       |               | 1.5          | 15.4                    | 7.31              | 9.85             | 98.2                  | 165                         |
|                  |       |               | 2.5          | 13.9                    | 6.99              | 8.12             | 77.5                  | 168                         |
|                  |       |               | 5            | 12.5                    | 6.98              | 7.19             | 67.5                  | 169                         |
| 02/16/2000 11:11 | 4     | 10402 (TB6H)  | 0.3          | 14.2                    | 7.39              | 10.3             | 101                   | 171                         |
|                  |       |               | 2.5          | 12.9                    | 7.23              | 10.2             | 97.4                  | 172                         |
|                  |       |               | 5            | 11.8                    | 7.07              | 9.25             | 85.7                  | 175                         |
|                  |       |               | 10           | 10.9                    | 7                 | 8.33             | 76.2                  | 175                         |
|                  |       |               | 15           | 10.8                    | 7.06              | 7.95             | 72.7                  | 176                         |
| 02/16/2000 10:49 | 4     | 10411 (TB6F)  | 0.3          | 16.8                    | 7.15              | 9.26             | 96.5                  | 144                         |
|                  |       |               | 2            | 15.1                    | 7.19              | 9.22             | 91.2                  | 149                         |
|                  |       |               | 3.9          | 13.1                    | 7.32              | 7.26             | 68.7                  | 151                         |
| 02/16/2000 9:45  | 4     | 10407 (TB6CN) | 0.3          | 16.7                    | 7.11              | 8.95             | 92.5                  | 132                         |
|                  |       |               | 2.5          | 15.3                    | 7.09              | 8.48             | 84.4                  | 133                         |
|                  |       |               | 5.5          | 13.5                    | 7.2               | 7.05             | 67.9                  | 137                         |
| 02/16/2000 10:07 | 4     | 10404 (TB6A)  | 0.3          | 13.5                    | 7.46              | 10.1             | 96                    | 130                         |
|                  |       |               | 1.5          | 13.1                    | 7.41              | 10.1             | 96.6                  | 134                         |
|                  |       |               | 2.5          | 12.6                    | 7.32              | 9.88             | 93                    | 133                         |
|                  |       |               | 5            | 12.2                    | 7.02              | 9.53             | 89                    | 132                         |
|                  |       |               | 10           | 11                      | 7.03              | 8.72             | 79                    | 134                         |
|                  |       |               | 15           | 10.8                    | 7.02              | 8.39             | 75.7                  | 134                         |
|                  |       |               | 20           | 10.8                    | 7.03              | 8.31             | 75                    | 135                         |
| 02/16/2000 11:45 | 3     | 10399 (SR5)   | 0.3          | 14.9                    | 7.16              | 9.74             | 96.5                  | 132                         |
|                  |       |               | 1.4          | 14.9                    | 7.18              | 9.85             | 97.4                  | 136                         |
| 02/16/2000 13:30 | 3     | 10398 (SR3)   | 0.3          | 18.4                    | 7.22              | 9.07             | 96.7                  | 155                         |
|                  |       |               | 3.5          | 18.4                    | 7.24              | 8.9              | 95                    | 155                         |
|                  |       |               | 7.6          | 18.4                    | 7.31              | 8.98             | 95.7                  | 153                         |
| 02/16/2000 14:50 | 2     | 10397 (SR2)   | 0.3          | 19.4                    | 7.18              | 8.58             | 93.3                  | 141                         |
|                  |       |               | 1.9          | 19.4                    | 7.2               | 8.53             | 92.4                  | 142                         |

# SABINE RIVER AUTHORITY OF TEXAS

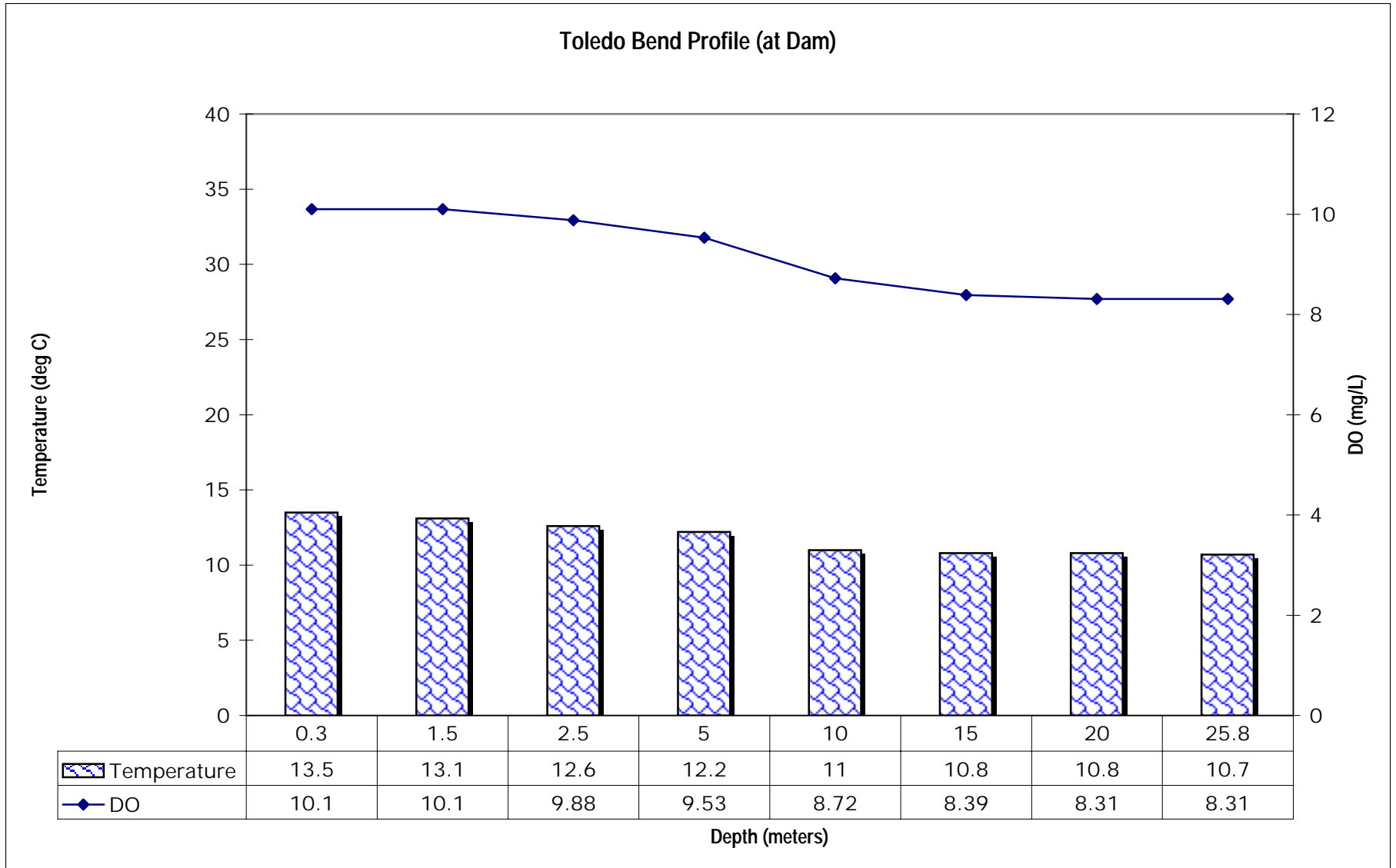
February 2000

Toledo Bend Profile (at Pendleton Bridge)



# SABINE RIVER AUTHORITY OF TEXAS

February 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Toledo Bend Weather and Reservoir Data

February 2000

| Date              | Lake Elev | LE - TOP | Max Temp | Min Temp | Rainfall | Evaporation | Daily Releases cfs | Daily Releases ac ft | Current Release |
|-------------------|-----------|----------|----------|----------|----------|-------------|--------------------|----------------------|-----------------|
| 02/01/2000        | 165.74    | (6.26)   | 54       | 27       | 0.00     | NR          | 204                | 405                  | 204             |
| 02/02/2000        | 165.75    | (6.25)   | 59       | 39       | 0.00     | 0.13        | 1148               | 2277                 | 204             |
| 02/03/2000        | 165.72    | (6.28)   | 55       | 30       | 0.00     | 0.11        | 186                | 369                  | 204             |
| 02/04/2000        | 165.80    | (6.20)   | 66       | 31       | 0.00     | 0.11        | 1371               | 2719                 | 174             |
| 02/05/2000        | 165.74    | (6.26)   | 59       | 30       | 0.00     | 0.20        | 204                | 405                  | 204             |
| 02/06/2000        | 165.65    | (6.35)   | 47       | 26       | 0.00     | 0.09        | 204                | 405                  | 204             |
| 02/07/2000        | 165.69    | (6.31)   | 63       | 26       | 0.00     | 0.13        | 1200               | 2380                 | 204             |
| 02/08/2000        | 165.71    | (6.29)   | 62       | 47       | 0.16     | 0.00        | 204                | 405                  | 204             |
| 02/09/2000        | 165.67    | (6.33)   | 63       | 43       | 0.00     | 0.10        | 1094               | 2170                 | 204             |
| 02/10/2000        | 165.62    | (6.38)   | 71       | 43       | 0.00     | 0.15        | 204                | 405                  | 204             |
| 02/11/2000        | 165.68    | (6.32)   | 72       | 50       | 0.00     | 0.12        | 1529               | 3033                 | 204             |
| 02/12/2000        | 165.71    | (6.29)   | 78       | 53       | 0.00     | 0.26        | 204                | 405                  | 204             |
| 02/13/2000        | 165.65    | (6.35)   | 62       | 53       | 0.00     | 0.08        | 204                | 405                  | 204             |
| 02/14/2000        | 165.77    | (6.23)   | 72       | 45       | 0.06     | 0.01        | 1166               | 2313                 | 204             |
| 02/15/2000        | 165.67    | (6.33)   | 64       | 43       | 0.00     | 0.12        | 204                | 405                  | 204             |
| 02/16/2000        | 165.71    | (6.29)   | 80       | 43       | 0.00     | 0.10        | 1165               | 2311                 | 204             |
| 02/17/2000        | 165.67    | (6.33)   | 80       | 64       | 0.00     | 0.13        | 204                | 405                  | 204             |
| 02/18/2000        | 165.58    | (6.42)   | 79       | 60       | 0.02     | NR          | 1346               | 2670                 | 204             |
| 02/19/2000        | 165.77    | (6.23)   | 82       | 44       | 0.47     | 0.08        | 204                | 405                  | 204             |
| 02/20/2000        | 165.67    | (6.33)   | 59       | 31       | 0.00     | 0.08        | 204                | 405                  | 204             |
| 02/21/2000        | 165.65    | (6.35)   | 61       | 36       | 0.00     | 0.21        | 1039               | 2061                 | 204             |
| 02/22/2000        | 165.55    | (6.45)   | 75       | 43       | 0.00     | 0.28        | 204                | 405                  | 204             |
| 02/23/2000        | 165.40    | (6.60)   | 77       | 43       | 0.03     | 0.16        | 1053               | 2089                 | 204             |
| 02/24/2000        | 165.59    | (6.41)   | 76       | 59       | 0.00     | 0.22        | 204                | 405                  | 204             |
| 02/25/2000        | 165.43    | (6.57)   | 80       | 65       | 0.00     | 0.16        | 1375               | 2727                 | 204             |
| 02/26/2000        | 165.59    | (6.41)   | 79       | 68       | 0.10     | 0.11        | 204                | 405                  | 204             |
| 02/27/2000        | 165.72    | (6.28)   | 72       | 40       | 0.62     | 0.25        | 204                | 405                  | 204             |
| 02/28/2000        | 165.65    | (6.35)   | 65       | 36       | 0.00     | 0.04        | 1097               | 2176                 | 204             |
| 02/29/2000        | 165.57    | (6.43)   | 75       | 47       | 0.00     | 0.20        | 204                | 405                  | 204             |
| <b>Avg or Tot</b> | 165.66    | (6.34)   | 69       | 44       | 1.46     | 3.63        | 622                | 35775                |                 |

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

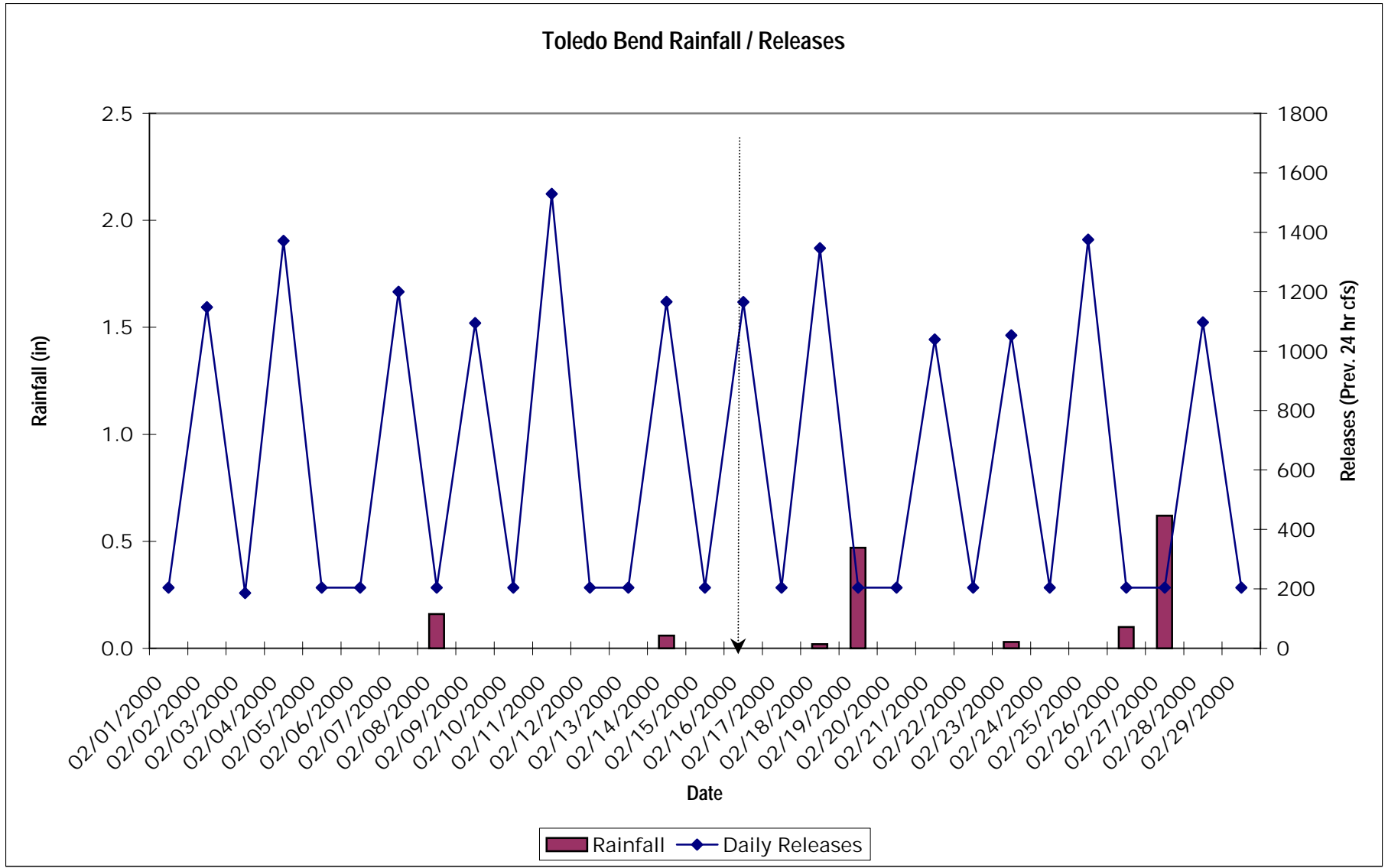
NR: No Reading

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

Toledo Bend Sampled on 2/16/2000

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



## SABINE RIVER AUTHORITY OF TEXAS

Burkeville Weather and River Data

February 2000

| Date              | Rainfall | Gauge Height | GH - FS | Flow |
|-------------------|----------|--------------|---------|------|
| 02/01/2000        | *        | 14.84        | (26.16) | 1088 |
| 02/02/2000        | *        | 12.79        | (28.21) | 253  |
| 02/03/2000        | *        | 15.09        | (25.91) | 1228 |
| 02/04/2000        | *        | 12.49        | (28.51) | 178  |
| 02/05/2000        | *        | 15.04        | (25.96) | 1200 |
| 02/06/2000        | *        | 12.47        | (28.53) | 174  |
| 02/07/2000        | *        | 12.41        | (28.59) | 160  |
| 02/08/2000        | *        | NR           | NR      | NR   |
| 02/09/2000        | *        | 12.51        | (28.49) | 183  |
| 02/10/2000        | *        | 14.80        | (26.20) | 1067 |
| 02/11/2000        | *        | 12.74        | (28.26) | 240  |
| 02/12/2000        | *        | 15.34        | (25.66) | 1375 |
| 02/13/2000        | *        | 12.73        | (28.27) | 237  |
| 02/14/2000        | *        | 12.63        | (28.37) | 211  |
| 02/15/2000        | *        | 14.99        | (26.01) | 1171 |
| 02/16/2000        | *        | 12.70        | (28.30) | 229  |
| 02/17/2000        | *        | 13.68        | (27.32) | 548  |
| 02/18/2000        | *        | 12.68        | (28.32) | 224  |
| 02/19/2000        | *        | 15.15        | (25.85) | 1263 |
| 02/20/2000        | *        | 12.64        | (28.36) | 214  |
| 02/21/2000        | *        | 12.56        | (28.44) | 195  |
| 02/22/2000        | *        | 14.94        | (26.06) | 1143 |
| 02/23/2000        | *        | 12.67        | (28.33) | 221  |
| 02/24/2000        | *        | 14.96        | (26.04) | 1154 |
| 02/25/2000        | *        | 12.69        | (28.31) | 226  |
| 02/26/2000        | *        | 15.29        | (25.71) | 1345 |
| 02/27/2000        | *        | NR           | NR      | NR   |
| 02/28/2000        | *        | 12.68        | (28.32) | 224  |
| 02/29/2000        | *        | 14.89        | (26.11) | 1115 |
| <b>Avg or Tot</b> |          | 13.64        | (27.36) | 625  |

|       |        |      |      |     |
|-------|--------|------|------|-----|
|       | 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

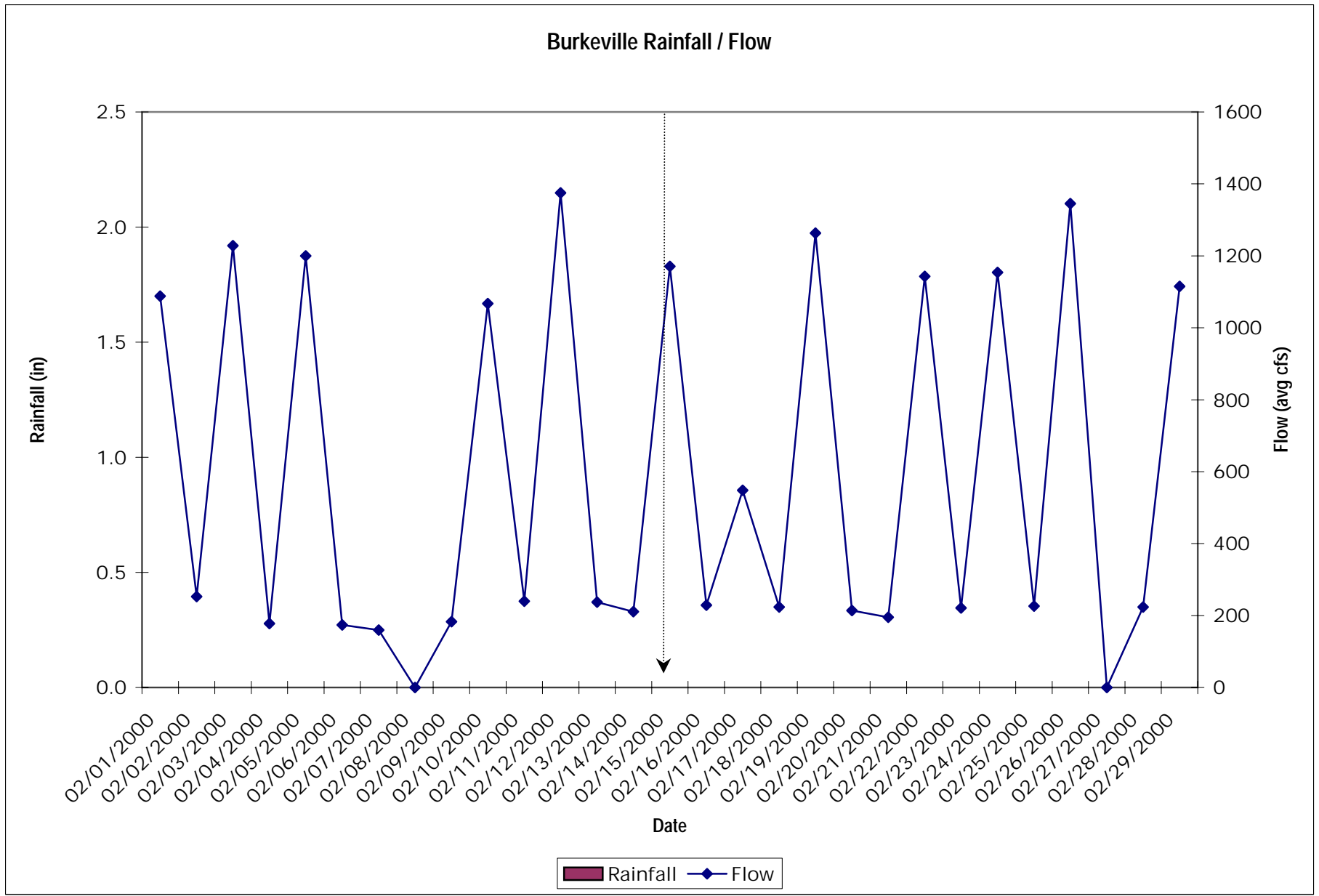
OUT: Gage Out

Lower Sabine Basin Sampled on 2/16/2000

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

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



Lower Sabine Basin Sampled on 2/16/2000.

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

February 2000

| Date              | Gauge Height | GH - FS | Flow Avg | 308 Rainfall |
|-------------------|--------------|---------|----------|--------------|
| 02/01/2000        | 13.13        | (16.87) | 800      | 0.00         |
| 02/02/2000        | 14.55        | (15.45) | 1582     | 0.00         |
| 02/03/2000        | 13.32        | (16.68) | 891      | 0.00         |
| 02/04/2000        | 14.51        | (15.49) | 1556     | 0.00         |
| 02/05/2000        | 13.13        | (16.87) | 800      | 0.00         |
| 02/06/2000        | 14.59        | (15.41) | 1607     | 0.00         |
| 02/07/2000        | 13.12        | (16.88) | 795      | 0.00         |
| 02/08/2000        | 12.79        | (17.21) | 649      | 0.28         |
| 02/09/2000        | 14.38        | (15.62) | 1476     | 0.01         |
| 02/10/2000        | 13.12        | (16.88) | 795      | 0.00         |
| 02/11/2000        | 14.40        | (15.60) | 1488     | 0.00         |
| 02/12/2000        | 13.24        | (16.76) | 852      | 0.00         |
| 02/13/2000        | 14.81        | (15.19) | 1750     | 0.00         |
| 02/14/2000        | 13.27        | (16.73) | 866      | 0.01         |
| 02/15/2000        | 12.93        | (17.07) | 709      | 0.00         |
| 02/16/2000        | 14.51        | (15.49) | 1556     | 0.00         |
| 02/17/2000        | 13.24        | (16.76) | 852      | 0.00         |
| 02/18/2000        | 14.14        | (15.86) | 1331     | 0.00         |
| 02/19/2000        | 13.08        | (16.92) | 777      | 0.04         |
| 02/20/2000        | 14.66        | (15.34) | 1652     | 0.00         |
| 02/21/2000        | 13.20        | (16.80) | 833      | 0.00         |
| 02/22/2000        | 12.87        | (17.13) | 683      | 0.00         |
| 02/23/2000        | 14.34        | (15.66) | 1451     | 0.04         |
| 02/24/2000        | 13.16        | (16.84) | 814      | 0.00         |
| 02/25/2000        | 14.45        | (15.55) | 1519     | 0.00         |
| 02/26/2000        | 13.23        | (16.77) | 847      | 0.19         |
| 02/27/2000        | 14.76        | (15.24) | 1717     | 0.22         |
| 02/28/2000        | 13.40        | (16.60) | 930      | 0.00         |
| 02/29/2000        | 13.02        | (16.98) | 749      | 0.00         |
| <b>Avg or Tot</b> | 13.70        | (16.30) | 1115     | 0.79         |

|       |             |             |     |               |
|-------|-------------|-------------|-----|---------------|
| Units | Avg<br>Feet | Avg<br>Feet | Avg | Tot<br>Inches |
|-------|-------------|-------------|-----|---------------|

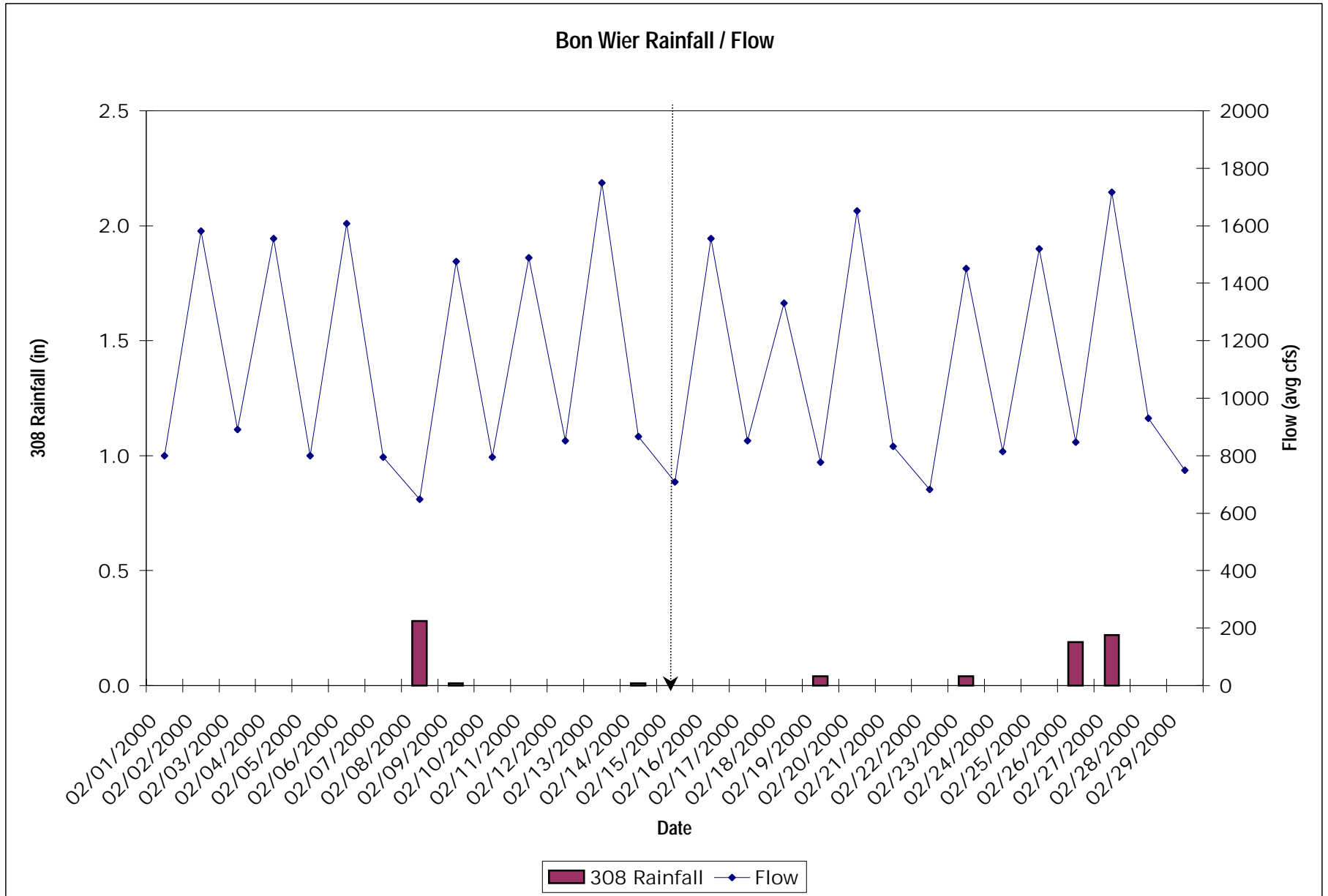
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 2/16/2000

# Sabine River Authority of Texas

February 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

February 2000

| Date              | Gauge Height | GH - FS | Flow cfs | Flow acft | Flow avg | 309 Rainfall |
|-------------------|--------------|---------|----------|-----------|----------|--------------|
| 02/01/2000        | 15.87        | (8.13)  | 1759     | 3489      | 1759     | 0.00         |
| 02/02/2000        | 14.92        | (9.08)  | 1402     | 2781      | 1581     | 0.00         |
| 02/03/2000        | 14.88        | (9.12)  | 1388     | 2753      | 1516     | 0.00         |
| 02/04/2000        | 15.24        | (8.76)  | 1519     | 3013      | 1517     | 0.00         |
| 02/05/2000        | 15.00        | (9.00)  | 1430     | 2836      | 1500     | 0.00         |
| 02/06/2000        | 15.13        | (8.87)  | 1478     | 2932      | 1496     | 0.00         |
| 02/07/2000        | 14.99        | (9.01)  | 1426     | 2828      | 1486     | 0.00         |
| 02/08/2000        | 15.26        | (8.74)  | 1527     | 3029      | 1491     | NR           |
| 02/09/2000        | 14.37        | (9.63)  | 1214     | 2408      | 1460     | 0.00         |
| 02/10/2000        | 14.40        | (9.60)  | 1224     | 2428      | 1437     | 0.00         |
| 02/11/2000        | 15.01        | (8.99)  | 1433     | 2842      | 1436     | 0.00         |
| 02/12/2000        | 14.77        | (9.23)  | 1350     | 2678      | 1429     | 0.00         |
| 02/13/2000        | 15.10        | (8.90)  | 1467     | 2910      | 1432     | 0.00         |
| 02/14/2000        | 15.26        | (8.74)  | 1527     | 3029      | 1439     | 0.00         |
| 02/15/2000        | 15.40        | (8.60)  | 1580     | 3134      | 1448     | 0.00         |
| 02/16/2000        | 14.51        | (9.49)  | 1261     | 2501      | 1437     | 0.00         |
| 02/17/2000        | 14.59        | (9.41)  | 1288     | 2555      | 1428     | 0.02         |
| 02/18/2000        | 15.07        | (8.93)  | 1456     | 2888      | 1429     | 0.01         |
| 02/19/2000        | 15.29        | (8.71)  | 1538     | 3051      | 1435     | 0.00         |
| 02/20/2000        | 14.92        | (9.08)  | 1402     | 2781      | 1434     | 0.00         |
| 02/21/2000        | 14.95        | (9.05)  | 1412     | 2801      | 1432     | 0.00         |
| 02/22/2000        | 15.23        | (8.77)  | 1515     | 3005      | 1436     | 0.00         |
| 02/23/2000        | 14.29        | (9.71)  | 1186     | 2352      | 1425     | 0.04         |
| 02/24/2000        | 14.33        | (9.67)  | 1200     | 2380      | 1416     | 0.01         |
| 02/25/2000        | 14.90        | (9.10)  | 1395     | 2767      | 1415     | 0.00         |
| 02/26/2000        | 14.75        | (9.25)  | 1343     | 2664      | 1412     | 0.00         |
| 02/27/2000        | 15.09        | (8.91)  | 1463     | 2902      | 1414     | 0.03         |
| 02/28/2000        | 15.11        | (8.89)  | 1470     | 2916      | 1416     | 0.00         |
| 02/29/2000        | 15.37        | (8.63)  | 1568     | 3110      | 1421     | 0.00         |
| <b>Avg or Tot</b> | 14.97        | (9.03)  | 1421     | 81763     |          | 0.11         |

|       |             |             |            |              |               |
|-------|-------------|-------------|------------|--------------|---------------|
| Units | Avg<br>Feet | Avg<br>Feet | Avg<br>cfs | Tot<br>ac ft | Tot<br>Inches |
|-------|-------------|-------------|------------|--------------|---------------|

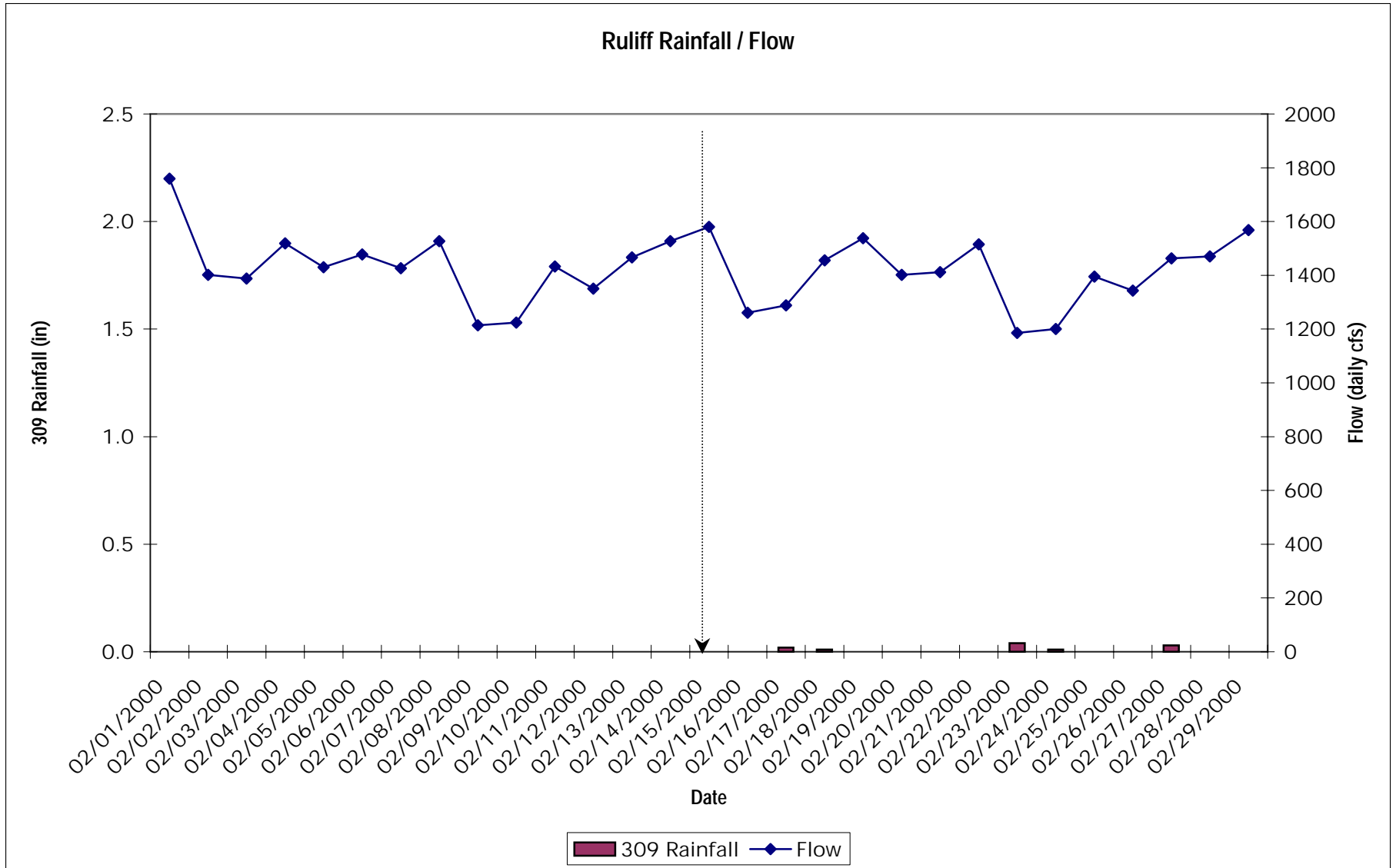
FS: Flood Stage 24 feet with 10 foot datum

NR: No Reading

Lower Sabine Basin Sampled on 2/16/2000

# SABINE RIVER AUTHORITY OF TEXAS

February 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

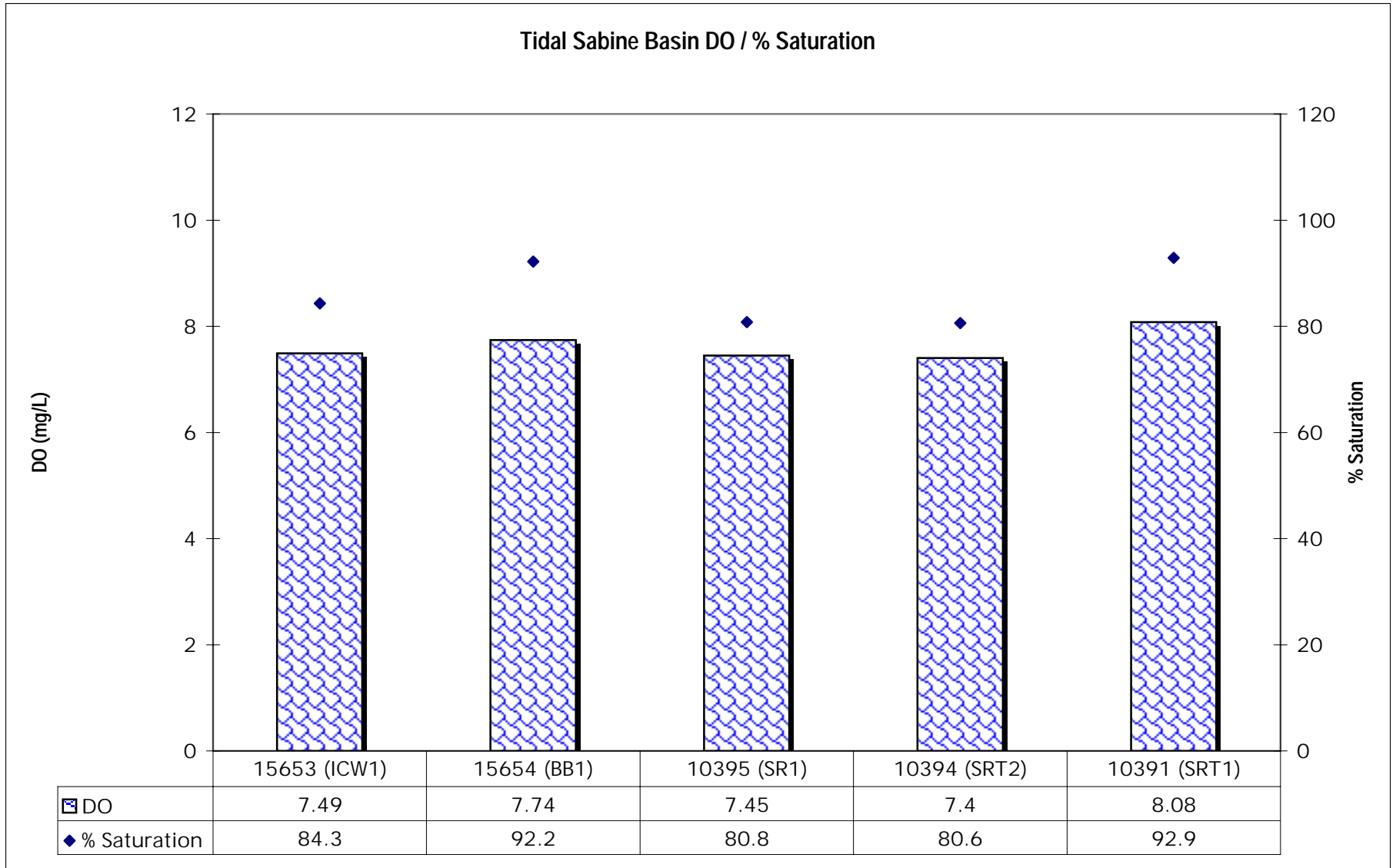
February 2000

| Date             | SW ID | Station      | Temperature<br>°C<br>00010 | pH<br>Units<br>00400 | DO<br>mg/L<br>00300 | %<br>Saturation<br>00301 | Conductivity<br>µS/cm<br>00094 | Salinity<br>ppt<br>00480 | Secchi<br>Meters<br>00078 | Turbidity<br>NTU<br>82079 | Fecal<br>Coliform<br>31616 | Fecal<br>Strep<br>31673 | Chlorophyll a<br>µg/L<br>32211 | Ammonia<br>mg/L<br>00610 | Nitrate &<br>Nitrite<br>00630 | Ortho-<br>Phosphate<br>00671 | TOC<br>mg/L<br>00680 | Total<br>Alkalinity<br>00410 | Total<br>Hardness<br>00900 | Chloride<br>mg/L<br>00940 | Sulfate<br>mg/L<br>00945 |
|------------------|-------|--------------|----------------------------|----------------------|---------------------|--------------------------|--------------------------------|--------------------------|---------------------------|---------------------------|----------------------------|-------------------------|--------------------------------|--------------------------|-------------------------------|------------------------------|----------------------|------------------------------|----------------------------|---------------------------|--------------------------|
| 2/17/00 10:13 AM | 1.05  | 15653 (ICW1) | 18.2                       | 7.35                 | 7.49                | 84.3                     | 16200                          | 9                        | 0.66                      | 13.2                      | 22                         | *                       | *                              | *                        | < 0.02                        | < 0.02                       | < 1                  | 65.4                         | 1840                       | 5350                      | 745                      |
| 2/17/00 11:00 AM | 1.01  | 15654 (BB1)  | 19.9                       | 7.69                 | 7.74                | 92.2                     | 22750                          | 14                       |                           | 8.81                      | 11                         | *                       | *                              | *                        | 1.08                          | < 0.02                       | < 1                  | 78.2                         | 2780                       | 8270                      | 1150                     |
| 2/17/00 9:17 AM  | 1.00  | 10395 (SR1)  | 19.3                       | 7.22                 | 7.45                | 80.8                     | 191                            | *                        | 0.65                      | 17.2                      | 20                         | *                       | *                              | *                        | 0.08                          | < 0.02                       | 4                    | 33.8                         | 32                         | 14.3                      | 30.4                     |
| 2/17/00 9:38 AM  | 1.00  | 10394 (SRT2) | 18.9                       | 7.3                  | 7.4                 | 80.6                     | 1856                           | 1                        | 0.69                      | 11                        | 20                         | *                       | *                              | *                        | 0.06                          | < 0.02                       | < 1                  | 31.3                         | 182                        | 500                       | 92.3                     |
| 2/17/00 11:20 AM | 1.00  | 10391 (SRT1) | 18.9                       | 7.7                  | 8.08                | 92.9                     | 17490                          | 10                       | 0.97                      | 5.45                      | 24                         | *                       | *                              | *                        | < 0.02                        | < 0.02                       | < 1                  | 67.6                         | 2070                       | 5930                      | 839                      |

\*: Not sampled on this run

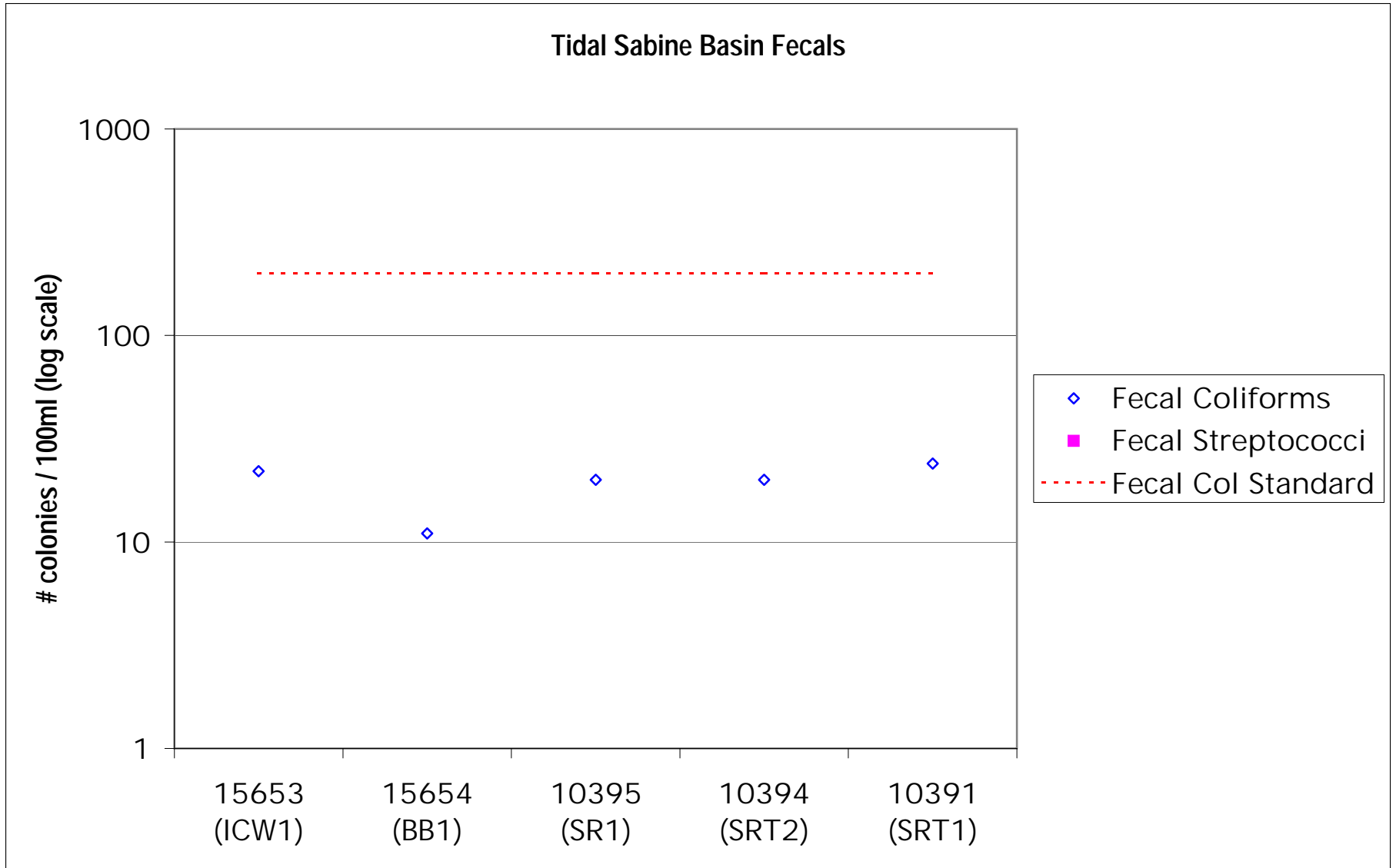
# SABINE RIVER AUTHORITY OF TEXAS

February 2000



# SABINE RIVER AUTHORITY OF TEXAS

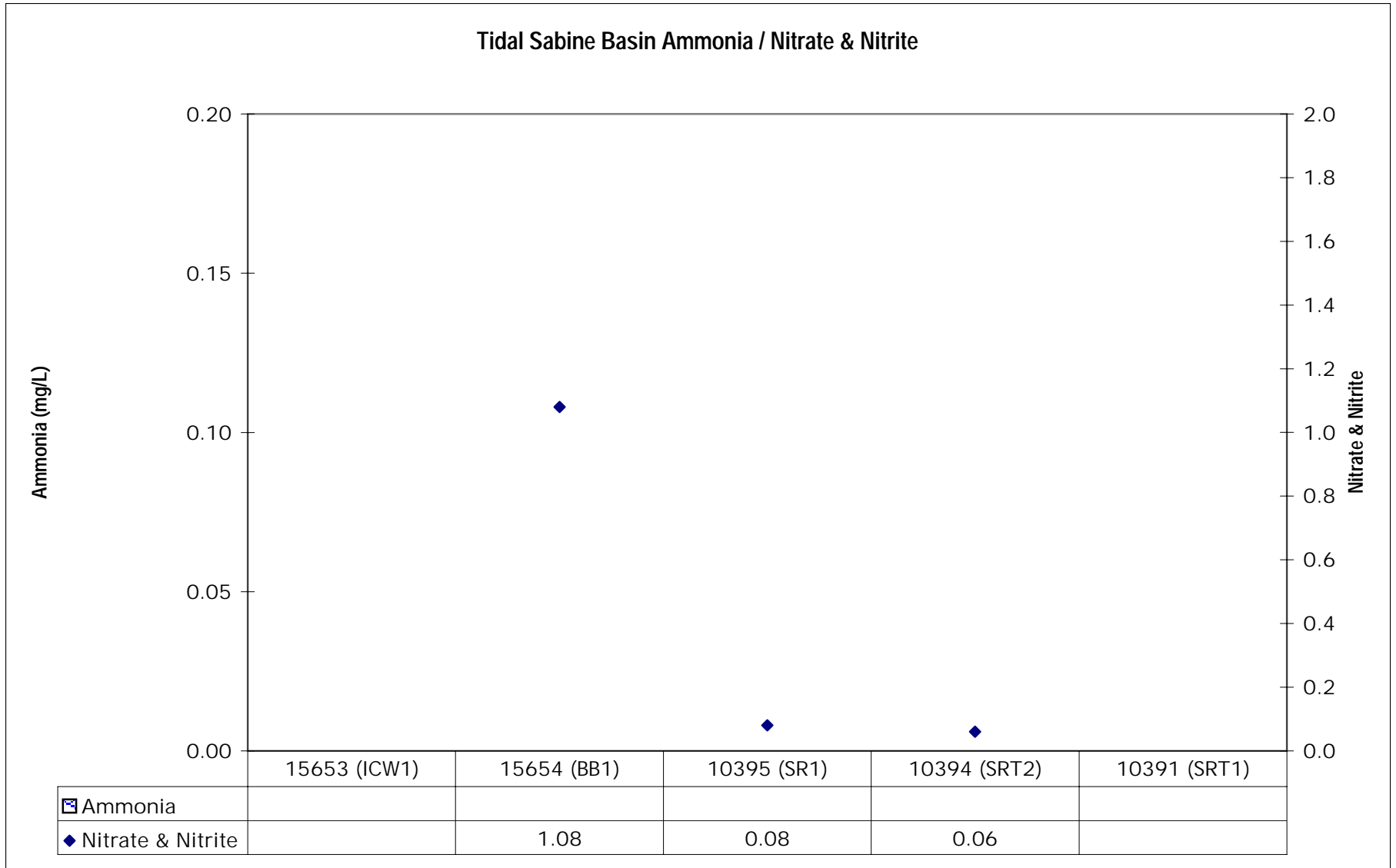
February 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



Stations without Nitrate and Nitrite values were below detection limit on this run (see page 40).  
 Values for ammonia were not obtained due to equipment failure.

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Profiles

February 2000

| Date             | SW ID | Station      | Depth Meters | Temperature °C<br>00010 | pH Units<br>00400 | DO mg/L<br>00300 | % Saturation<br>00301 | Conductivity µS/cm<br>00094 | Salinity ppt<br>00480 |
|------------------|-------|--------------|--------------|-------------------------|-------------------|------------------|-----------------------|-----------------------------|-----------------------|
| 2/17/00 10:13 AM | 1.05  | 15653 (ICW1) | 0.3          | 18.2                    | 7.35              | 7.49             | 84.3                  | 16200                       | 9                     |
|                  |       |              | 5.7          | 18.2                    | 7.36              | 7.47             | 83.2                  | 15870                       | 9                     |
| 2/17/00 11:00 AM | 1.01  | 15654 (BB1)  | 0.3          | 19.9                    | 7.69              | 7.74             | 92.2                  | 22750                       | 14                    |
|                  |       |              | 2.5          | 19.8                    | 7.68              | 7.76             | 91.1                  | 22880                       | 14                    |
|                  |       |              | 4.8          | 19.8                    | 7.67              | 8.2              | 96.2                  | 22880                       | 14                    |
| 2/17/00 9:17 AM  | 1.00  | 10395 (SR1)  | 0.3          | 19.3                    | 7.22              | 7.45             | 80.8                  | 191                         | *                     |
|                  |       |              | 2.5          | 19.3                    | 7.24              | 7.44             | 80.8                  | 187                         | *                     |
|                  |       |              | 4.8          | 19.3                    | 7.28              | 7.46             | 80.6                  | 200                         | *                     |
| 2/17/00 9:38 AM  | 1.00  | 10394 (SRT2) | 0.3          | 18.9                    | 7.3               | 7.4              | 80.6                  | 1856                        | 1                     |
|                  |       |              | 2            | 18.5                    | 7.35              | 7.13             | 77.7                  | 2263                        | 1                     |
|                  |       |              | 3            | 15.3                    | 7.16              | 6.34             | 67.5                  | 16640                       | 10                    |
|                  |       |              | 6            | 13.6                    | 7.08              | 5.44             | 57.3                  | 22340                       | 14                    |
|                  |       |              | 10.3         | 13.5                    | 6.95              | 4.71             | 49.4                  | 27250                       | 16                    |
| 2/17/00 11:20 AM | 1.00  | 10391 (SRT1) | 0.3          | 18.9                    | 7.7               | 8.08             | 92.9                  | 17490                       | 10                    |
|                  |       |              | 5            | 18.1                    | 7.78              | 7.51             | 87.5                  | 24040                       | 14                    |
|                  |       |              | 9.9          | 17.2                    | 7.79              | 7.25             | 83.7                  | 29750                       | 19                    |

\*: Not sampled on this run

## SABINE RIVER AUTHORITY OF TEXAS

### Orange Weather and River Data

February 2000

| Date              | 310 (Orange) Rainfall | Gauge Height | GH - FS | Max Temp | Min Temp | Cur Temp | 293 (GCD) Rainfall |
|-------------------|-----------------------|--------------|---------|----------|----------|----------|--------------------|
| 02/01/2000        | 0.00                  | 1.40         | (2.60)  | 58       | 35       | 43       | 0.00               |
| 02/02/2000        | 0.00                  | 1.21         | (2.79)  | 61       | 43       | 46       | 0.00               |
| 02/03/2000        | 0.00                  | 1.38         | (2.62)  | 61       | 38       | 38       | 0.00               |
| 02/04/2000        | 0.00                  | 0.96         | (3.04)  | 70       | 36       | 44       | 0.00               |
| 02/05/2000        | 0.00                  | (0.01)       | (4.01)  | 65       | 32       | 32       | 0.00               |
| 02/06/2000        | 0.00                  | 1.09         | (2.91)  | 57       | 28       | 28       | 0.00               |
| 02/07/2000        | 0.00                  | 1.18         | (2.82)  | 62       | 27       | 50       | 0.00               |
| 02/08/2000        | 0.37                  | 0.78         | (3.22)  | 67       | 50       | 50       | 0.38               |
| 02/09/2000        | 0.00                  | 0.65         | (3.35)  | 68       | 40       | 48       | 0.00               |
| 02/10/2000        | 0.00                  | 0.73         | (3.27)  | 69       | 48       | 55       | 0.00               |
| 02/11/2000        | 0.00                  | 0.88         | (3.12)  | 74       | 54       | 65       | 0.00               |
| 02/12/2000        | 0.00                  | 0.66         | (3.34)  | 75       | 62       | 63       | 0.00               |
| 02/13/2000        | 0.00                  | 0.85         | (3.15)  | 76       | 63       | 67       | 0.00               |
| 02/14/2000        | 0.00                  | 1.20         | (2.80)  | 73       | 58       | 58       | 0.00               |
| 02/15/2000        | 0.00                  | 0.94         | (3.06)  | 75       | 61       | 62       | 0.00               |
| 02/16/2000        | 0.00                  | 1.80         | (2.20)  | 76       | 60       | 66       | 0.00               |
| 02/17/2000        | 0.01                  | 1.60         | (2.40)  | 78       | 66       | 67       | 0.01               |
| 02/18/2000        | 0.01                  | 2.09         | (1.91)  | 77       | 67       | 70       | 0.00               |
| 02/19/2000        | 0.00                  | 1.34         | (2.66)  | 80       | 51       | 51       | 0.00               |
| 02/20/2000        | 0.00                  | 0.90         | (3.10)  | 67       | 39       | 39       | 0.00               |
| 02/21/2000        | 0.00                  | 1.16         | (2.84)  | 69       | 38       | 43       | 0.00               |
| 02/22/2000        | 0.00                  | 1.22         | (2.78)  | 73       | 42       | 48       | 0.00               |
| 02/23/2000        | 0.00                  | 1.38         | (2.62)  | 73       | 45       | 61       | 0.20               |
| 02/24/2000        | 0.02                  | 0.88         | (3.12)  | 76       | 61       | 65       | 0.00               |
| 02/25/2000        | 0.00                  | 1.42         | (2.58)  | 77       | 65       | 69       | 0.00               |
| 02/26/2000        | 0.00                  | 1.83         | (2.17)  | 76       | 68       | 68       | 0.05               |
| 02/27/2000        | 0.16                  | 0.73         | (3.27)  | 75       | 41       | 41       | 0.25               |
| 02/28/2000        | 0.00                  | 0.94         | (3.06)  | 73       | 38       | 38       | 0.00               |
| 02/29/2000        | 0.00                  | 1.57         | (2.43)  | 73       | 37       | 57       | 0.00               |
| <b>Avg or Tot</b> | 0.57                  | 1.13         | (2.87)  | 71       | 48       | 53       | 0.89               |

|       |               |             |             |              |              |              |               |
|-------|---------------|-------------|-------------|--------------|--------------|--------------|---------------|
| Units | Tot<br>Inches | Avg<br>Feet | Avg<br>Feet | Avg<br>Deg F | Avg<br>Deg F | Avg<br>Deg F | Tot<br>Inches |
|-------|---------------|-------------|-------------|--------------|--------------|--------------|---------------|

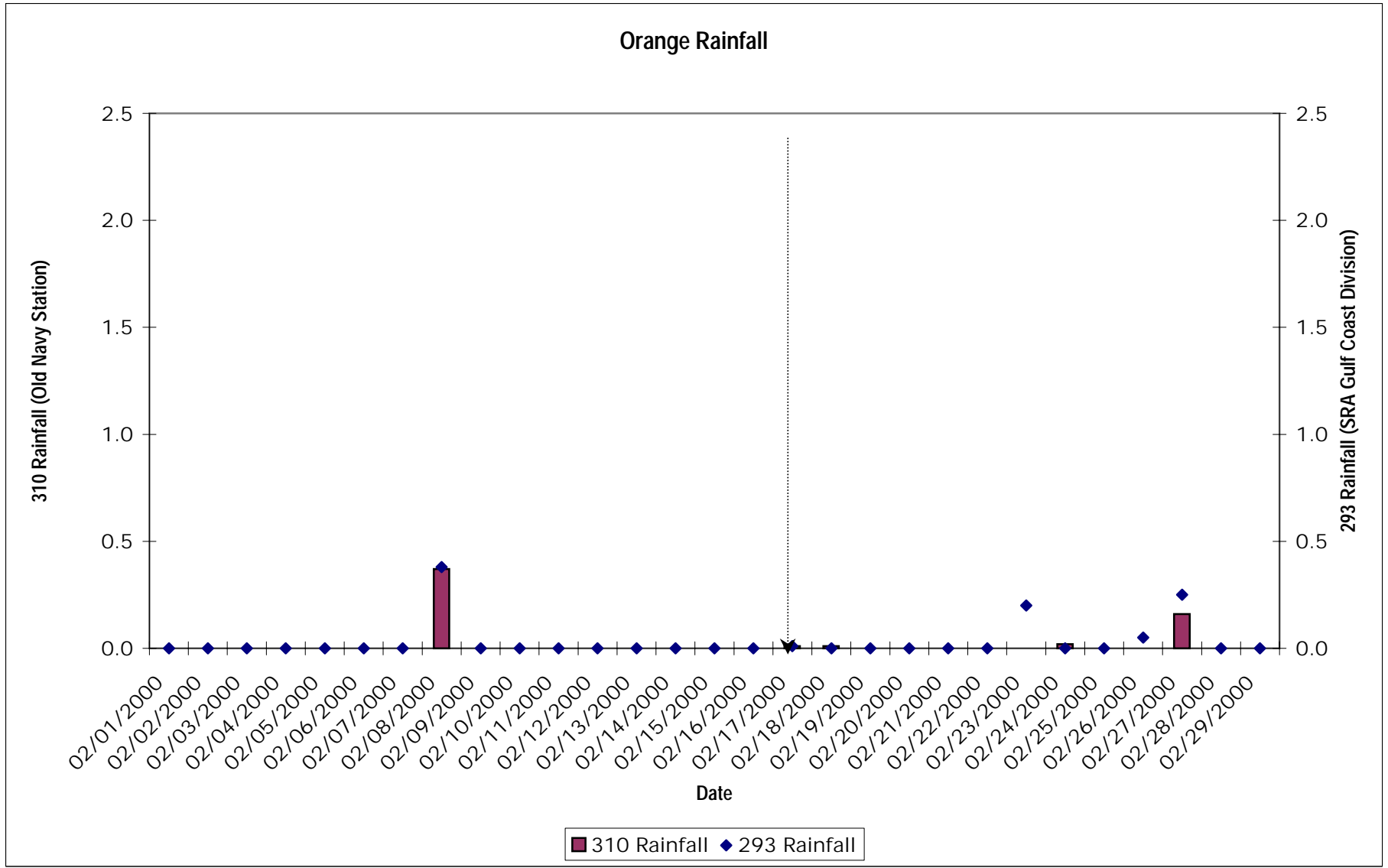
Appx. 8 am

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 2/17/2000

# SABINE RIVER AUTHORITY OF TEXAS

February 2000



Tidal Sabine Basin Sampled on 2/17/2000