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# SABINE RIVER AUTHORITY OF TEXAS

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

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This is the Sabine River Authority Water Quality Summary for November 2000. Water quality sampling was performed November 14th through November 16th. The Upper Basin received 10-13 inches of rainfall during the past 30 days as recorded at lakes Tawakoni and Fork. Toledo Bend and Orange received 7.8 and 3.7 inches respectively during the same period. Recent runoff contributed to elevated fecal coliform and high turbidity values in the Upper Basin. Daytime-high air temperatures were in the 40's and 50's in the Upper Basin and in the 50's and 60's in the Lower Basin. Lows were in the 30's and 40's. Temperature and dissolved oxygen profiles indicate the reservoirs were not thermally stratified and will continue to mix until extended periods of warm weather.

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

For the November sample run, most of the water quality values seen at the Upper Basin sites were consistent with water of high quality. Lake Fork and Tawakoni reservoirs were completely mixed. Most of the Upper Basin river sites had elevated fecal coliform bacteria counts, not unusual after heavy rains. Fecal streptococcal bacteria were also elevated at the same sites as supporting evidence that the high bacterial counts are from non-human sources. However, fecal coliform counts at the reservoir sites were compliant with stream standards. One site at Lake Tawakoni (LT23D) had slightly elevated chlorophyll *a* and one Lake Fork Reservoir site (LF2) had slightly elevated nitrate/nitrite.

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

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

November WQM sampling results were indicative of water of high quality at most sites. The amount of rainfall increased in the area but Toledo Bend Reservoir levels were still below maximum pool level. Deep-water stations sampled on the reservoir were well mixed and did not exhibit thermal stratification. Sites TB6N and TB6M had oxygen levels that were below stream standards. Elevated conductivity readings, fecal coliform counts and chloride levels were observed at Station TB6N. TB6N is located downstream from a municipal wastewater treatment plant. Elevated conductivity readings and higher nitrate/nitrite, sulfate and chloride 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 at most sites. Stations AB7 and CB4 had oxygen readings that were below stream standards. Fecal coliform standards were exceeded at four stations: AB7, AB2, CB4, and CB1. Salinity was detected at six tidal stations: AB2, CB1, SRT1, AB7, BB1 and ICW1. The greatest salinity reading of 21 ppt was observed at the deepest depth at Station SRT1. Deep water stations sampled exhibited thermal stratification with a definite salt-water wedge at river tidal stations SRT1 and SRT2.

This Report and additional data for these monitoring stations are available on our World Wide Web site ([www.sra.dst.tx.us](http://www.sra.dst.tx.us)). If you have any questions or comments concerning this report, please contact:

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PRINTED WEDNESDAY, JANUARY 24, 2001

# SABINE RIVER AUTHORITY OF TEXAS

## Water Quality Monitoring Program

November 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</i> | <i>Station</i> | <i>Location</i>  |
|-----------|----------------|----------------|--|
| 7.00      | 0507           | 10440 (LT23C)  | LAKE TAWAKONI NR WIND POINT PARK                             |
| 7.00      | 0507           | 10435 (LT23D)  | LAKE TAWAKONI IN KITSEE INLET NEAR WHITE POINT CAUSEWAY      |
| 7.00      | 0507           | 10434 (LT23A)  | LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM                  |
| 6.12      | 0512           | 10461 (LF3)    | LAKE FORK RESERVOIR MID-ARM IN CANEY CREEK ARM AT FM 515     |
| 6.12      | 0512           | 10462 (LF4)    | LAKE FORK RESERVOIR MID-COVE IN LAKE FORK CREEK ARM AT FM515 |
| 6.12      | 0512           | 10458 (LF2)    | LAKE FORK RESERVOIR NEAR DAM IN CREEK CHANNEL                |
| 6.10      | 0515           | 10469 (LF20)   | LAKE FORK CREEK AT US 80                                     |
| 6.04      | 0506           | 14500 (HRS16)  | HARRIS CREEK AT FM 16  |
| 6.02      | 0514           | 10467 (BS18)   | BIG SANDY CREEK AT US 80                                     |
| 6.00      | 0506           | 17065 (SR22)   | SABINE RIVER AT FM 17 (SR22)                                 |
| 6.00      | 0506           | 10430 (SR21)   | SABINE RIVER AT US 69  |
| 6.00      | 0506           | 10429 (SR19)   | SABINE RIVER AT SH 14 S. OF HAWKINS                          |
| 5.00      | 0505           | 10428 (SR17)   | SABINE RIVER AT US 271                                       |
| 5.00      | 0505           | 10427 (SR16)   | SABINE RIVER AT SH 42  |
| 5.00      | 0505           | 10426 (SR15)   | SABINE RIVER AT US 259                                       |
| 5.00      | 0505           | 10423 (SR14)   | SABINE RIVER AT SH 149                                       |
| 5.00      | 0505           | 13628 (SR11)   | SABINE RIVER AT US 59  |
| 5.00      | 0505           | 10415 (SR10)   | SABINE RIVER AT FM 2517                                      |

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

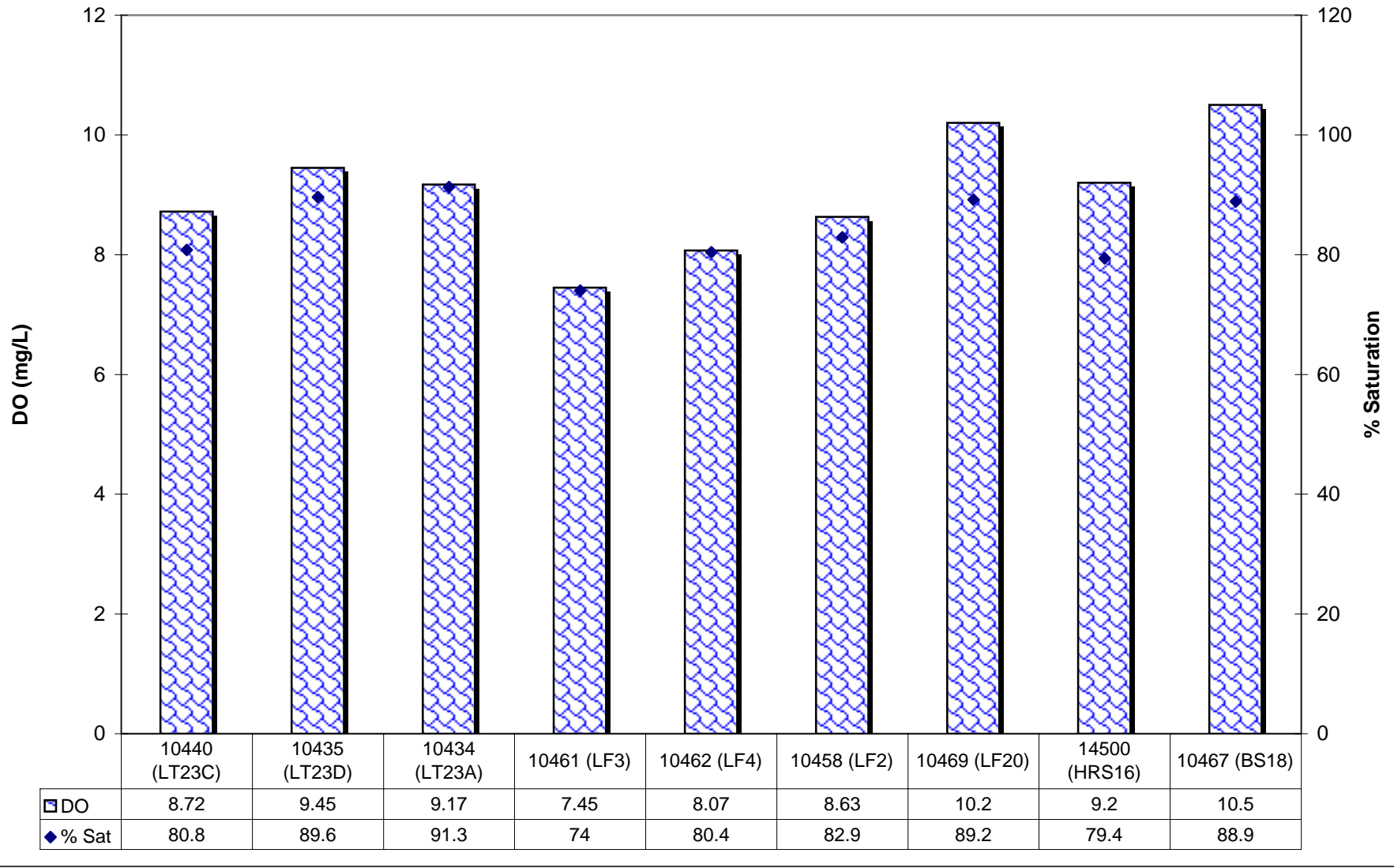
| Date              | SW ID | Station       | Temperature °C<br>00010 | pH Units<br>00400 | DO mg/L<br>00300 | % Saturation<br>00301 | Conductivity µS/cm<br>00094 | Salinity ppt<br>00480 | Secchi Meters<br>00078 | Turbidity NTU<br>82079 | Fecal Coliform<br>31616 | Fecal Strep<br>31673 | Chlorophyll a 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 |
|-------------------|-------|---------------|-------------------------|-------------------|------------------|-----------------------|-----------------------------|-----------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------------|-----------------------|----------------------------|--------------------------|-------------------|---------------------------|-------------------------|------------------------|-----------------------|
| 11/14/00 11:46 AM | 7.00  | 10440 (LT23C) | 11.8                    | 7.09              | 8.72             | 80.8                  | 172                         | *                     | 0.23                   | 35.5                   | 120                     | *                    | 16                          | *                     | 0.29                       | *                        | 6                 | 64                        | 69                      | 3.9                    | 8.5                   |
| 11/14/00 10:59 AM | 7.00  | 10435 (LT23D) | 12.8                    | 7.17              | 9.45             | 89.6                  | 189                         | *                     | 0.51                   | 21.6                   | 22                      | *                    | 29.6                        | *                     | 0.31                       | *                        | 6                 | 73                        | 72                      | 4.3                    | 7.6                   |
| 11/14/00 10:10 AM | 7.00  | 10434 (LT23A) | 15.2                    | 6.96              | 9.17             | 91.3                  | 195                         | *                     | 0.88                   | 6.29                   | 3                       | *                    | 20                          | *                     | 0.4                        | *                        | 5                 | 75                        | 72                      | 4.6                    | 7.6                   |
| 11/14/00 9:06 AM  | 6.12  | 10461 (LF3)   | 14.4                    | 6.63              | 7.45             | 74                    | 148                         | *                     | 1.24                   | 3.97                   | 5                       | *                    | 4.8                         | *                     | 0.33                       | *                        | 6                 | 28                        | 38                      | 12.6                   | 13.7                  |
| 11/14/00 9:30 AM  | 6.12  | 10462 (LF4)   | 15.2                    | 6.57              | 8.07             | 80.4                  | 146                         | *                     | 1.23                   | 4.93                   | 3                       | *                    | 4.8                         | *                     | 0.32                       | *                        | 6                 | 27                        | 40                      | 11.4                   | 14                    |
| 11/14/00 8:13 AM  | 6.12  | 10458 (LF2)   | 12.7                    | 6.8               | 8.63             | 82.9                  | 150                         | *                     | 1.57                   | 2.84                   | 2                       | *                    | 7.2                         | *                     | 0.36                       | *                        | 6                 | 31                        | 40                      | 12.1                   | 12.7                  |
| 11/14/00 1:32 PM  | 6.10  | 10469 (LF20)  | 9.43                    | 6.89              | 10.2             | 89.2                  | 199                         | *                     | 0.4                    | 45.1                   | 510                     | 320                  | *                           | *                     | 0.21                       | 0.03                     | 8                 | 25                        | 44                      | 22.3                   | 36.8                  |
| 11/14/00 2:20 PM  | 6.04  | 14500 (HRS16) | 8.92                    | 6.63              | 9.2              | 79.4                  | 151                         | *                     | 0.38                   | 54.6                   | 820                     | 820                  | *                           | *                     | 0.16                       | < 0.02                   | 8                 | 7                         | 36                      | 11.5                   | 32.9                  |
| 11/15/00 7:47 AM  | 6.02  | 10467 (BS18)  | 8.25                    | 6.16              | 10.5             | 88.9                  | 155                         | *                     | 1.13                   | 10.1                   | 132                     | 132                  | *                           | *                     | 0.18                       | < 0.02                   | 8                 | 4                         | 40                      | 15.8                   | 31.2                  |
| 11/14/00 12:35 PM | 6.00  | 17065 (SR22)  | 8.94                    | 7.05              | 10.4             | 90                    | 109                         | *                     | 0.26                   | 155                    | > 1200                  | > 1200               | *                           | *                     | 0.24                       | 0.29                     | 10                | 23                        | 40                      | 5.6                    | 12                    |
| 11/14/00 1:11 PM  | 6.00  | 10430 (SR21)  | 9.24                    | 7.06              | 10.4             | 90.6                  | 263                         | *                     | 0.2                    | 97.9                   | > 1200                  | > 1200               | *                           | *                     | 0.33                       | 0.18                     | 9                 | 24                        | 60                      | 36.9                   | 32.2                  |
| 11/14/00 1:51 PM  | 6.00  | 10429 (SR19)  | 10.1                    | 6.81              | 10.2             | 90.9                  | 195                         | *                     | 0.35                   | 54                     | 200                     | 192                  | *                           | *                     | 0.35                       | 0.08                     | 8                 | 18                        | 48                      | 19.4                   | 31.6                  |
| 11/15/00 8:10 AM  | 5.00  | 10428 (SR17)  | 9.42                    | 6.29              | 10.1             | 88.5                  | 166                         | *                     | 0.44                   | 45.4                   | 480                     | 260                  | *                           | *                     | 0.27                       | 0.04                     | 8                 | 13                        | 40                      | 16.2                   | 28.1                  |
| 11/15/00 8:30 AM  | 5.00  | 10427 (SR16)  | 9.76                    | 6.34              | 10               | 88                    | 172                         | *                     | 0.42                   | 45.5                   | 380                     | > 240                | *                           | *                     | 0.28                       | 0.07                     | 8                 | 13                        | 44                      | 19                     | 26.4                  |
| 11/15/00 8:48 AM  | 5.00  | 10426 (SR15)  | 9.92                    | 6.43              | 9.9              | 87.5                  | 173                         | *                     | 0.48                   | 52.6                   | 202                     | 220                  | *                           | *                     | 0.27                       | 0.05                     | 9                 | 14                        | 40                      | 19.3                   | 25.5                  |
| 11/15/00 9:09 AM  | 5.00  | 10423 (SR14)  | 10.2                    | 6.42              | 9.86             | 87.7                  | 174                         | *                     | 0.35                   | 60.7                   | 180                     | 320                  | *                           | *                     | 0.36                       | 0.06                     | 8                 | 14                        | 44                      | 20.5                   | 23.9                  |
| 11/15/00 10:38 AM | 5.00  | 13628 (SR11)  | 10.6                    | 6.44              | 9.79             | 88.1                  | 205                         | *                     | 0.45                   | 91.3                   | 720                     | 860                  | *                           | *                     | 0.32                       | 0.03                     | 7                 | 16                        | 40                      | 28.8                   | 24.2                  |
| 11/15/00 11:10 AM | 5.00  | 10415 (SR10)  | 11.1                    | 6.51              | 9.57             | 87.1                  | 220                         | *                     | 0.31                   | 113                    | 660                     | 880                  | *                           | *                     | 0.56                       | < 0.02                   | 6                 | 18                        | 48                      | 28.9                   | 28.9                  |

\*: Not sampled on this run

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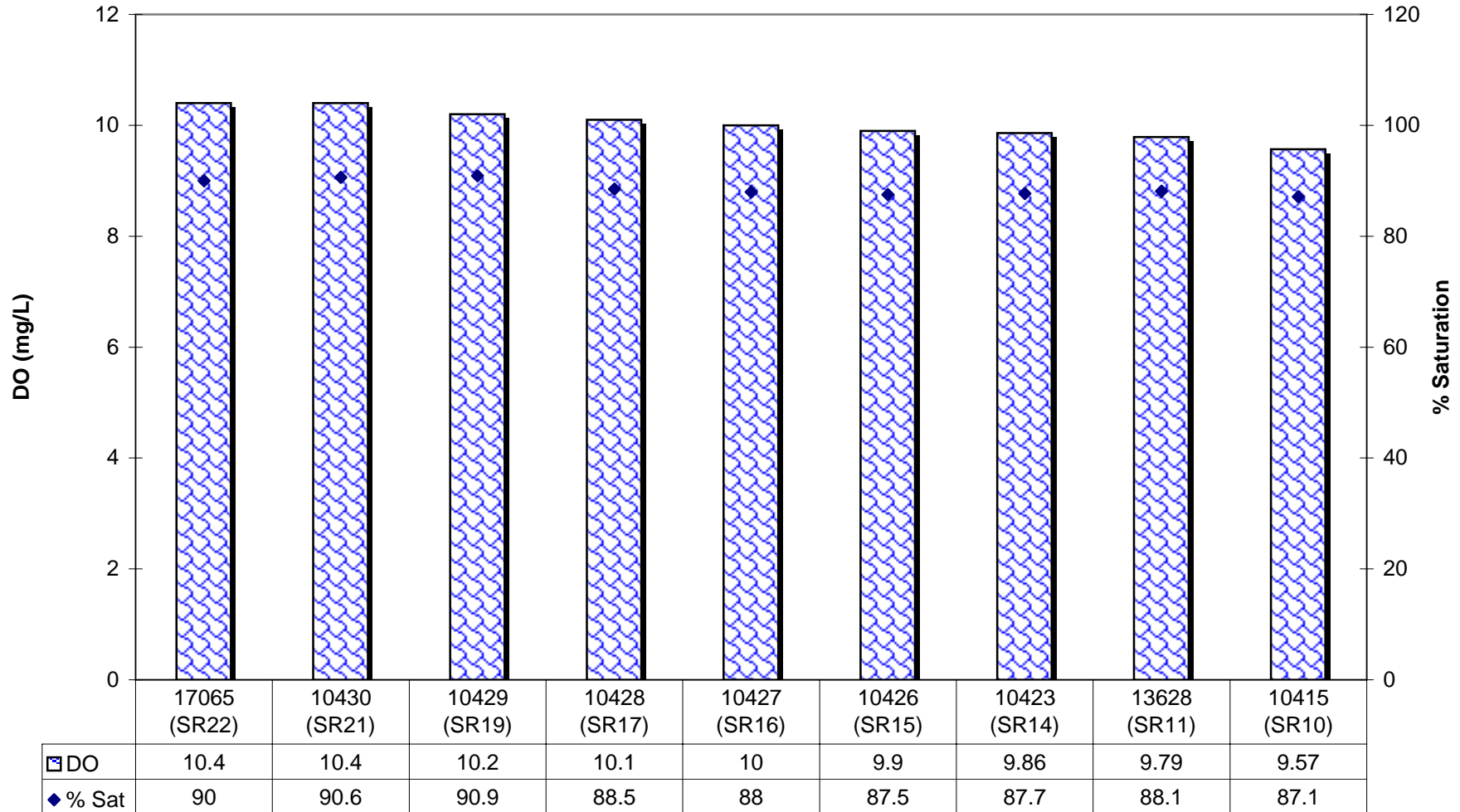
## Upper Sabine Basin DO / % Saturation (1 of 2)



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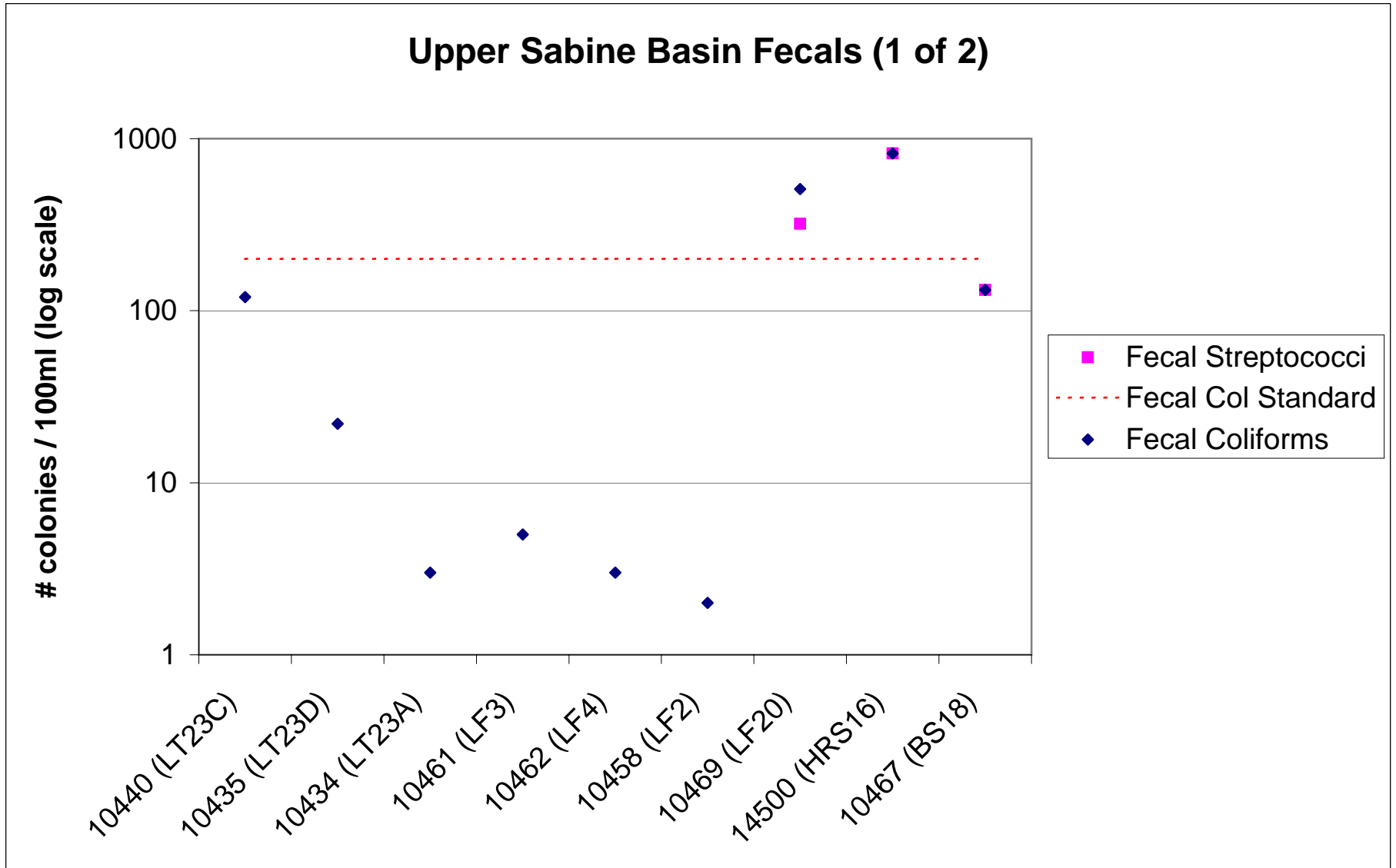
November 2000

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



# SABINE RIVER AUTHORITY OF TEXAS

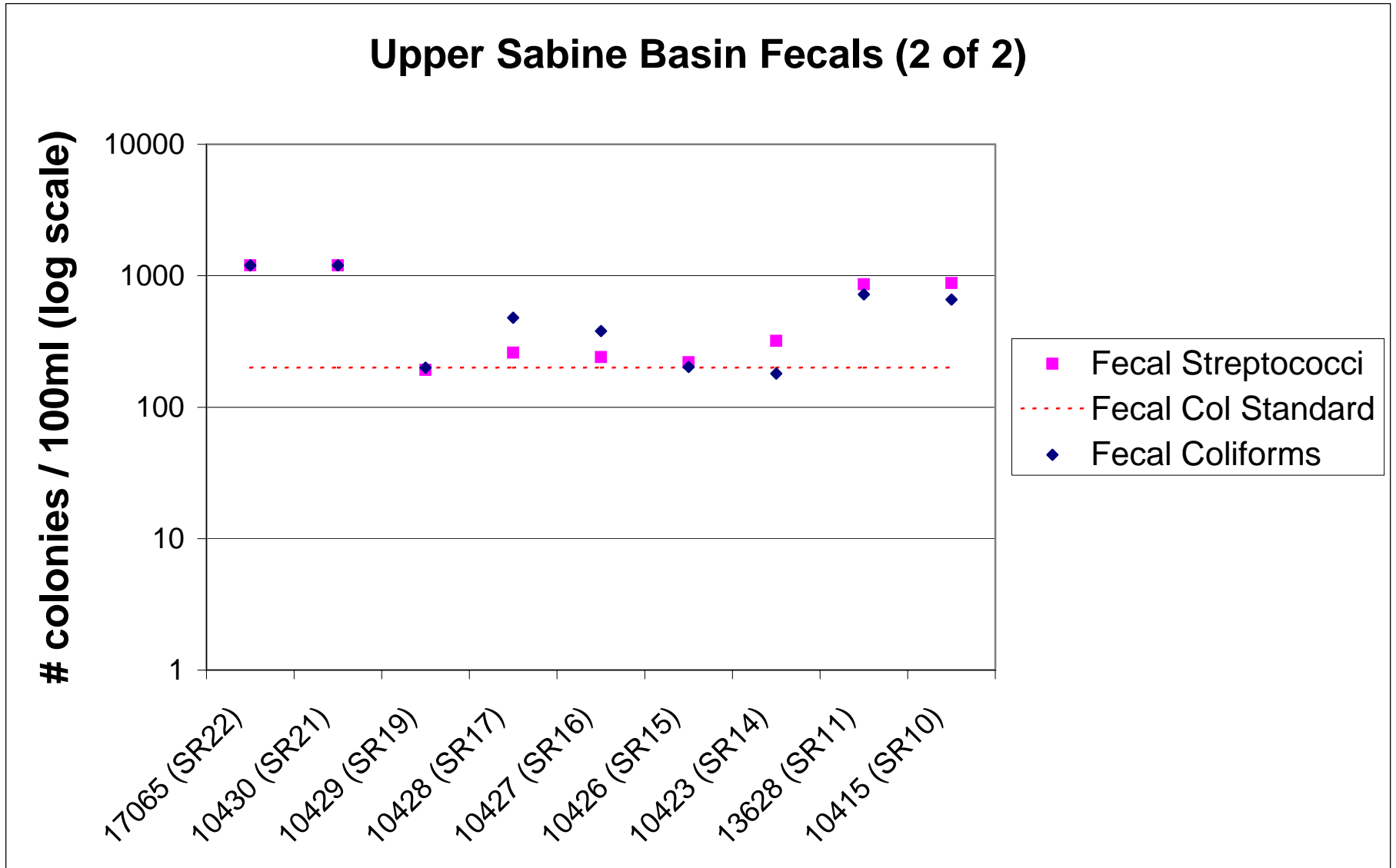
November 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

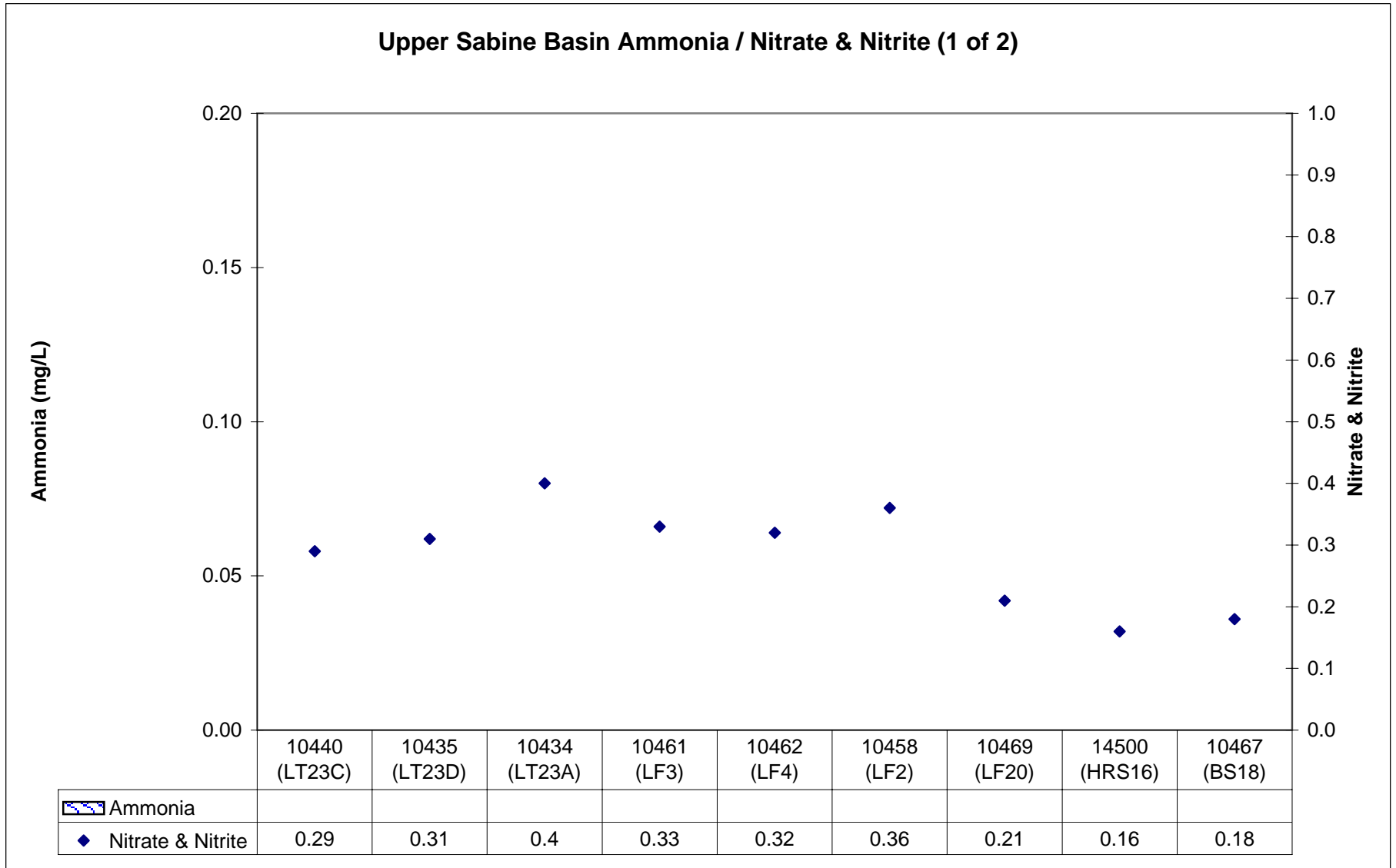
November 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

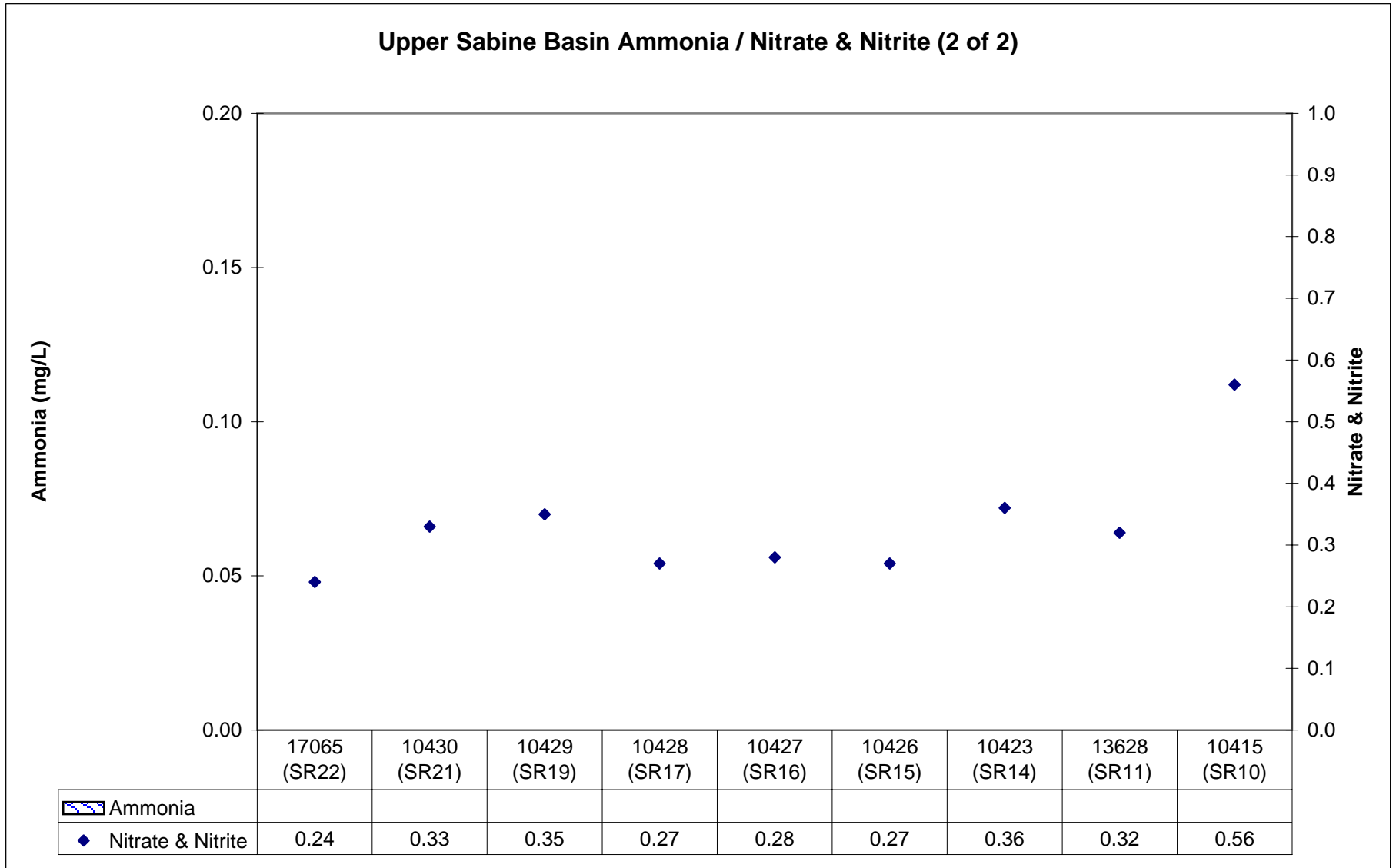
November 2000



Stations without values were not sampled on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

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Stations without values were not sampled on this run (see page 2).

# SABINE RIVER AUTHORITY OF TEXAS

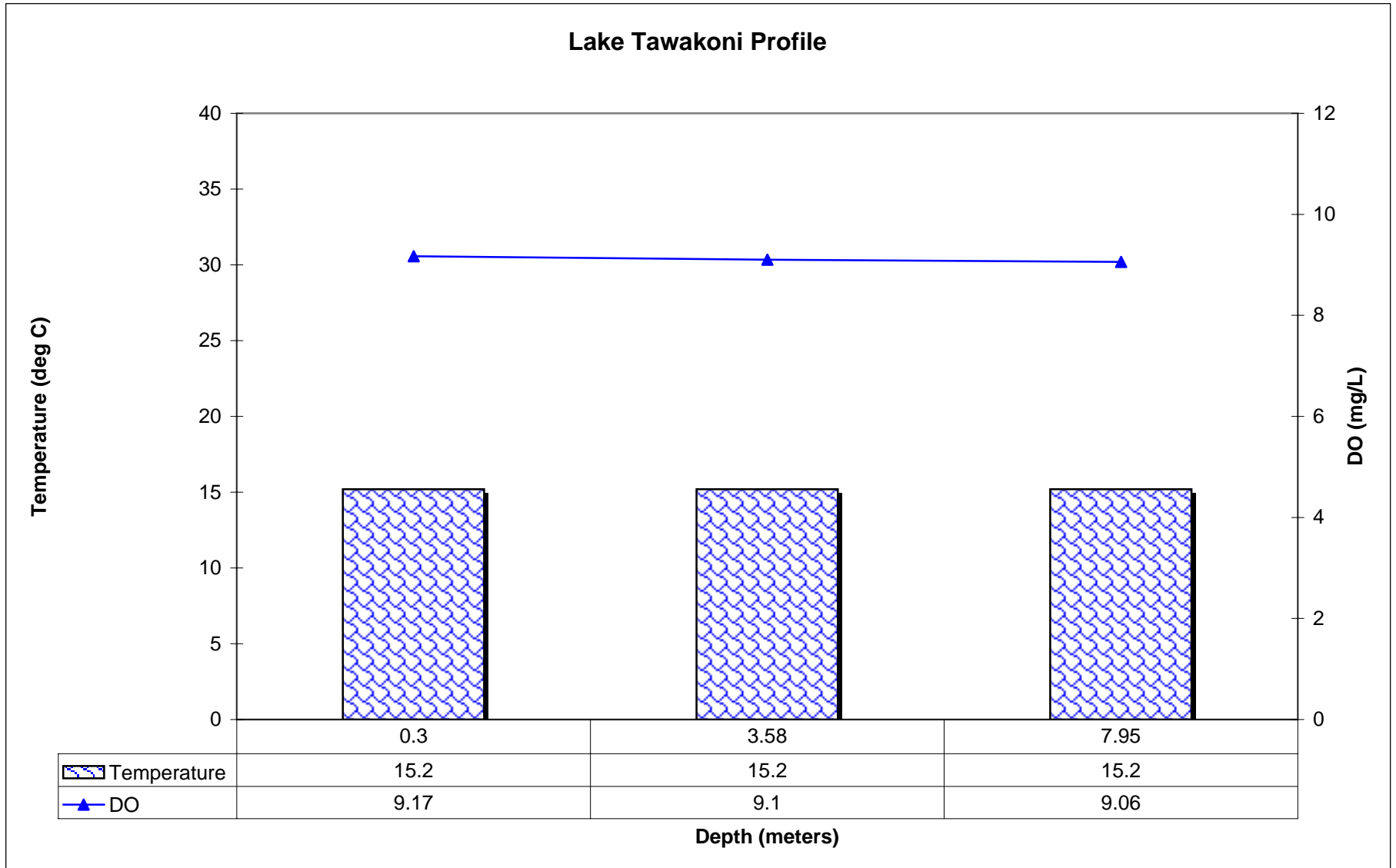
## Upper Basin Profiles

November 2000

| Date              | SW ID | Station       | Depth Meters | Temperature | pH             | DO            | %                   | Conductivity   |
|-------------------|-------|---------------|--------------|-------------|----------------|---------------|---------------------|----------------|
|                   |       |               |              | °C<br>00010 | Units<br>00400 | mg/L<br>00300 | Saturation<br>00301 | µS/cm<br>00094 |
| 11/14/00 11:46 AM | 7.00  | 10440 (LT23C) | 0.3          | 11.8        | 7.09           | 8.72          | 80.8                | 172            |
|                   |       |               | 2.78         | 10.9        | 7.1            | 8.51          | 77.2                | 170            |
|                   |       |               | 4.46         | 10.9        | 7.19           | 8.53          | 77                  | 167            |
| 11/14/00 10:59 AM | 7.00  | 10435 (LT23D) | 0.3          | 12.8        | 7.17           | 9.45          | 89.6                | 189            |
|                   |       |               | 4            | 10.3        | 7.12           | 9.91          | 88.4                | 185            |
|                   |       |               | 7.18         | 10.2        | 7.11           | 9.96          | 88.6                | 185            |
| 11/14/00 10:10 AM | 7.00  | 10434 (LT23A) | 0.3          | 15.2        | 6.96           | 9.17          | 91.3                | 195            |
|                   |       |               | 3.58         | 15.2        | 6.85           | 9.1           | 90.7                | 195            |
|                   |       |               | 7.95         | 15.2        | 6.78           | 9.06          | 90.2                | 194            |
| 11/14/00 9:06 AM  | 6.12  | 10461 (LF3)   | 0.3          | 14.4        | 6.63           | 7.45          | 74                  | 148            |
|                   |       |               | 4.7          | 14.4        | 6.62           | 7.45          | 73.9                | 148            |
|                   |       |               | 10.1         | 14.2        | 6.59           | 7.41          | 73.4                | 147            |
| 11/14/00 9:30 AM  | 6.12  | 10462 (LF4)   | 0.3          | 15.2        | 6.57           | 8.07          | 80.4                | 146            |
|                   |       |               | 6.05         | 15.2        | 6.59           | 7.99          | 79.5                | 146            |
|                   |       |               | 11.2         | 14.9        | 6.62           | 8.09          | 79.9                | 145            |
| 11/14/00 8:13 AM  | 6.12  | 10458 (LF2)   | 0.3          | 12.7        | 6.8            | 8.63          | 82.9                | 150            |
|                   |       |               | 5.3          | 16.3        | 6.29           | 7.98          | 81.3                | 152            |
|                   |       |               | 10.6         | 16.2        | 6.17           | 7.99          | 81.3                | 153            |
|                   |       |               | 14           | 16.2        | 6.08           | 7.89          | 80.6                | 153            |
|                   |       |               | 15.7         | 16.2        | 5.91           | 4.48          | 40.7                | 152            |

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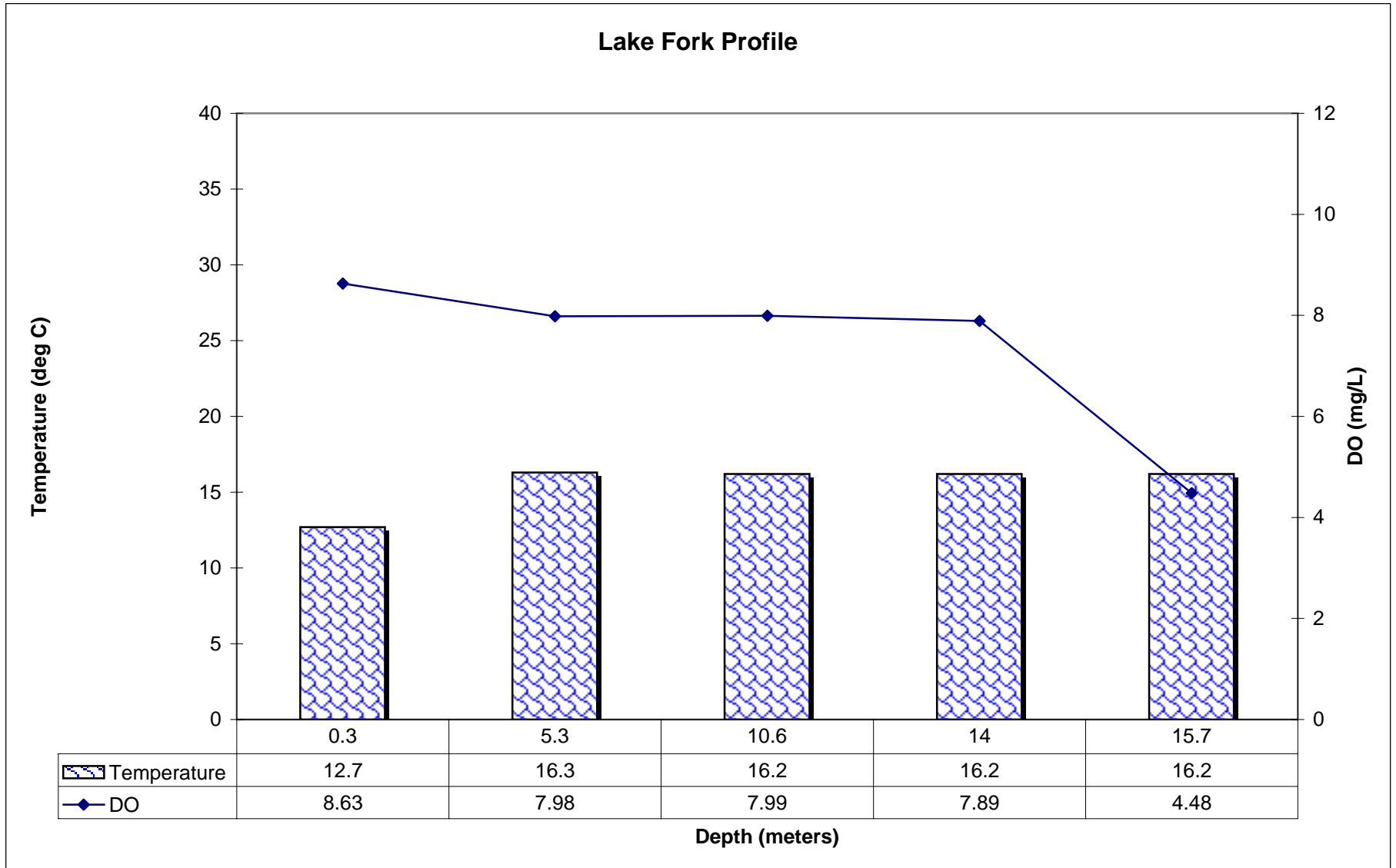
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For Station 10434 (LT23A): LAKE TAWAKONI IN THE MAIN LAKE NEAR THE DAM IN THE OLD RIVER CHANNEL

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## Lake Tawakoni Weather and Reservoir Data

November 2000

| Date              | Lake Elev | LE - TOP | Releases inst | Max Temp | Min Temp | Rainfall | Evap |
|-------------------|-----------|----------|---------------|----------|----------|----------|------|
| 11/01/2000        | 434.46    | (3.04)   | 5             | 82       | 67       | 0.00     | 0.17 |
| 11/02/2000        | 434.62    | (2.88)   | 5             | 82       | 66       | 2.31     | 0.00 |
| 11/03/2000        | 434.61    | (2.89)   | 5             | 80       | 57       | 0.21     | 0.15 |
| 11/04/2000        | 434.67    | (2.83)   | 5             | 68       | 63       | 0.99     | 0.00 |
| 11/05/2000        | 434.67    | (2.83)   | 5             | 66       | 60       | 0.02     | 0.03 |
| 11/06/2000        | 435.17    | (2.33)   | 5             | 68       | 60       | 4.38     | 0.00 |
| 11/07/2000        | 435.66    | (1.84)   | 5             | 68       | 46       | 0.00     | 0.25 |
| 11/08/2000        | 436.14    | (1.36)   | 5             | 51       | 42       | 1.09     | 0.00 |
| 11/09/2000        | 436.20    | (1.30)   | 5             | 43       | 38       | 0.22     | 0.21 |
| 11/10/2000        | 436.20    | (1.30)   | 5             | 52       | 32       | 0.00     | 0.08 |
| 11/11/2000        | 436.20    | (1.30)   | 5             | 58       | 34       | 0.00     | 0.09 |
| 11/12/2000        | 436.18    | (1.32)   | 5             | 49       | 39       | 0.00     | 0.06 |
| 11/13/2000        | 436.50    | (1.00)   | 5             | 49       | 33       | 0.82     | NR   |
| 11/14/2000        | 436.66    | (0.84)   | 5             | 48       | 29       | 0.00     | 0.08 |
| 11/15/2000        | 436.64    | (0.86)   | 5             | 52       | 31       | 0.00     | 0.06 |
| 11/16/2000        | 436.66    | (0.84)   | 5             | 54       | 34       | 0.09     | 0.08 |
| 11/17/2000        | 436.64    | (0.86)   | 5             | 55       | 35       | 0.00     | 0.08 |
| 11/18/2000        | 436.58    | (0.92)   | 5             | 54       | 36       | 0.00     | 0.14 |
| 11/19/2000        | 436.57    | (0.93)   | 5             | 42       | 34       | 0.02     | 0.03 |
| 11/20/2000        | 436.55    | (0.95)   | 5             | 55       | 33       | 0.00     | 0.09 |
| 11/21/2000        | 436.53    | (0.97)   | 5             | 55       | 32       | 0.00     | 0.12 |
| 11/22/2000        | 436.50    | (1.00)   | 5             | 59       | 33       | 0.00     | 0.08 |
| 11/23/2000        | 436.48    | (1.02)   | 5             | 59       | 40       | 0.23     | 0.03 |
| 11/24/2000        | 436.75    | (0.75)   | 5             | 53       | 51       | 1.20     | 0.00 |
| 11/25/2000        | 437.61    | 0.11     | 45            | 56       | 46       | 0.37     | 0.00 |
| 11/26/2000        | 438.06    | 0.56     | 665           | 60       | 42       | 0.00     | 0.21 |
| 11/27/2000        | 438.07    | 0.57     | 665           | 59       | 36       | 0.00     | 0.21 |
| 11/28/2000        | 438.02    | 0.52     | 505           | 65       | 37       | 0.00     | 0.08 |
| 11/29/2000        | 438.02    | 0.52     | 505           | 70       | 46       | 0.00     | 0.05 |
| 11/30/2000        | 437.93    | 0.43     | 355           | 62       | 34       | 0.00     | 0.14 |
| <b>Avg or Tot</b> | 436.39    | (1.12)   | 95            | 59       | 42       | 11.95    | 2.52 |

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

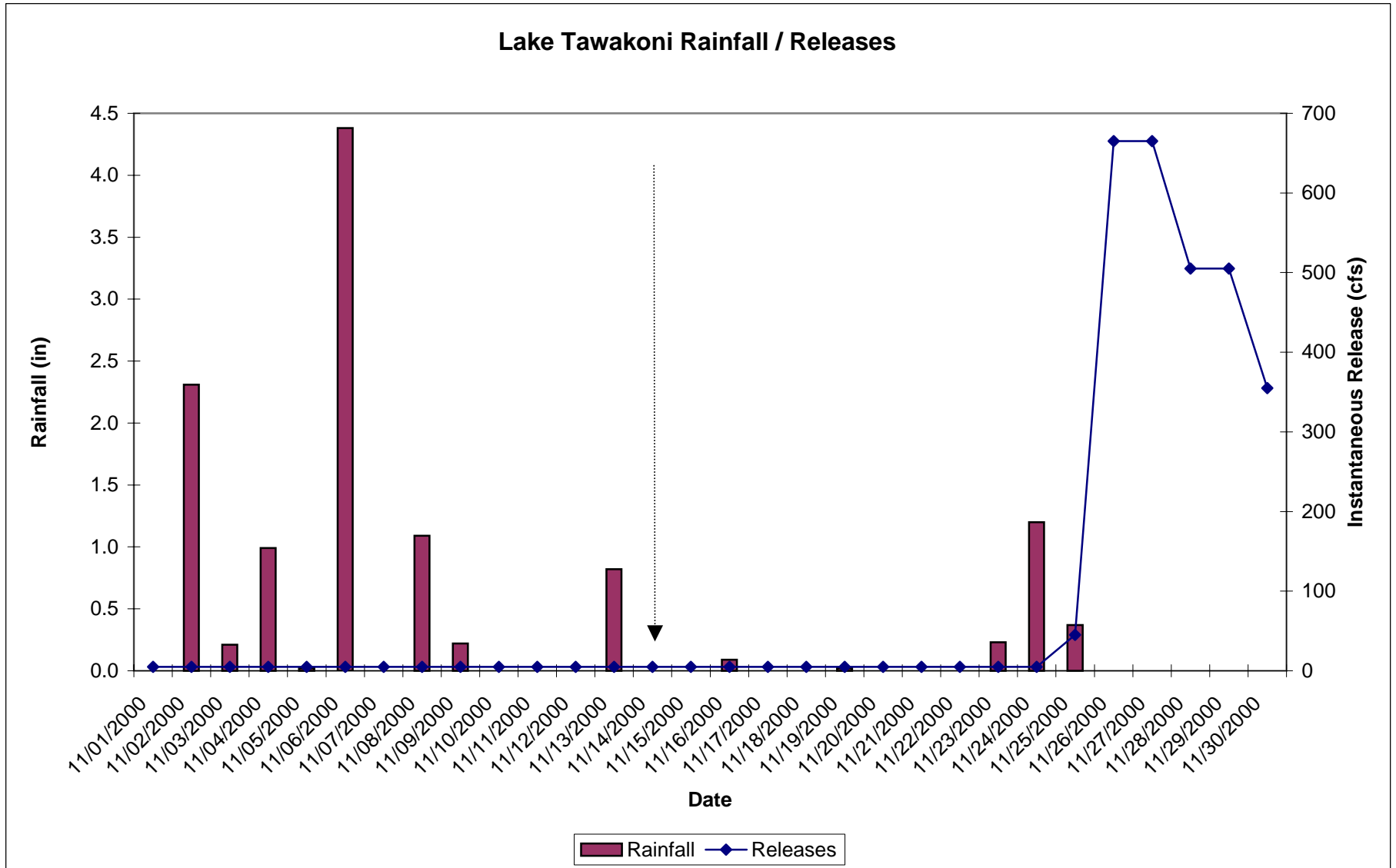
NR: No Reading

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

Lake Tawakoni Sampled on 11/14/2000

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Please Note : Lake Tawakoni has an uncontrolled spillway.

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## Lake Fork Weather and Reservoir Data

November 2000

| Date              | Lake Elev     | LE - TOP      | Releases avg | Releases cur | Max Temp  | Min Temp  | Rainfall     | Evap        |
|-------------------|---------------|---------------|--------------|--------------|-----------|-----------|--------------|-------------|
| 11/01/2000        | 400.64        | (2.36)        | 46           | 6            | 73        | 70        | 0.00         | 0.21        |
| 11/02/2000        | 400.69        | (2.31)        | 6            | 6            | 79        | 63        | 1.23         | 0.00        |
| 11/03/2000        | 400.78        | (2.22)        | 6            | 6            | 78        | 59        | 0.32         | 0.00        |
| 11/04/2000        | 400.90        | (2.10)        | 0            | 0            | 67        | 65        | 1.68         | 0.00        |
| 11/05/2000        | 400.89        | (2.11)        | 6            | 6            | 67        | 61        | 0.02         | 0.07        |
| 11/06/2000        | 401.14        | (1.86)        | 6            | 6            | 70        | 60        | 1.45         | 0.00        |
| 11/07/2000        | 401.64        | (1.36)        | 6            | 6            | 71        | 46        | 0.00         | 0.19        |
| 11/08/2000        | 401.94        | (1.06)        | 6            | 6            | 68        | 44        | 2.50         | 0.00        |
| 11/09/2000        | 402.09        | (0.91)        | 6            | 6            | 45        | 38        | 0.15         | 0.05        |
| 11/10/2000        | 402.09        | (0.91)        | 6            | 6            | 52        | 34        | 0.00         | 0.09        |
| 11/11/2000        | 402.09        | (0.91)        | 6            | 6            | 58        | 39        | 0.00         | 0.08        |
| 11/12/2000        | 402.12        | (0.88)        | 6            | 6            | 48        | 40        | 0.00         | 0.04        |
| 11/13/2000        | 402.34        | (0.66)        | 6            | 6            | 49        | 35        | 1.02         | 0.00        |
| 11/14/2000        | 402.49        | (0.51)        | 6            | 6            | 49        | 34        | 0.00         | 0.03        |
| 11/15/2000        | 402.49        | (0.51)        | 6            | 6            | 53        | 33        | 0.00         | 0.09        |
| 11/16/2000        | 402.54        | (0.46)        | 6            | 6            | 54        | 36        | 0.08         | 0.02        |
| 11/17/2000        | 402.54        | (0.46)        | 6            | 6            | 55        | 38        | 0.00         | 0.08        |
| 11/18/2000        | 402.54        | (0.46)        | 6            | 6            | 47        | 38        | 0.00         | 0.06        |
| 11/19/2000        | 402.54        | (0.46)        | 6            | 6            | 41        | 35        | 0.00         | 0.03        |
| 11/20/2000        | 402.54        | (0.46)        | 6            | 6            | 57        | 31        | 0.00         | 0.10        |
| 11/21/2000        | 402.54        | (0.46)        | 6            | 6            | 57        | 28        | 0.00         | 0.11        |
| 11/22/2000        | 402.54        | (0.46)        | 6            | 6            | 59        | 28        | 0.00         | 0.10        |
| 11/23/2000        | 402.57        | (0.43)        | 6            | 6            | 60        | 39        | 0.13         | 0.00        |
| 11/24/2000        | 402.83        | (0.17)        | 6            | 6            | 54        | 48        | 2.40         | 0.00        |
| 11/25/2000        | 403.19        | 0.19          | 6            | 2785         | 54        | 47        | 0.10         | 0.00        |
| 11/26/2000        | 403.14        | 0.14          | 2785         | 2785         | 60        | 43        | 0.00         | 0.07        |
| 11/27/2000        | 402.94        | (0.06)        | 2785         | 2065         | 59        | 38        | 0.00         | 0.13        |
| 11/28/2000        | 402.79        | (0.21)        | 2065         | 1371         | 68        | 40        | 0.00         | 0.08        |
| 11/29/2000        | 402.74        | (0.26)        | 1371         | 6            | 70        | 48        | 0.07         | 0.00        |
| 11/30/2000        | 402.74        | (0.26)        | 6            | 6            | 64        | 32        | 0.00         | 0.12        |
| <b>Avg or Tot</b> | <b>402.17</b> | <b>(0.83)</b> | <b>307</b>   | <b>305</b>   | <b>60</b> | <b>43</b> | <b>11.15</b> | <b>1.75</b> |

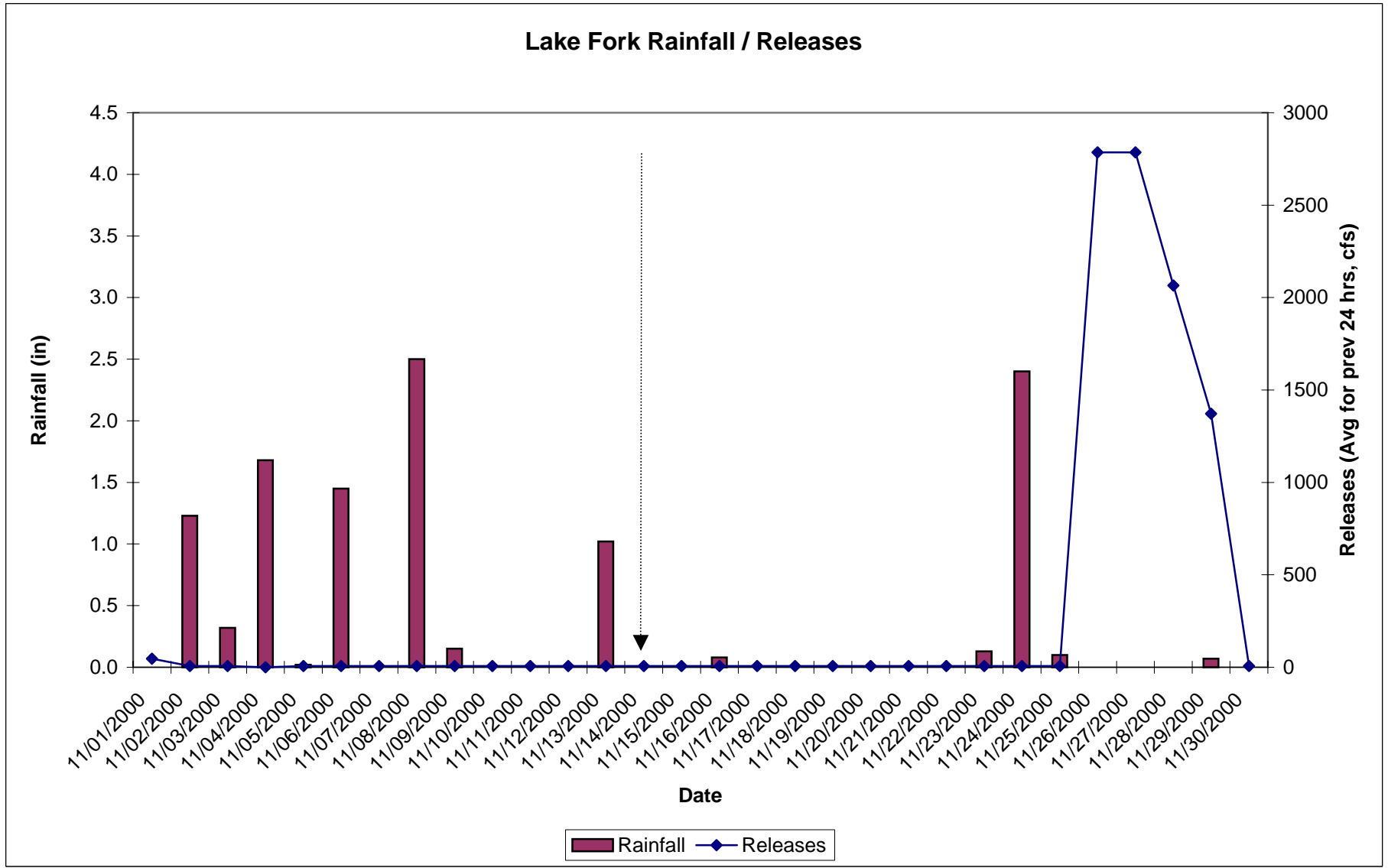
|       |                 |          |                         |     |           |           |            |            |
|-------|-----------------|----------|-------------------------|-----|-----------|-----------|------------|------------|
| Units | Avg Feet M.S.L. | Avg Feet | Avg cfs Previous 24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

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

Lake Fork Sampled on 11/14/2000

# SABINE RIVER AUTHORITY OF TEXAS

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# Current WQMP Stations

## Lower Sabine Basin

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

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Report

November 2000

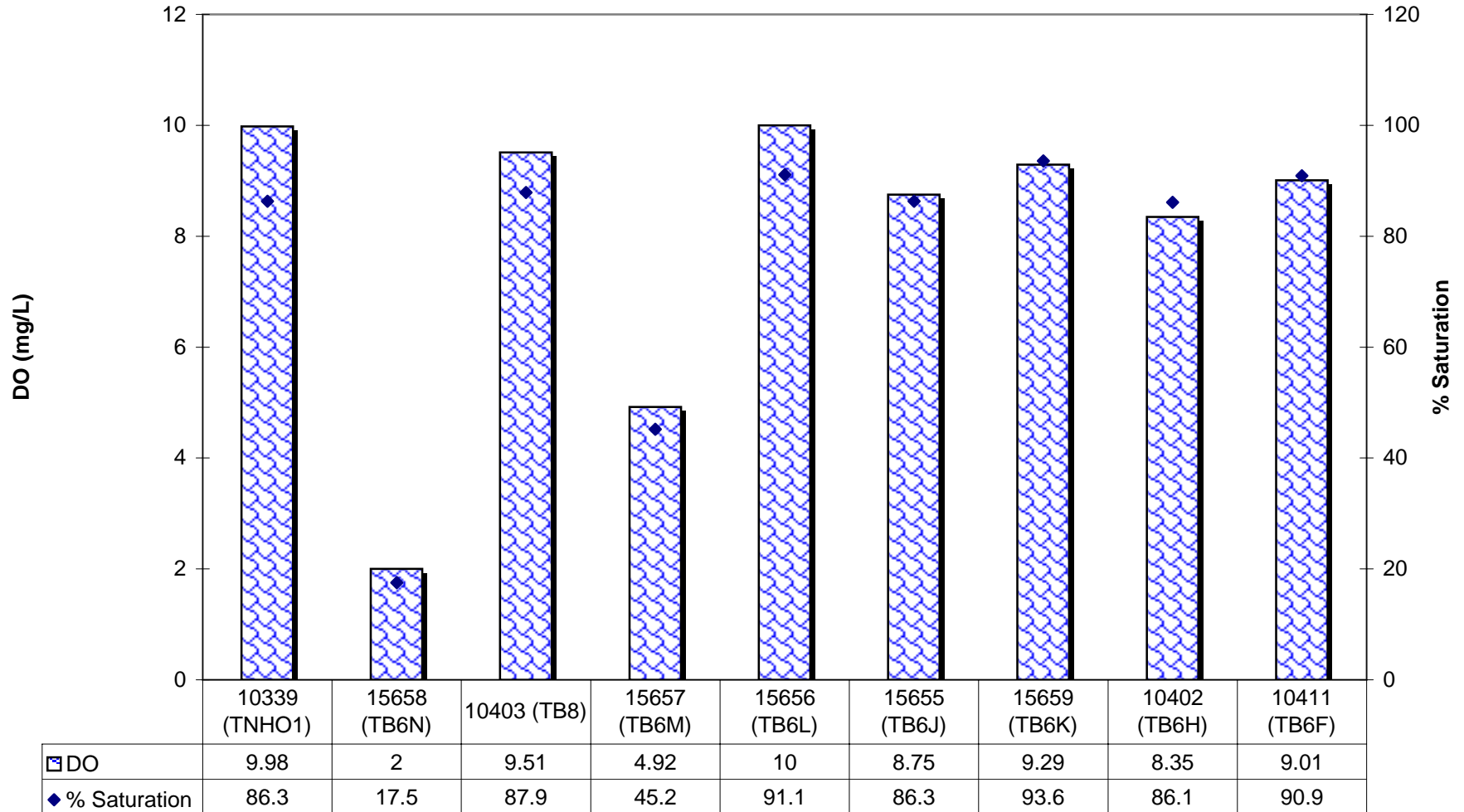
| Date              | SW ID | Station       | Temperature | pH             | DO            | %                   | Conductivity   | Salinity     | Secchi          | Turbidity    | Fecal             | Fecal          | Chlorophyll a | Ammonia       | Nitrate &        | Ortho-             | TOC           | Total               | Total             | Chloride      | Sulfate       |
|-------------------|-------|---------------|-------------|----------------|---------------|---------------------|----------------|--------------|-----------------|--------------|-------------------|----------------|---------------|---------------|------------------|--------------------|---------------|---------------------|-------------------|---------------|---------------|
|                   |       |               | °C<br>00010 | Units<br>00400 | mg/L<br>00300 | Saturation<br>00301 | µS/cm<br>00094 | ppt<br>00480 | Meters<br>00078 | NTU<br>82079 | Coliform<br>31616 | Strep<br>31673 | µg/L<br>32211 | mg/L<br>00610 | Nitrite<br>00630 | Phosphate<br>00671 | mg/L<br>00680 | Alkalinity<br>00410 | Hardness<br>00900 | mg/L<br>00940 | mg/L<br>00945 |
| 11/15/00 12:12 PM | 4.14  | 10339 (TNHO1) | 8.99        | 6.72           | 9.98          | 86.3                | 308            | *            | > 0.45          | 36.4         | 380               | 440            | *             | *             | 3.1              | 2.4                | 8             | 42                  | 44                | 28.6          | 38.5          |
| 11/15/00 12:55 PM | 4.10  | 15658 (TB6N)  | 10.1        | 7.46           | 2             | 17.5                | 1242           | *            | 0.24            | 23.7         | 640               | 120            | *             | *             | 0.06             | 7.87               | 26            | 405                 | 56                | 103           | 22.2          |
| 11/15/00 11:41 AM | 4.00  | 10403 (TB8)   | 11.8        | 6.63           | 9.51          | 87.9                | 264            | *            | 0.33            | 86.9         | 168               | 208            | *             | *             | 0.4              | 0.02               | 7             | 17                  | 44                | 37.4          | 35.7          |
| 11/15/00 1:25 PM  | 4.00  | 15657 (TB6M)  | 11.8        | 6.61           | 4.92          | 45.2                | 244            | *            | 0.53            | 12           | 78                | *              | *             | 0.019         | 0.02             | < 0.02             | 9             | 21                  | 52                | 27.9          | 36.2          |
| 11/15/00 1:08 PM  | 4.00  | 15656 (TB6L)  | 11.1        | 7.7            | 10            | 91.1                | 222            | *            | 0.3             | 44.8         | 15                | *              | *             | 0.061         | 0.41             | < 0.02             | 7             | 10                  | 32                | 25.9          | 38.9          |
| 11/15/00 10:25 AM | 4.00  | 15655 (TB6J)  | 14.7        | 7.4            | 8.75          | 86.3                | 199            | *            | 0.87            | 5.33         | 2                 | *              | *             | *             | 0.04             | < 0.02             | 6             | 32                  | 40                | 21.2          | 18.6          |
| 11/15/00 12:35 PM | 4.00  | 15659 (TB6K)  | 15.8        | 7.63           | 9.29          | 93.6                | 197            | *            | 0.86            | 6.52         | < 2               | *              | *             | 0.027         | < 0.02           | < 0.02             | 7             | 35                  | 44                | 21.3          | 16.4          |
| 11/15/00 11:35 AM | 4.00  | 10402 (TB6H)  | 16.9        | 7.45           | 8.35          | 86.1                | 197            | *            | 1.5             | 4.59         | 2                 | *              | 9.6           | *             | 0.11             | < 0.02             | 6             | 37                  | 44                | 21.4          | 15.1          |
| 11/15/00 11:15 AM | 4.00  | 10411 (TB6F)  | 15.7        | 7.61           | 9.01          | 90.9                | 182            | *            | 0.96            | 4.45         | < 2               | *              | 16            | *             | < 0.02           | < 0.02             | 6             | 33                  | 40                | 19            | 14.9          |
| 11/15/00 9:40 AM  | 4.00  | 10407 (TB6CN) | 13.7        | 8.01           | 9.58          | 92.7                | 144            | *            | 1.4             | 3.72         | 2                 | *              | *             | *             | 0.02             | < 0.02             | 6             | 25                  | 36                | 14.2          | 12.7          |
| 11/15/00 11:15 AM | 4.00  | 10404 (TB6A)  | 17.7        | 7.27           | 7.63          | 80.1                | 170            | *            | 1.96            | 1.48         | < 2               | *              | 4             | 0.026         | 0.06             | < 0.02             | 5             | 32                  | 40                | 15.7          | 12.6          |
| 11/15/00 1:15 PM  | 3.03  | 10340 (BA4)   | 13.9        | 7.46           | 9.18          | 89                  | 772            | *            | 0.28            | 14.9         | 128               | 132            | *             | *             | 0.57             | 0.07               | 31            | 62                  | 40                | 65.7          | 177           |
| 11/15/00 10:24 AM | 3.00  | 10401 (TB6S)  | 17.5        | 7.43           | 9.46          | 99                  | 169            | *            | > 0.8           | 1.75         | 24                | *              | *             | *             | 0.07             | < 0.02             | 5             | 32                  | 36                | 15.9          | 13.3          |
| 11/15/00 10:42 AM | 3.00  | 10400 (TB6)   | 17.6        | 7.39           | 8.29          | 86.6                | 169            | *            | > 0.7           | 1.66         | < 2               | *              | *             | 0.057         | 0.08             | < 0.02             | 5             | 32                  | 38                | 15.9          | 12.7          |
| 11/15/00 12:47 PM | 3.00  | 10399 (SR5)   | 15          | 7.17           | 8.87          | 88                  | 167            | *            | > 1.3           | 2.96         | 11                | *              | *             | *             | 0.07             | < 0.02             | 13            | 32                  | 36                | 14.9          | 12.1          |
| 11/15/00 1:37 PM  | 3.00  | 10398 (SR3)   | 13.5        | 7.22           | 9.5           | 91.2                | 258            | *            | 0.75            | 18.1         | 66                | *              | *             | 0.02          | 0.18             | < 0.02             | 12            | 30                  | 28                | 21.6          | 42.9          |
| 11/15/00 9:07 AM  | 2.05  | 10465 (BCC1)  | 11          | 6.53           | 9.88          | 89.5                | 66             | *            | 0.64            | 15.9         | > 120             | *              | *             | *             | 0.05             | < 0.02             | 10            | 7                   | 16                | 6.2           | 5.2           |
| 11/15/00 8:28 AM  | 2.00  | 10397 (SR2)   | 13.8        | 6.83           | 8.64          | 83.5                | 184            | *            | 0.31            | 58.7         | 138               | *              | *             | 0.009         | 0.13             | < 0.02             | 11            | 18                  | 24                | 15.2          | 29.7          |

\*: Not sampled on this run

# SABINE RIVER AUTHORITY OF TEXAS

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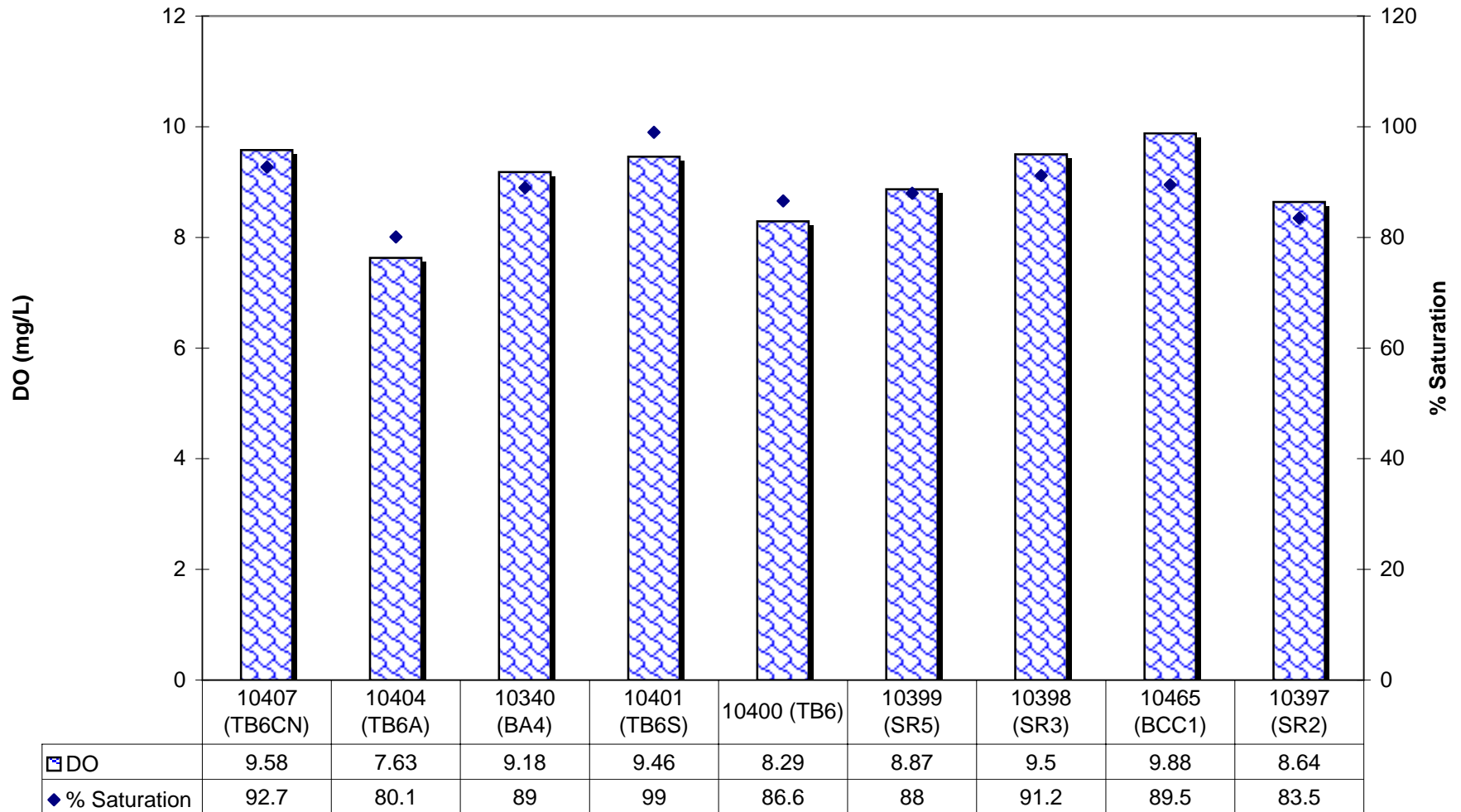
### Lower Sabine Basin DO / % Saturation (1 of 2)



# SABINE RIVER AUTHORITY OF TEXAS

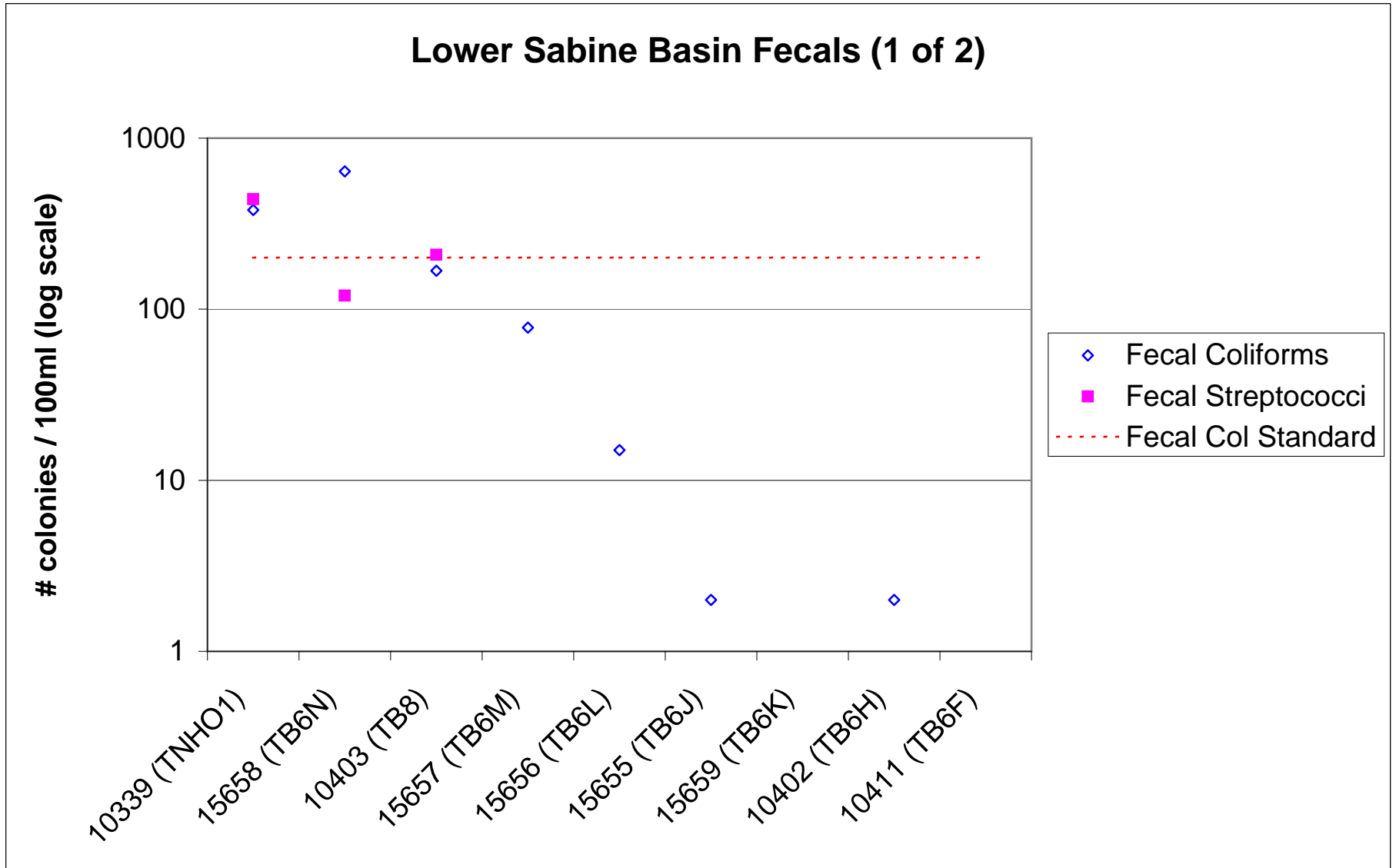
November 2000

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



# SABINE RIVER AUTHORITY OF TEXAS

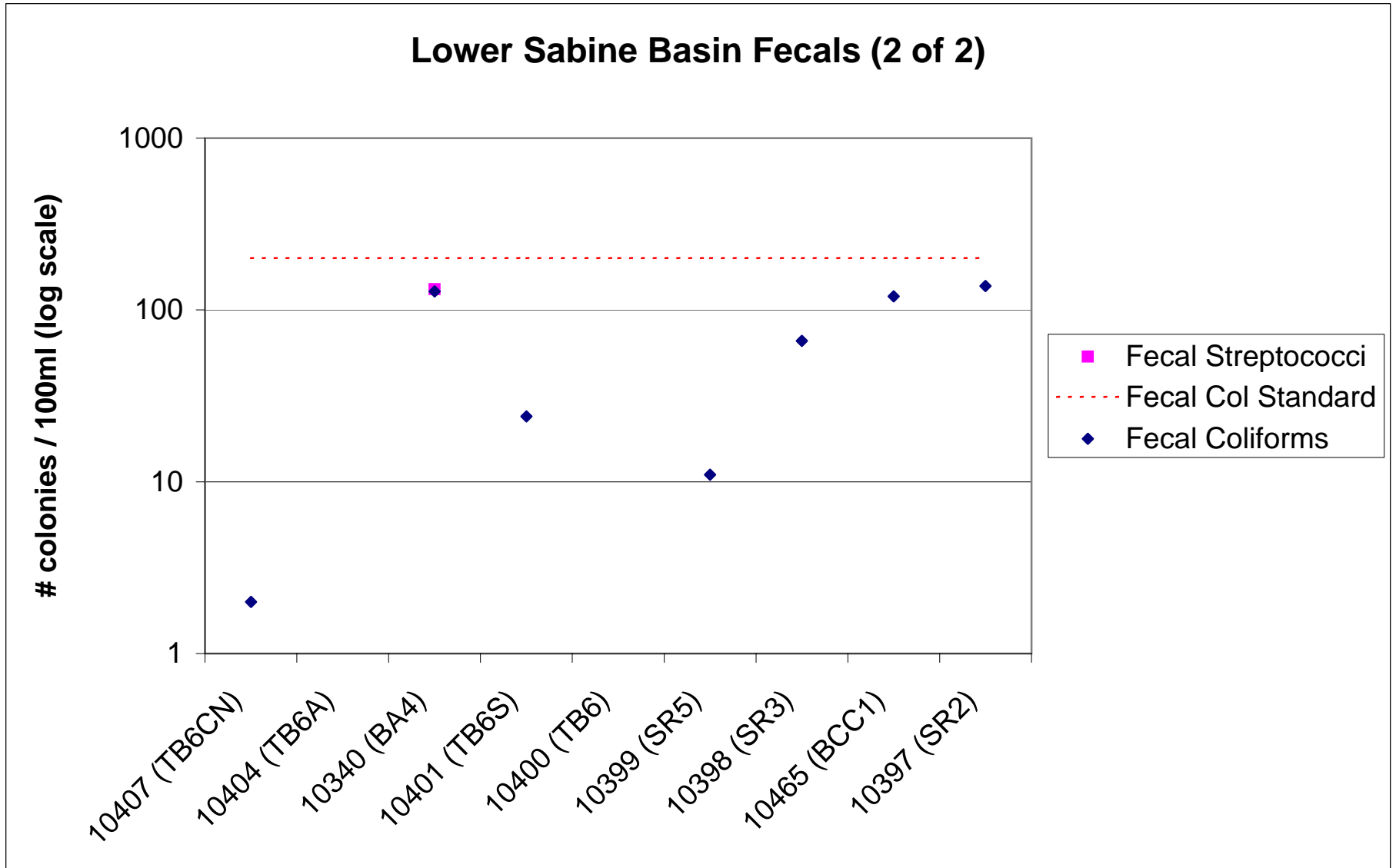
November 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

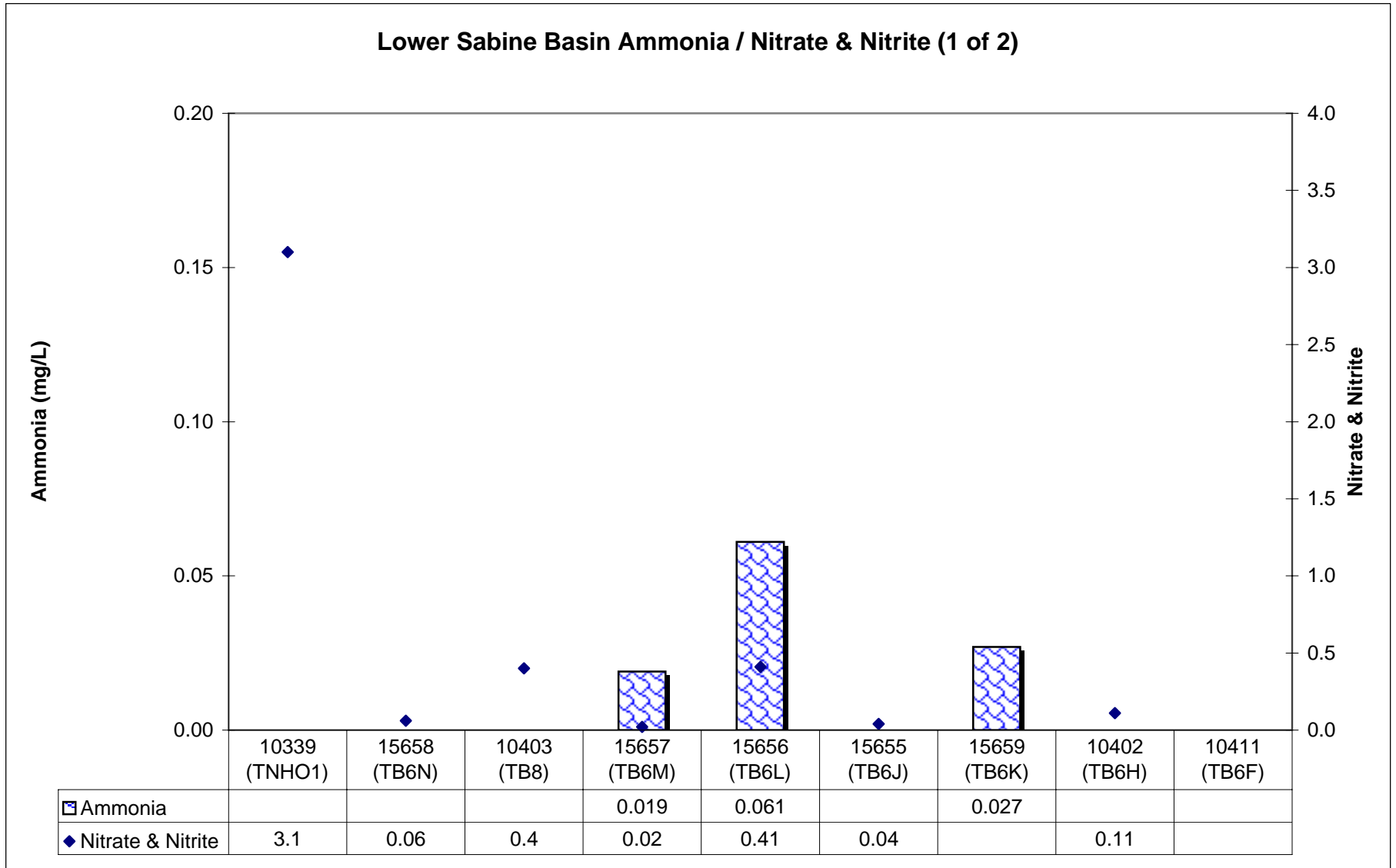
November 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

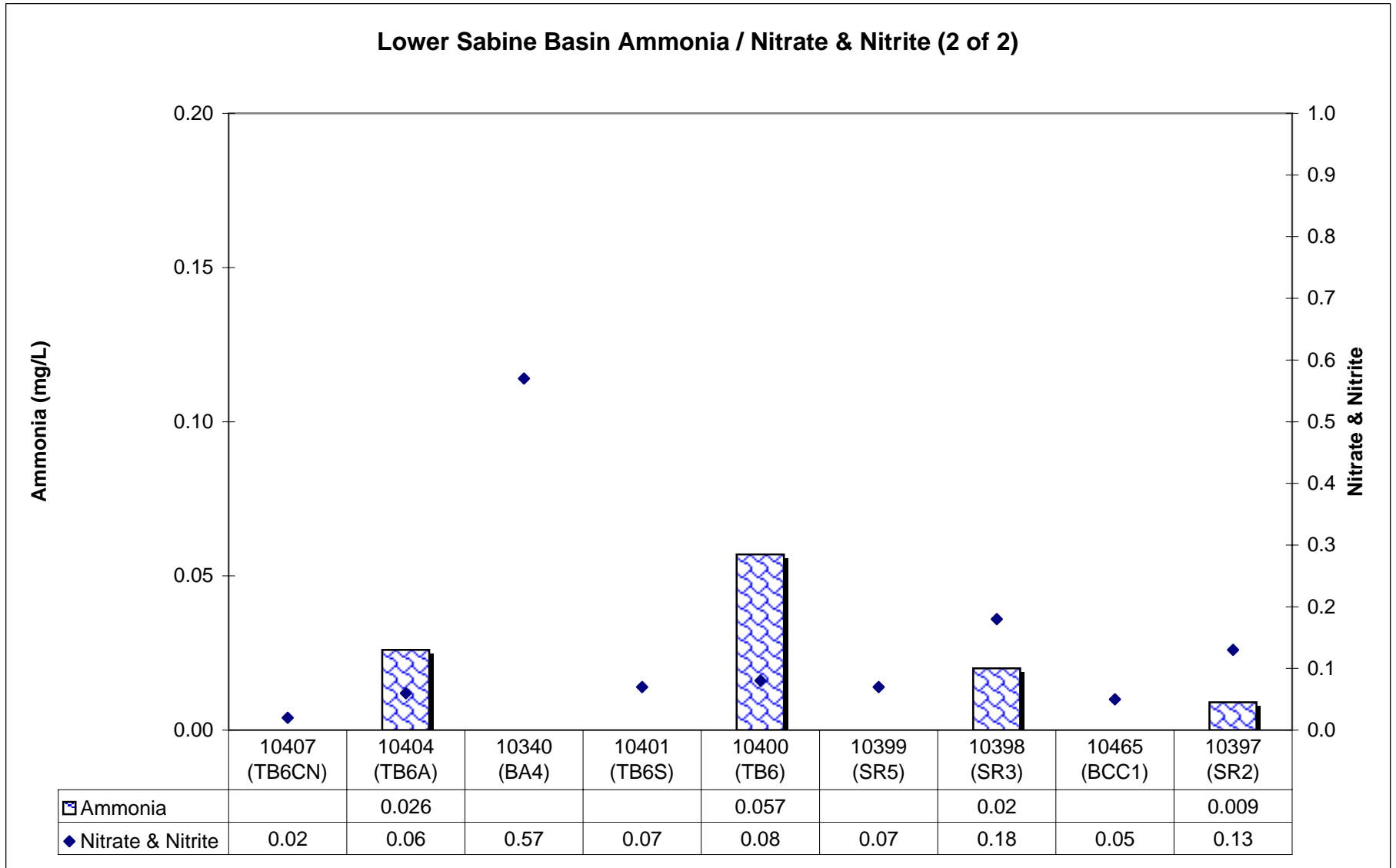
November 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

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

# SABINE RIVER AUTHORITY OF TEXAS

## Lower Basin Profiles

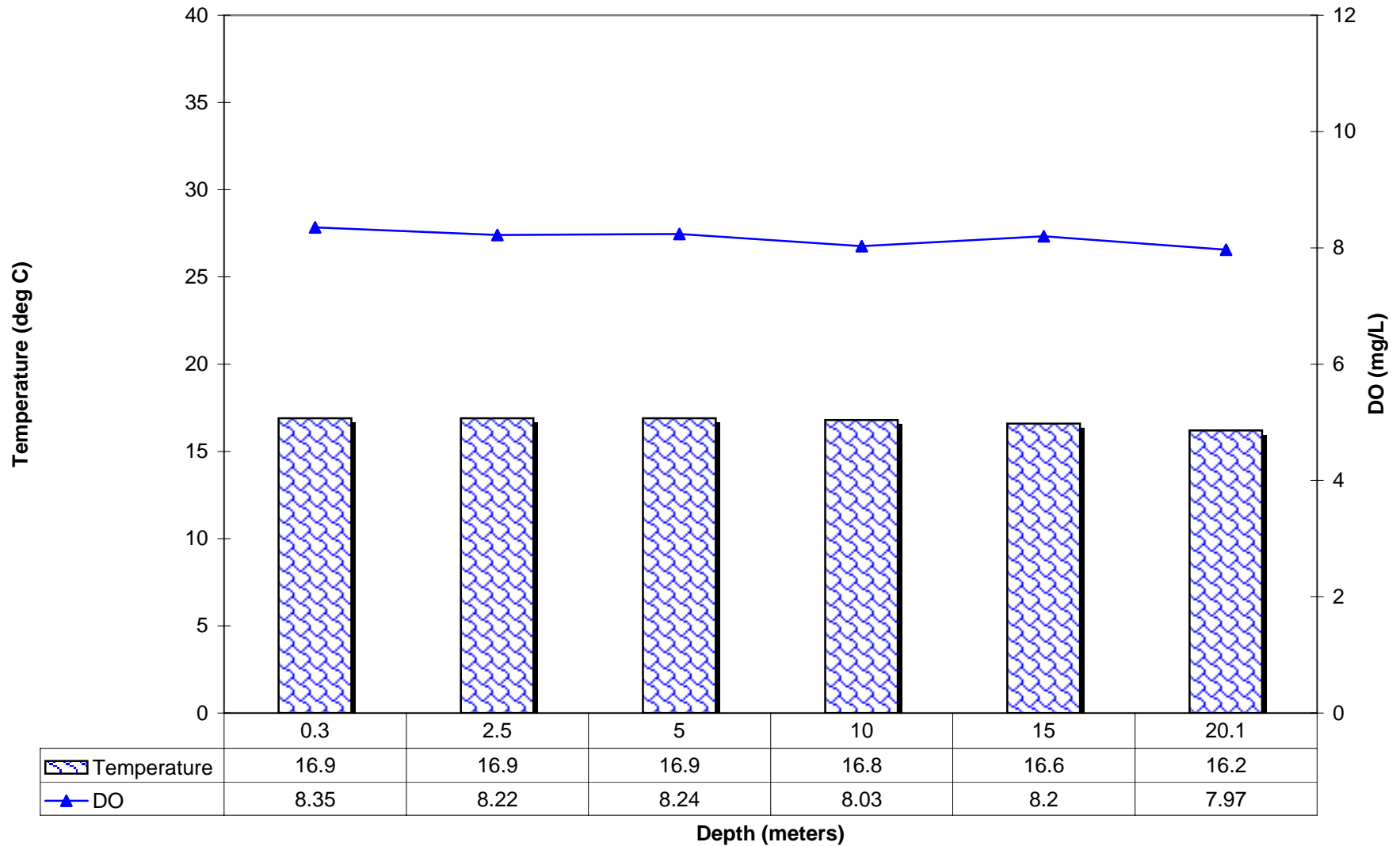
November 2000

| Date              | SW ID | Station       | Depth Meters | Temperature | pH             | DO            | %                   | Conductivity   |
|-------------------|-------|---------------|--------------|-------------|----------------|---------------|---------------------|----------------|
|                   |       |               |              | °C<br>00010 | Units<br>00400 | mg/L<br>00300 | Saturation<br>00301 | µS/cm<br>00094 |
| 11/15/00 1:25 PM  | 4.00  | 15657 (TB6M)  | 0.3          | 11.8        | 6.61           | 4.92          | 45.2                | 244            |
|                   |       |               | 3.4          | 10.8        | 6.92           | 5.22          | 46.9                | 256            |
| 11/15/00 10:25 AM | 4.00  | 15655 (TB6J)  | 0.3          | 14.7        | 7.4            | 8.75          | 86.3                | 199            |
|                   |       |               | 3.9          | 14.1        | 7.52           | 8.85          | 85.9                | 200            |
| 11/15/00 12:35 PM | 4.00  | 15659 (TB6K)  | 0.3          | 15.8        | 7.63           | 9.29          | 93.6                | 197            |
|                   |       |               | 3            | 15.5        | 7.45           | 9.05          | 91.3                | 195            |
|                   |       |               | 6            | 15          | 7.4            | 8.33          | 82.9                | 190            |
|                   |       |               | 9            | 15          | 7.45           | 8.5           | 83.9                | 189            |
| 11/15/00 11:35 AM | 4.00  | 10402 (TB6H)  | 0.3          | 16.9        | 7.45           | 8.35          | 86.1                | 197            |
|                   |       |               | 2.5          | 16.9        | 7.45           | 8.22          | 84.8                | 197            |
|                   |       |               | 5            | 16.9        | 7.45           | 8.24          | 85.2                | 197            |
|                   |       |               | 10           | 16.8        | 7.45           | 8.03          | 82.7                | 198            |
|                   |       |               | 15           | 16.6        | 7.45           | 8.2           | 84.1                | 197            |
| 11/15/00 11:15 AM | 4.00  | 10411 (TB6F)  | 0.3          | 15.7        | 7.61           | 9.01          | 90.9                | 182            |
|                   |       |               | 2            | 15.6        | 7.59           | 8.98          | 89.6                | 182            |
|                   |       |               | 4.5          | 15.4        | 7.6            | 8.92          | 88.8                | 181            |
|                   |       |               | 0.3          | 13.7        | 8.01           | 9.58          | 92.7                | 144            |
| 11/15/00 9:40 AM  | 4.00  | 10407 (TB6CN) | 3            | 13.3        | 7.55           | 9.5           | 90.8                | 136            |
|                   |       |               | 6            | 12.8        | 7.61           | 9.06          | 85.3                | 124            |
|                   |       |               | 0.3          | 17.7        | 7.27           | 7.63          | 80.1                | 170            |
| 11/15/00 11:15 AM | 4.00  | 10404 (TB6A)  | 1.5          | 17.6        | 7.28           | 7.66          | 80.7                | 171            |
|                   |       |               | 3            | 17.6        | 7.27           | 7.65          | 80.1                | 172            |
|                   |       |               | 6            | 17.6        | 7.27           | 7.49          | 77.4                | 172            |
|                   |       |               | 10           | 17.5        | 7.28           | 7.63          | 79.3                | 171            |
|                   |       |               | 15           | 17.5        | 7.3            | 7.71          | 80.8                | 172            |
|                   |       |               | 20           | 17.4        | 7.32           | 7.53          | 79                  | 171            |
|                   |       |               | 25.8         | 17.2        | 7.44           | 7.59          | 79.1                | 172            |
| 11/15/00 8:28 AM  | 2.00  | 10397 (SR2)   | 0.3          | 13.8        | 6.83           | 8.64          | 83.5                | 184            |
|                   |       |               | 2.6          | 13.8        | 6.89           | 8.58          | 83                  | 185            |

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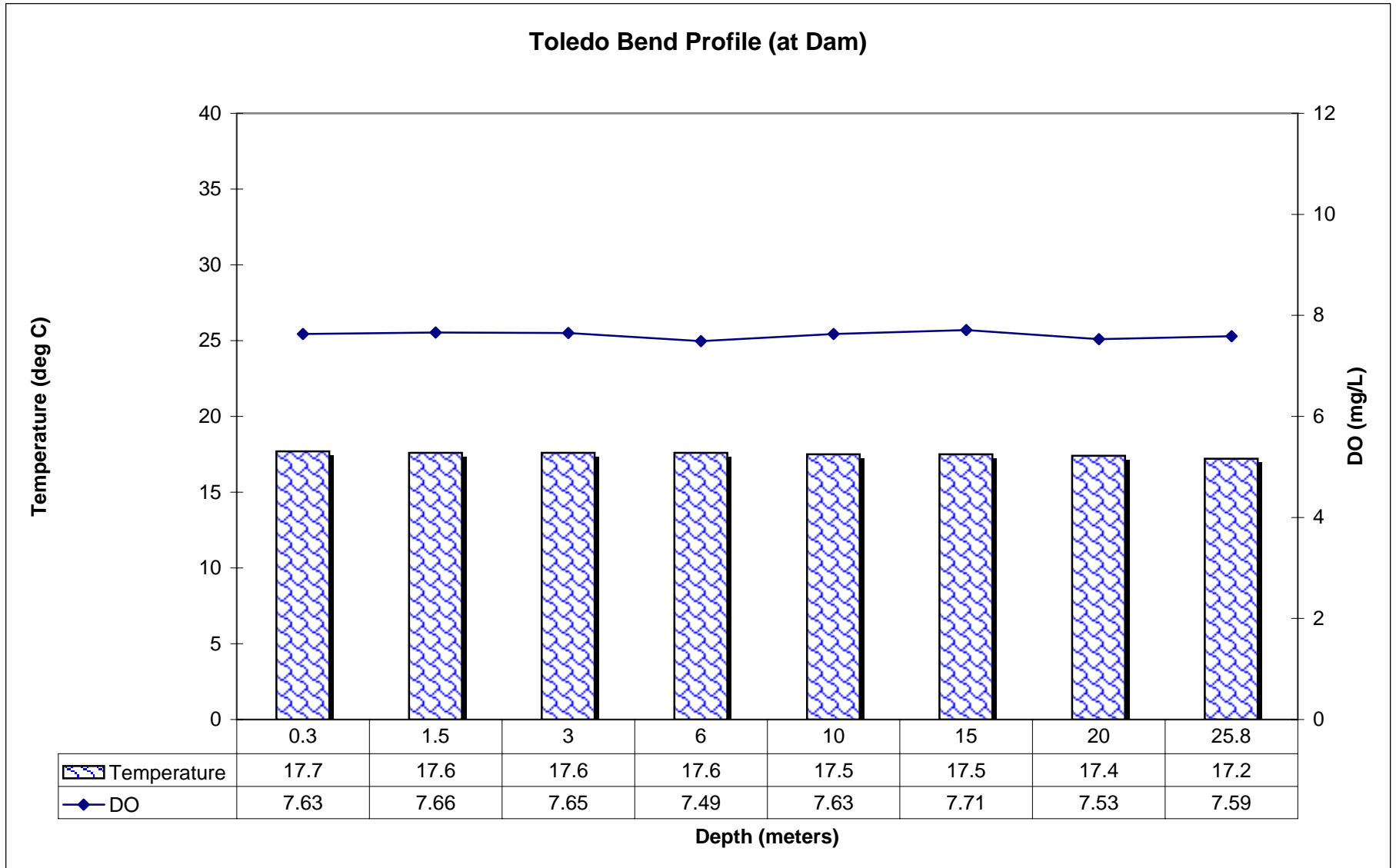
November 2000

## Toledo Bend Profile (at Pendleton Bridge)



# SABINE RIVER AUTHORITY OF TEXAS

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# SABINE RIVER AUTHORITY OF TEXAS

## Toledo Bend Weather and Reservoir Data

November 2000

| Date              | Lake Elev | LE - TOP | Max Temp | Min Temp | Rainfall | Evaporation | Daily Releases cfs | Daily Releases ac ft | Current Release |
|-------------------|-----------|----------|----------|----------|----------|-------------|--------------------|----------------------|-----------------|
| 11/01/2000        | 166.50    | (5.50)   | 84       | 64       | 0.00     | 0.17        | 974                | 1932                 | 460             |
| 11/02/2000        | 166.47    | (5.53)   | 85       | 65       | 0.00     | 0.19        | 160                | 317                  | 460             |
| 11/03/2000        | 166.81    | (5.19)   | 85       | 63       | 1.00     | 0.11        | 1356               | 2690                 | 460             |
| 11/04/2000        | 166.76    | (5.24)   | 73       | 65       | 0.66     | 0.16        | 160                | 317                  | 460             |
| 11/05/2000        | 166.94    | (5.06)   | 70       | 66       | 1.30     | 0.00        | 160                | 317                  | 460             |
| 11/06/2000        | 166.91    | (5.09)   | 70       | 60       | 1.40     | NR          | 1100               | 2182                 | 460             |
| 11/07/2000        | 167.00    | (5.00)   | 75       | 48       | 0.00     | 0.17        | 160                | 317                  | 460             |
| 11/08/2000        | 167.10    | (4.90)   | 70       | 48       | 1.40     | NR          | 1100               | 2182                 | 460             |
| 11/09/2000        | 167.16    | (4.84)   | 70       | 44       | 1.31     | NR          | 160                | 317                  | 460             |
| 11/10/2000        | 167.14    | (4.86)   | NR       | 33       | 0.00     | 0.14        | 1343               | 2664                 | 460             |
| 11/11/2000        | 167.14    | (4.86)   | 57       | 34       | 0.00     | 0.12        | 160                | 317                  | 460             |
| 11/12/2000        | 167.09    | (4.91)   | 54       | 43       | 0.00     | 0.05        | 160                | 317                  | 460             |
| 11/13/2000        | 167.34    | (4.66)   | 74       | 45       | 0.13     | 0.13        | 1095               | 2172                 | 460             |
| 11/14/2000        | 167.21    | (4.79)   | 53       | 34       | 0.00     | 0.09        | 160                | 317                  | 460             |
| 11/15/2000        | 167.16    | (4.84)   | 55       | 30       | 0.00     | 0.14        | 1122               | 2225                 | 460             |
| 11/16/2000        | 167.34    | (4.66)   | 56       | 30       | 0.65     | 0.24        | 160                | 317                  | 460             |
| 11/17/2000        | 167.37    | (4.63)   | 63       | 45       | 0.12     | NR          | 1252               | 2483                 | 460             |
| 11/18/2000        | 167.39    | (4.61)   | 49       | 37       | 0.22     | NR          | 160                | 317                  | 460             |
| 11/19/2000        | 167.59    | (4.41)   | 41       | 37       | 0.31     | NR          | 160                | 317                  | 460             |
| 11/20/2000        | 167.47    | (4.53)   | 55       | 30       | 0.00     | 0.05        | 1100               | 2182                 | 460             |
| 11/21/2000        | 167.42    | (4.58)   | 60       | 30       | 0.00     | 0.13        | 160                | 317                  | 460             |
| 11/22/2000        | 167.42    | (4.58)   | 55       | 29       | 0.00     | 0.12        | 1008               | 1999                 | 460             |
| 11/23/2000        | 167.45    | (4.55)   | 62       | 30       | 0.22     | 0.11        | 160                | 317                  | 460             |
| 11/24/2000        | 167.84    | (4.16)   | 55       | 46       | 3.60     | NR          | 1305               | 2588                 | 460             |
| 11/25/2000        | 168.19    | (3.81)   | 65       | 45       | 0.29     | 0.10        | 160                | 317                  | 460             |
| 11/26/2000        | 168.34    | (3.66)   | 62       | 38       | 0.00     | 0.16        | 160                | 317                  | 460             |
| 11/27/2000        | 168.54    | (3.46)   | 62       | 32       | 0.00     | 0.11        | 3859               | 7654                 | 460             |
| 11/28/2000        | 168.57    | (3.43)   | 69       | 32       | 0.00     | 0.13        | 7843               | 15556                | 14850           |
| 11/29/2000        | 168.70    | (3.30)   | 72       | 47       | 0.13     | 0.07        | 7372               | 14622                | 14989           |
| 11/30/2000        | 168.73    | (3.27)   | 61       | 35       | 0.05     | 0.13        | 7311               | 14501                | 15070           |
| <b>Avg or Tot</b> | 167.44    | (4.56)   | 64       | 43       | 12.79    | 2.82        | 1385               | 82387                |                 |

|       |                 |          |            |            |            |            |         |             |                   |
|-------|-----------------|----------|------------|------------|------------|------------|---------|-------------|-------------------|
| 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. |

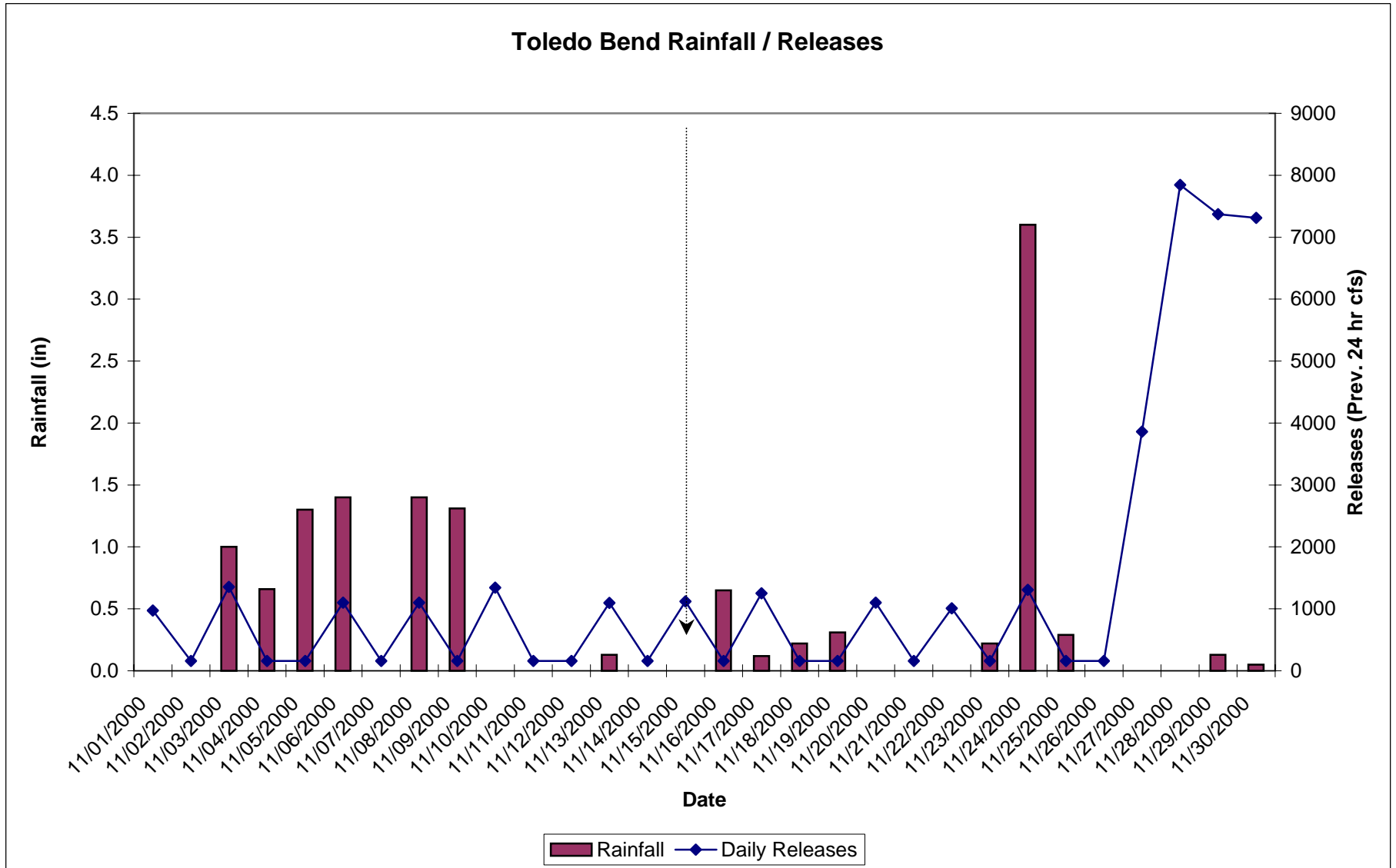
NR: No Reading

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

Toledo Bend Sampled on 11/15/2000

# SABINE RIVER AUTHORITY OF TEXAS

November 2000



# SABINE RIVER AUTHORITY OF TEXAS

## Burkeville Weather and River Data

November 2000

| Date              | Rainfall | Gauge Height | GH - FS | Flow |
|-------------------|----------|--------------|---------|------|
| 11/01/2000        | *        | 12.78        | (28.22) | 250  |
| 11/02/2000        | *        | 14.09        | (26.91) | 719  |
| 11/03/2000        | *        | 12.36        | (28.64) | 149  |
| 11/04/2000        | *        | 14.65        | (26.35) | 988  |
| 11/05/2000        | *        | 12.71        | (28.29) | 231  |
| 11/06/2000        | *        | OUT          | OUT     | OUT  |
| 11/07/2000        | *        | 14.23        | (26.77) | 783  |
| 11/08/2000        | *        | 13.21        | (27.79) | 379  |
| 11/09/2000        | *        | 15.90        | (25.10) | 1733 |
| 11/10/2000        | *        | 14.27        | (26.73) | 801  |
| 11/11/2000        | *        | 14.98        | (26.02) | 1166 |
| 11/12/2000        | *        | 12.75        | (28.25) | 242  |
| 11/13/2000        | *        | 12.57        | (28.43) | 197  |
| 11/14/2000        | *        | 14.25        | (26.75) | 792  |
| 11/15/2000        | *        | 12.46        | (28.54) | 172  |
| 11/16/2000        | *        | OUT          | OUT     | OUT  |
| 11/17/2000        | *        | 12.68        | (28.32) | 224  |
| 11/18/2000        | *        | OUT          | OUT     | OUT  |
| 11/19/2000        | *        | OUT          | OUT     | OUT  |
| 11/20/2000        | *        | 12.25        | (28.75) | 127  |
| 11/21/2000        | *        | 14.76        | (26.24) | 1046 |
| 11/22/2000        | *        | 12.96        | (28.04) | 301  |
| 11/23/2000        | *        | 14.36        | (26.64) | 842  |
| 11/24/2000        | *        | OUT          | OUT     | OUT  |
| 11/25/2000        | *        | 20.16        | (20.84) | 5408 |
| 11/26/2000        | *        | 18.24        | (22.76) | 3560 |
| 11/27/2000        | *        | 16.38        | (24.62) | 2071 |
| 11/28/2000        | *        | 18.72        | (22.28) | 3985 |
| 11/29/2000        | *        | 19.87        | (21.13) | 5107 |
| 11/30/2000        | *        | 19.77        | (21.23) | 5005 |
| <b>Avg or Tot</b> |          | 14.85        | (26.15) | 1451 |

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

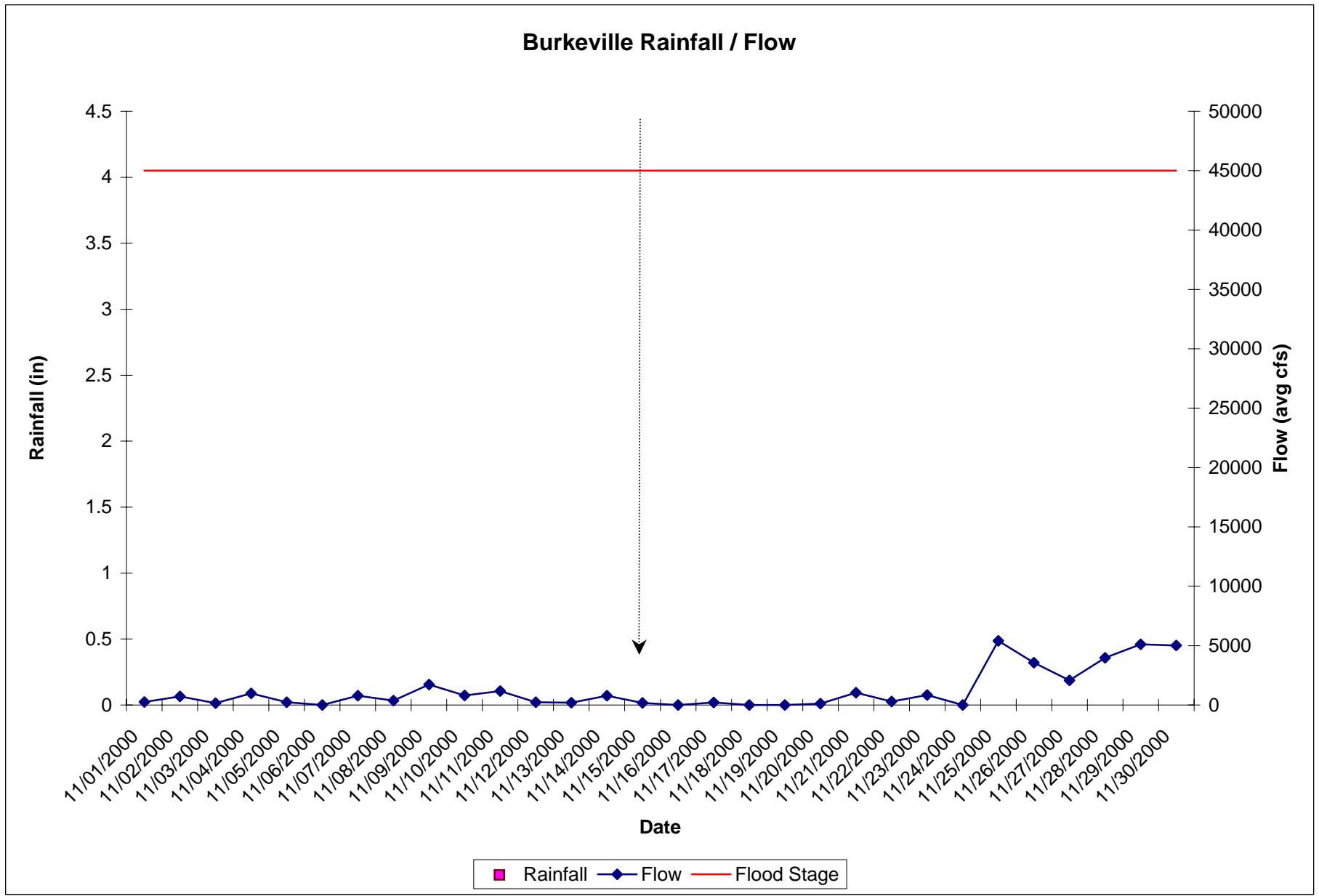
OUT: Gage Out

Lower Sabine Basin Sampled on 11/15/2000

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

# SABINE RIVER AUTHORITY OF TEXAS

November 2000



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

Rainfall readings not presented

# SABINE RIVER AUTHORITY OF TEXAS

## Bon Wier Weather and River Data

November 2000

| <b>Date</b>       | <i>Gauge Height</i> | <i>GH - FS</i> | <i>Flow Avg</i> | <i>308 Rainfall</i> |
|-------------------|---------------------|----------------|-----------------|---------------------|
| 11/01/2000        | 12.41               | (17.59)        | 497             | 0.00                |
| 11/02/2000        | 13.20               | (16.80)        | 833             | 0.00                |
| 11/03/2000        | 13.95               | (16.05)        | 1223            | 0.16                |
| 11/04/2000        | 12.91               | (17.09)        | 700             | 0.00                |
| 11/05/2000        | 14.49               | (15.51)        | 1544            | 1.29                |
| 11/06/2000        | 13.65               | (16.35)        | 1058            | 1.05                |
| 11/07/2000        | 13.69               | (16.31)        | 1079            | 0.00                |
| 11/08/2000        | 14.74               | (15.26)        | 1704            | 1.39                |
| 11/09/2000        | 16.22               | (13.78)        | 2796            | 0.21                |
| 11/10/2000        | 16.90               | (13.10)        | 3379            | 0.00                |
| 11/11/2000        | 15.17               | (14.83)        | 1997            | 0.00                |
| 11/12/2000        | 15.16               | (14.84)        | 1990            | 0.00                |
| 11/13/2000        | 13.93               | (16.07)        | 1212            | 0.14                |
| 11/14/2000        | 13.55               | (16.45)        | 1006            | 0.00                |
| 11/15/2000        | 14.53               | (15.47)        | 1569            | 0.00                |
| 11/16/2000        | 13.42               | (16.58)        | 940             | 0.02                |
| 11/17/2000        | 14.66               | (15.34)        | 1652            | 0.90                |
| 11/18/2000        | 13.96               | (16.04)        | 1228            | 0.49                |
| 11/19/2000        | 15.58               | (14.42)        | 2295            | 1.78                |
| 11/20/2000        | 16.24               | (13.76)        | 2813            | 0.01                |
| 11/21/2000        | 15.85               | (14.15)        | 2501            | 0.00                |
| 11/22/2000        | 15.82               | (14.18)        | 2477            | 0.00                |
| 11/23/2000        | 14.51               | (15.49)        | 1556            | 0.05                |
| 11/24/2000        | OUT                 | OUT            | OUT             | OUT                 |
| 11/25/2000        | OUT                 | OUT            | OUT             | OUT                 |
| 11/26/2000        | OUT                 | OUT            | OUT             | OUT                 |
| 11/27/2000        | OUT                 | OUT            | OUT             | OUT                 |
| 11/28/2000        | OUT                 | OUT            | OUT             | OUT                 |
| 11/29/2000        | OUT                 | OUT            | OUT             | OUT                 |
| 11/30/2000        | OUT                 | OUT            | OUT             | OUT                 |
| <b>Avg or Tot</b> | 14.55               | (15.45)        | 1654            | 7.49                |

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

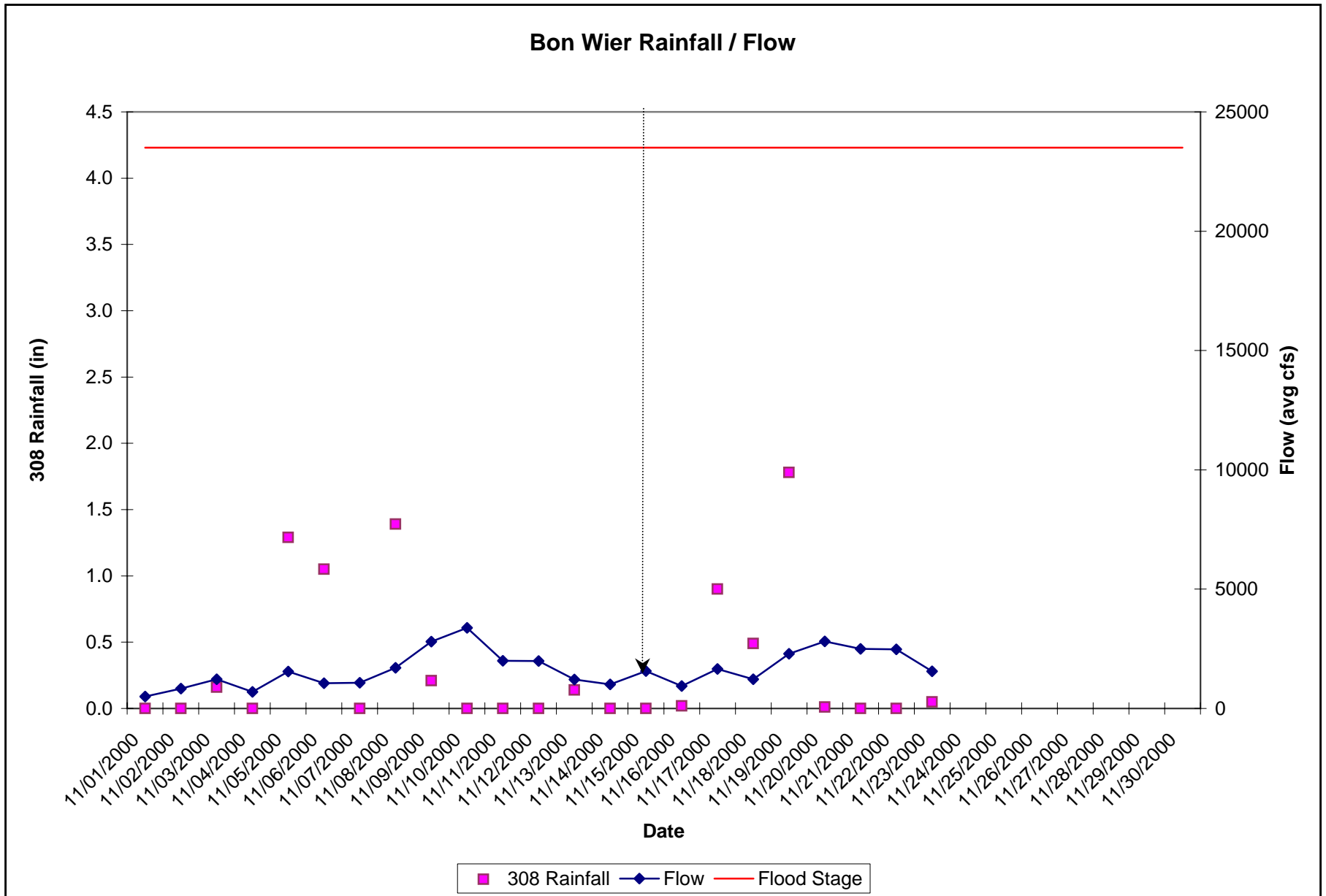
FS: Flood Stage = 30 feet

OUT: Gauge Out

Lower Sabine Basin Sampled on 11/15/2000

# SABINE RIVER AUTHORITY OF TEXAS

November 2000



Lower Sabine Basin sampled on 11/15/2000

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

# SABINE RIVER AUTHORITY OF TEXAS

## Ruliff Weather and River Data

November 2000

| <b>Date</b>       | <i>Gauge Height</i> | <i>GH - FS</i> | <i>Flow cfs</i> | <i>Flow acft</i> | <i>Flow avg</i> | <i>309 Rainfall</i> |
|-------------------|---------------------|----------------|-----------------|------------------|-----------------|---------------------|
| 11/01/2000        | 13.54               | (10.46)        | 952             | 1888             | 952             | 0.00                |
| 11/02/2000        | 13.42               | (10.58)        | 917             | 1819             | 935             | 0.00                |
| 11/03/2000        | 13.78               | (10.22)        | 1023            | 2029             | 964             | 0.07                |
| 11/04/2000        | 14.38               | (9.62)         | 1217            | 2414             | 1027            | 0.00                |
| 11/05/2000        | 14.60               | (9.40)         | 1292            | 2563             | 1080            | 0.54                |
| 11/06/2000        | 15.20               | (8.80)         | 1504            | 2983             | 1151            | 0.53                |
| 11/07/2000        | 15.53               | (8.47)         | 1628            | 3229             | 1219            | 0.41                |
| 11/08/2000        | 15.25               | (8.75)         | 1523            | 3021             | 1257            | 0.02                |
| 11/09/2000        | 16.70               | (7.30)         | 2162            | 4288             | 1358            | 0.01                |
| 11/10/2000        | 17.82               | (6.18)         | 2807            | 5568             | 1503            | 0.00                |
| 11/11/2000        | 19.62               | (4.38)         | 4203            | 8337             | 1748            | 0.01                |
| 11/12/2000        | 19.29               | (4.71)         | 3875            | 7686             | 1925            | 0.00                |
| 11/13/2000        | 18.44               | (5.56)         | 3212            | 6371             | 2024            | 0.00                |
| 11/14/2000        | 17.10               | (6.90)         | 2377            | 4715             | 2049            | 0.00                |
| <b>11/15/2000</b> | <b>15.92</b>        | <b>(8.08)</b>  | <b>1779</b>     | <b>3529</b>      | <b>2031</b>     | <b>0.01</b>         |
| 11/16/2000        | 15.83               | (8.17)         | 1743            | 3457             | 2013            | 0.00                |
| 11/17/2000        | 15.85               | (8.15)         | 1751            | 3473             | 1998            | 0.00                |
| 11/18/2000        | 16.09               | (7.91)         | 1854            | 3677             | 1990            | 0.00                |
| 11/19/2000        | 17.44               | (6.56)         | 2577            | 5111             | 2021            | 0.01                |
| 11/20/2000        | 19.01               | (4.99)         | 3609            | 7158             | 2100            | 0.00                |
| 11/21/2000        | 20.00               | (4.00)         | 4600            | 9124             | 2219            | 0.00                |
| 11/22/2000        | 20.16               | (3.84)         | 4817            | 9554             | 2337            | 0.01                |
| 11/23/2000        | 19.62               | (4.38)         | 4203            | 8337             | 2418            | 0.00                |
| 11/24/2000        | 18.60               | (5.40)         | 3321            | 6587             | 2456            | 0.01                |
| 11/25/2000        | 18.90               | (5.10)         | 3529            | 7000             | 2499            | 0.01                |
| 11/26/2000        | 21.07               | (2.93)         | 6043            | 11986            | 2635            | 0.00                |
| 11/27/2000        | 22.31               | (1.69)         | 8358            | 16578            | 2847            | 0.01                |
| 11/28/2000        | 22.91               | (1.09)         | 10226           | 20283            | 3111            | 0.00                |
| 11/29/2000        | 23.05               | (0.95)         | 10810           | 21441            | 3376            | 0.01                |
| 11/30/2000        | 23.10               | (0.90)         | 11070           | 21957            | 3633            | 0.01                |
| <b>Avg or Tot</b> | <b>17.82</b>        | <b>(6.18)</b>  | <b>3633</b>     | <b>216163</b>    |                 | <b>1.67</b>         |

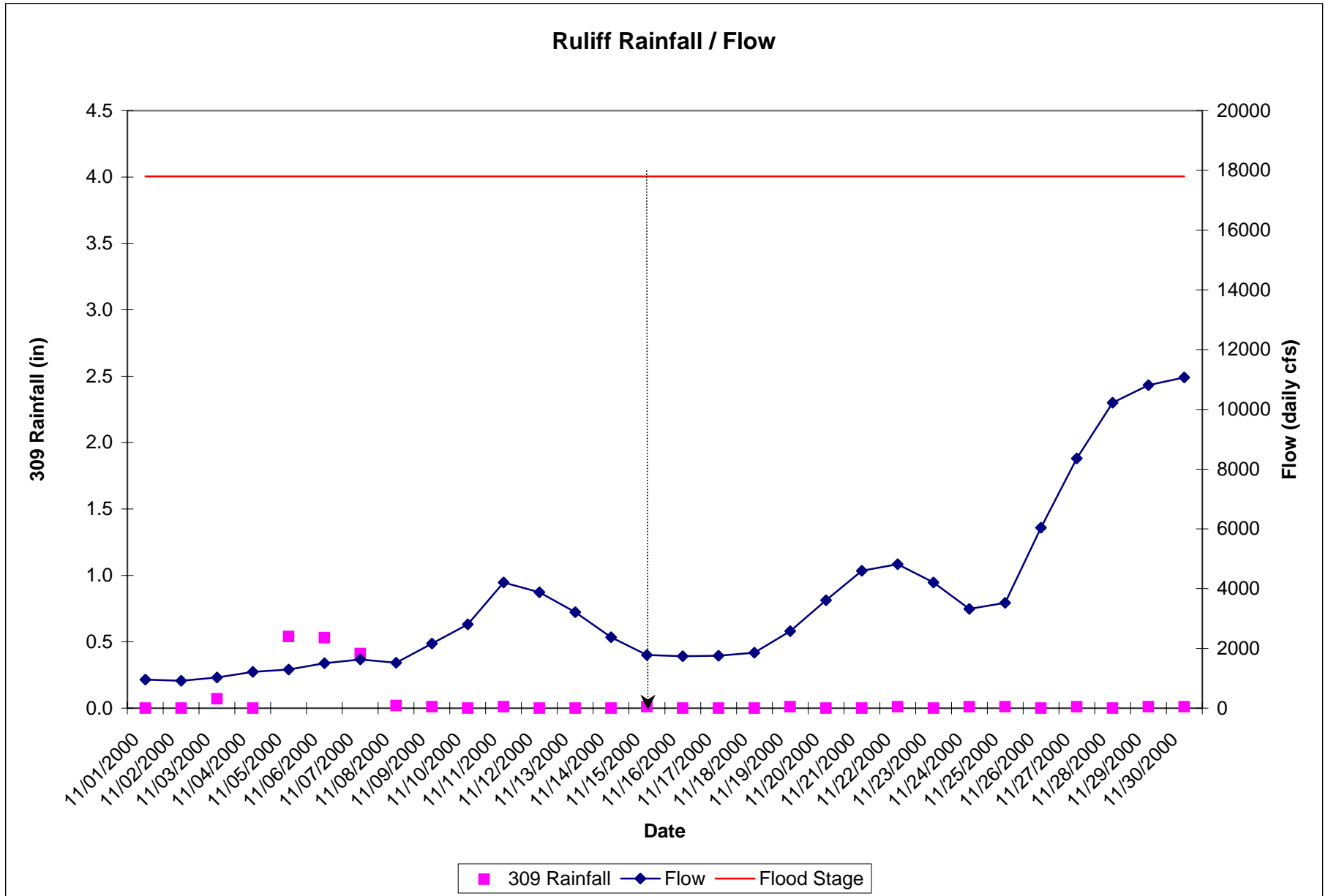
|       |             |             |            |              |               |
|-------|-------------|-------------|------------|--------------|---------------|
| Units | Avg<br>Feet | Avg<br>Feet | Avg<br>cfs | Tot<br>ac ft | Tot<br>Inches |
|-------|-------------|-------------|------------|--------------|---------------|

FS: Flood Stage 24 feet with 10 foot datum

Lower Sabine Basin Sampled on 11/15/2000

# SABINE RIVER AUTHORITY OF TEXAS

November 2000



Lower Sabine Basin sampled on 11/15/2000

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

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# *Current WQMP Stations*

## *Tidal Sabine Basin*

| <i><b>SW</b></i> | <i><b>Segment</b></i> | <i><b>Station</b></i> | <i><b>Location</b></i>                  |
|------------------|-----------------------|-----------------------|---|
| 1.05             | 0501                  | 15653 (ICW1)          | INTERCOASTAL WATERWAY AT PERRY RIDGE    |
| 1.03             | 0508                  | 15107 (AB7)           | ADAMS BAYOU AT FM 3247                  |
| 1.03             | 0508                  | 10441 (AB2)           | ADAMS BAYOU AT FM 1006                  |
| 1.02             | 0511                  | 13781 (CB4)           | COW BAYOU AT FM 1442(NORTH CROSSING)    |
| 1.02             | 0511                  | 10449 (CB1)           | COW BAYOU AT ROUND BUNCH RD             |
| 1.01             | 0501                  | 15654 (BB1)           | BLACK BAYOU IN CAMERON PARISH           |
| 1.00             | 0501                  | 10395 (SR1)           | SABINE RIVER 12.00 KM UPSTREAM OF IH 10 |
| 1.00             | 0501                  | 10394 (SRT2)          | SABINE RIVER AT IH 10                   |
| 1.00             | 0501                  | 10391 (SRT1)          | SABINE RIVER AT CHANNEL CAN 3           |

# SABINE RIVER AUTHORITY OF TEXAS

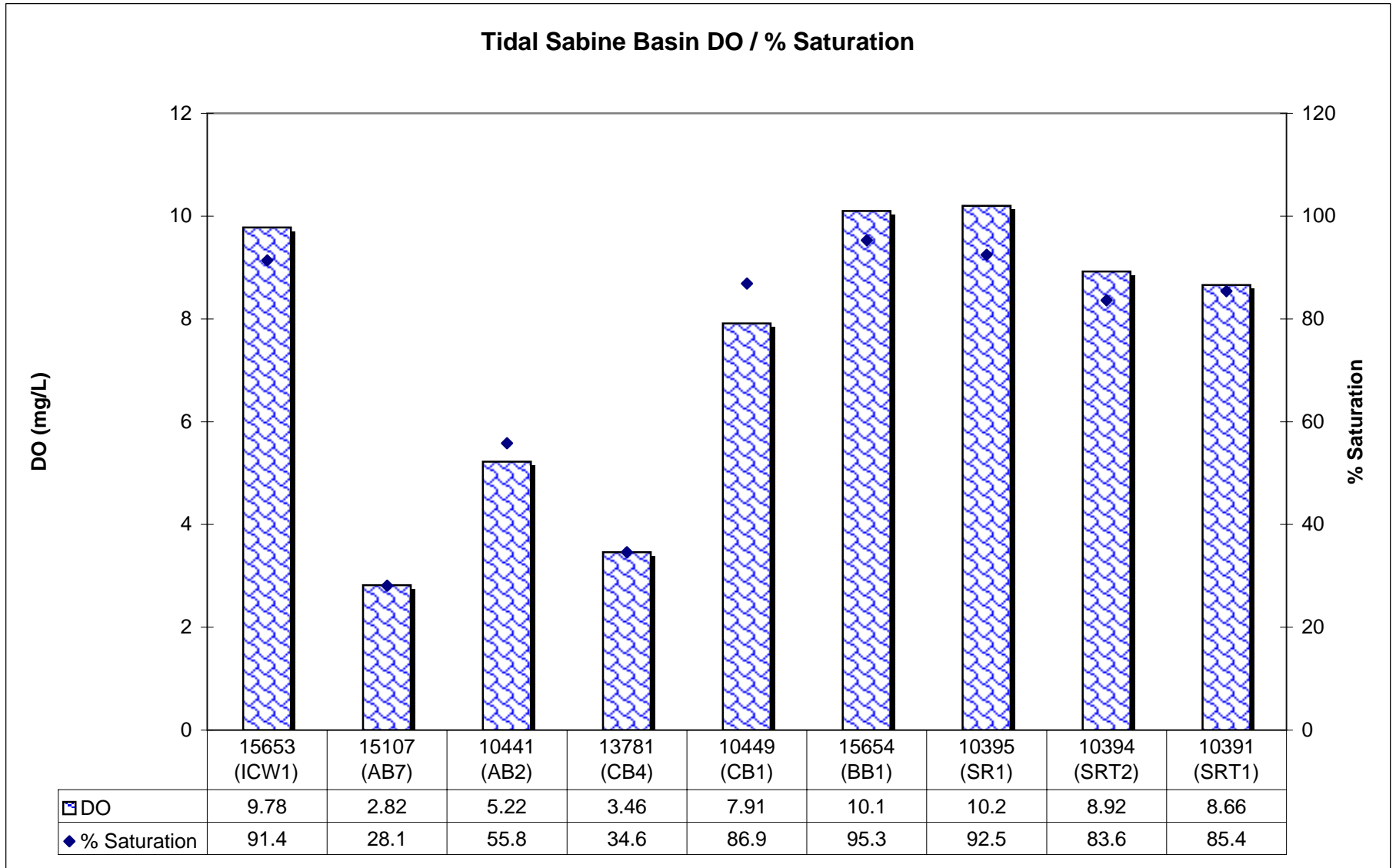
Tidal Report  
November 2000

| Date              | SW ID | Station      | Temperature | pH             | DO            | %                   | Conductivity   | Salinity     | Secchi          | Turbidity    | Fecal             | Fecal          | Chlorophyll a | Ammonia       | Nitrate &        | Ortho-             | TOC           | Total               | Total             | Chloride      | Sulfate       |
|-------------------|-------|--------------|-------------|----------------|---------------|---------------------|----------------|--------------|-----------------|--------------|-------------------|----------------|---------------|---------------|------------------|--------------------|---------------|---------------------|-------------------|---------------|---------------|
|                   |       |              | °C<br>00010 | Units<br>00400 | mg/L<br>00300 | Saturation<br>00301 | µS/cm<br>00094 | ppt<br>00480 | Meters<br>00078 | NTU<br>82079 | Coliform<br>31616 | Strep<br>31673 | µg/L<br>32211 | mg/L<br>00610 | Nitrite<br>00630 | Phosphate<br>00671 | mg/L<br>00680 | Alkalinity<br>00410 | Hardness<br>00900 | mg/L<br>00940 | mg/L<br>00945 |
| 11/20/00 10:50 AM | 1.05  | 15653 (ICW1) | 10.7        | 6.86           | 9.78          | 91.4                | 9824           | 6            | 0.41            | 16.3         | > 1200            | *              | *             | < 0.001       | 3.73             | < 0.02             | 10            | 39                  | 1030              | 2980          | 355           |
| 11/14/00 10:07 AM | 1.03  | 15107 (AB7)  | 14.7        | 6.62           | 2.82          | 28.1                | 2920           | 2            | 0.32            | 38.8         | 420               | > 240          | *             | < 0.001       | *                | *                  | 12            | 32                  | 232               | *             | *             |
| 11/14/00 11:12 AM | 1.03  | 10441 (AB2)  | 16.1        | 6.65           | 5.22          | 55.8                | 13990          | 8            | 0.76            | 3.47         | 560               | 780            | *             | < 0.001       | *                | *                  | 9             | 64                  | 1500              | *             | *             |
| 11/14/00 10:26 AM | 1.02  | 13781 (CB4)  | 15.5        | 6.76           | 3.46          | 34.6                | 963            | < 1          | 0.32            | 36.1         | 60                | 240            | *             | < 0.001       | *                | *                  | 7             | 43                  | 112               | *             | *             |
| 11/14/00 10:56 AM | 1.02  | 10449 (CB1)  | 16.5        | 6.9            | 7.91          | 86.9                | 18700          | 11           | 0.77            | 5.49         | 236               | 500            | *             | *             | *                | *                  | 10            | 64                  | 2080              | *             | *             |
| 11/20/00 11:17 AM | 1.01  | 15654 (BB1)  | 10          | 7.03           | 10.1          | 95.3                | 15520          | 9            | 0.45            | 8.47         | 100               | *              | *             | < 0.001       | 0.29             | < 0.02             | 10            | 51                  | 1680              | 3680          | 460           |
| 11/20/00 9:28 AM  | 1.00  | 10395 (SR1)  | 11.1        | 7.22           | 10.2          | 92.5                | 241            |              | 0.27            | 34.3         | 460               | *              | *             | 0.142         | 0.18             | 0.03               | 13            | 27                  | 32                | 17.7          | 42.1          |
| 11/20/00 8:58 AM  | 1.00  | 10394 (SRT2) | 12.2        | 6.94           | 8.92          | 83.6                | 2000           | 1            | 0.27            | 28.4         | 760               | *              | *             | 0.253         | 0.16             | < 0.02             | 6             | 28                  | 176               | 491           | 101           |
| 11/20/00 11:30 AM | 1.00  | 10391 (SRT1) | 12.9        | 7.2            | 8.66          | 85.4                | 11210          | 6            | 0.46            | 14.1         | 860               | *              | *             | < 0.001       | 0.06             | < 0.02             | 10            | 53                  | 1130              | 5060          | 630           |

\*: Not sampled on this run

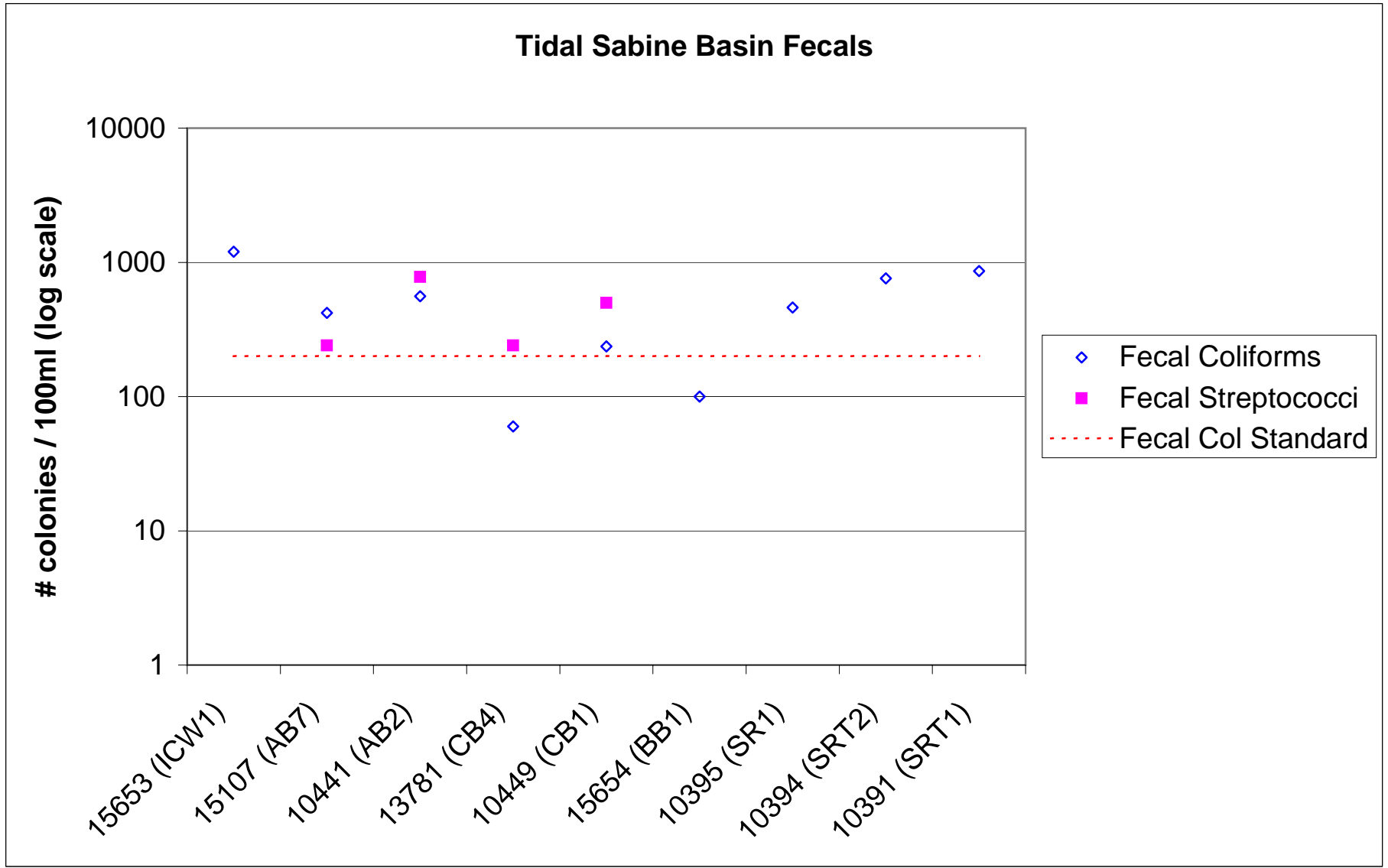
# SABINE RIVER AUTHORITY OF TEXAS

November 2000



# SABINE RIVER AUTHORITY OF TEXAS

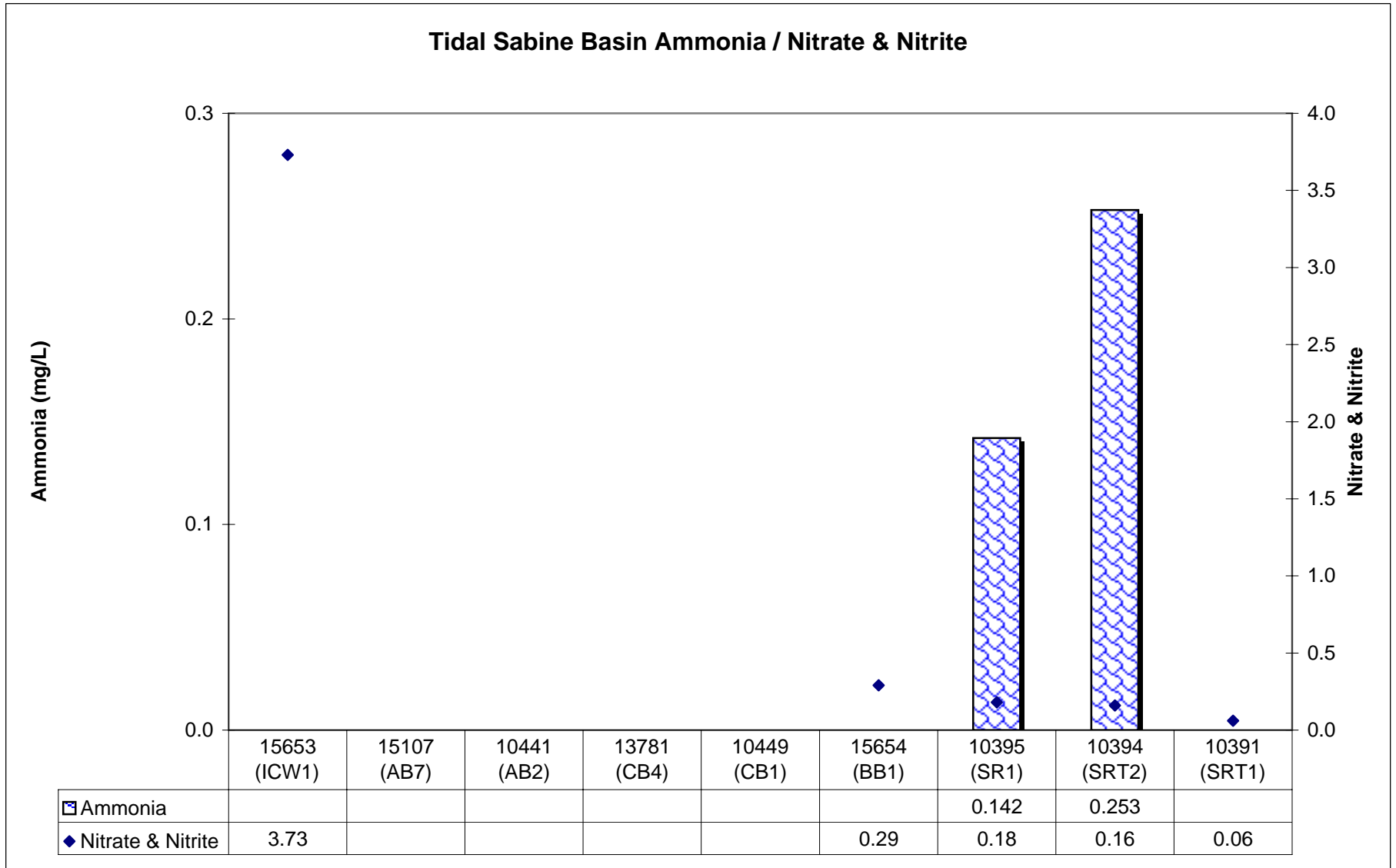
November 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

November 2000



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

# SABINE RIVER AUTHORITY OF TEXAS

## Tidal Profiles

November 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 |
|-------------------|-------|--------------|--------------|-------------------------|-------------------|------------------|-----------------------|-----------------------------|-----------------------|
| 11/20/00 10:50 AM | 1.05  | 15653 (ICW1) | 0.3          | 10.7                    | 6.86              | 9.78             | 91.4                  | 9824                        | 6                     |
|                   |       |              | 2            | 10.7                    | 6.86              | 9.89             | 92.6                  | 9829                        | 6                     |
|                   |       |              | 4            | 10.7                    | 6.85              | 9.83             | 91.8                  | 9857                        | 6                     |
|                   |       |              | 6.1          | 10.7                    | 6.83              | 9.71             | 90.9                  | 9912                        | 6                     |
| 11/14/00 10:07 AM | 1.03  | 15107 (AB7)  | 0.3          | 14.7                    | 6.62              | 2.82             | 28.1                  | 2920                        | 2                     |
|                   |       |              | 2.3          | 20.4                    | 6.16              | 0.83             | 5.7                   | 12220                       | 7                     |
| 11/14/00 11:12 AM | 1.03  | 10441 (AB2)  | 0.3          | 16.1                    | 6.65              | 5.22             | 55.8                  | 13990                       | 8                     |
|                   |       |              | 3.2          | 16.4                    | 6.67              | 5.13             | 55.2                  | 14780                       | 9                     |
| 11/14/00 10:26 AM | 1.02  | 13781 (CB4)  | 0.3          | 15.5                    | 6.76              | 3.46             | 34.6                  | 963                         | < 1                   |
|                   |       |              | 2.2          | 15.4                    | 6.9               | 3.33             | 33.6                  | 1005                        | < 1                   |
| 11/14/00 10:56 AM | 1.02  | 10449 (CB1)  | 0.3          | 16.5                    | 6.9               | 7.91             | 86.9                  | 18700                       | 11                    |
|                   |       |              | 3            | 16.3                    | 6.84              | 7.34             | 80.7                  | 18700                       | 11                    |
|                   |       |              | 6            | 16.2                    | 6.82              | 7.35             | 80.1                  | 18710                       | 11                    |
| 11/20/00 11:17 AM | 1.01  | 15654 (BB1)  | 0.3          | 10                      | 7.03              | 10.1             | 95.3                  | 15520                       | 9                     |
|                   |       |              | 2            | 9.9                     | 7.02              | 10.3             | 96.3                  | 15650                       | 9                     |
|                   |       |              | 4.4          | 9.9                     | 7.02              | 10.4             | 97.1                  | 15660                       | 9                     |
| 11/20/00 8:58 AM  | 1.00  | 10394 (SRT2) | 0.3          | 12.2                    | 6.94              | 8.92             | 83.6                  | 2000                        | 1                     |
|                   |       |              | 2            | 12.2                    | 7.04              | 8.9              | 83.5                  | 2124                        | 1                     |
|                   |       |              | 4            | 12.4                    | 7.02              | 8.58             | 81.7                  | 2661                        | 1                     |
|                   |       |              | 5            | 13.3                    | 6.82              | 7.26             | 72.3                  | 8508                        | 5                     |
|                   |       |              | 6            | 17.1                    | 6.62              | 5.1              | 55.3                  | 17830                       | 11                    |
|                   |       |              | 7            | 17.8                    | 6.81              | 4.79             | 54.5                  | 21240                       | 13                    |
| 11/20/2000 11:30  | 1.00  | 10391 (SRT1) | 0.3          | 12.9                    | 7.2               | 8.66             | 85.4                  | 11210                       | 6                     |
|                   |       |              | 3            | 12.7                    | 7.3               | 8.59             | 84                    | 14230                       | 8                     |
|                   |       |              | 6            | 13.5                    | 7.45              | 8.24             | 87.1                  | 25180                       | 15                    |
|                   |       |              | 9.8          | 14.3                    | 7.51              | 7.94             | 87.8                  | 33380                       | 21                    |

# SABINE RIVER AUTHORITY OF TEXAS

## Orange Weather and River Data

November 2000

| Date              | 310 (Orange) Rainfall | Gauge Height | GH - FS | Max Temp | Min Temp | Cur Temp | 293 (GCD) Rainfall |
|-------------------|-----------------------|--------------|---------|----------|----------|----------|--------------------|
| 11/01/2000        | 0.00                  | 2.50         | (1.50)  | 82       | 65       | 70       | 0.00               |
| 11/02/2000        | 0.00                  | 2.67         | (1.33)  | 82       | 67       | 68       | 0.00               |
| 11/03/2000        | 0.02                  | 2.42         | (1.58)  | 81       | 66       | 68       | 0.28               |
| 11/04/2000        | 0.00                  | 2.39         | (1.61)  | 79       | 68       | 69       | 0.00               |
| 11/05/2000        | 0.28                  | 2.23         | (1.77)  | 80       | 69       | 69       | 0.30               |
| 11/06/2000        | 1.03                  | 2.79         | (1.21)  | 76       | 61       | 62       | 1.53               |
| 11/07/2000        | 0.00                  | 2.02         | (1.98)  | 77       | 52       | 52       | 0.00               |
| 11/08/2000        | 0.03                  | 2.77         | (1.23)  | 74       | 52       | 74       | 0.07               |
| 11/09/2000        | 0.74                  | 1.79         | (2.21)  | 78       | 43       | 43       | 0.65               |
| 11/10/2000        | 0.00                  | 1.67         | (2.33)  | 59       | 37       | 38       | 0.00               |
| 11/11/2000        | 0.00                  | 2.02         | (1.98)  | 62       | 38       | 44       | 0.00               |
| 11/12/2000        | 0.00                  | 2.39         | (1.61)  | 61       | 44       | 46       | 0.00               |
| 11/13/2000        | 0.65                  | 2.74         | (1.26)  | 68       | 47       | 53       | 0.65               |
| 11/14/2000        | 0.00                  | 1.41         | (2.59)  | 55       | 35       | 35       | 0.00               |
| 11/15/2000        | 0.00                  | 1.79         | (2.21)  | 59       | 33       | 33       | 0.00               |
| 11/16/2000        | 0.00                  | 2.50         | (1.50)  | 61       | 33       | 61       | 0.00               |
| 11/17/2000        | 0.85                  | 1.75         | (2.25)  | 66       | 51       | 51       | 0.80               |
| 11/18/2000        | 0.97                  | 1.82         | (2.18)  | 51       | 40       | 40       | 1.36               |
| 11/19/2000        | 1.81                  | 2.32         | (1.68)  | 43       | 39       | 40       | 2.18               |
| 11/20/2000        | 0.01                  | 2.18         | (1.82)  | 55       | 33       | 33       | 0.00               |
| 11/21/2000        | 0.01                  | 1.57         | (2.43)  | 63       | 32       | 32       | 0.00               |
| 11/22/2000        | 0.00                  | 1.71         | (2.29)  | 58       | 31       | 32       | 0.00               |
| 11/23/2000        | 0.02                  | 1.85         | (2.15)  | 61       | 32       | 52       | 0.05               |
| 11/24/2000        | 1.41                  | 2.64         | (1.36)  | 68       | 52       | 58       | 1.84               |
| 11/25/2000        | 0.01                  | 1.27         | (2.73)  | 66       | 53       | 53       | 0.01               |
| 11/26/2000        | 0.00                  | 1.69         | (2.31)  | 66       | 42       | 43       | 0.00               |
| 11/27/2000        | 0.00                  | 1.83         | (2.17)  | 66       | 37       | 37       | 0.00               |
| 11/28/2000        | 0.00                  | 1.99         | (2.01)  | 70       | 36       | 50       | 0.00               |
| 11/29/2000        | 0.00                  | 2.07         | (1.93)  | 71       | 50       | 54       | 0.00               |
| 11/30/2000        | 0.27                  | 1.69         | (2.31)  | 70       | 43       | 43       | 0.12               |
| <b>Avg or Tot</b> | 8.11                  | 2.08         | (1.92)  | 67       | 46       | 50       | 9.84               |

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

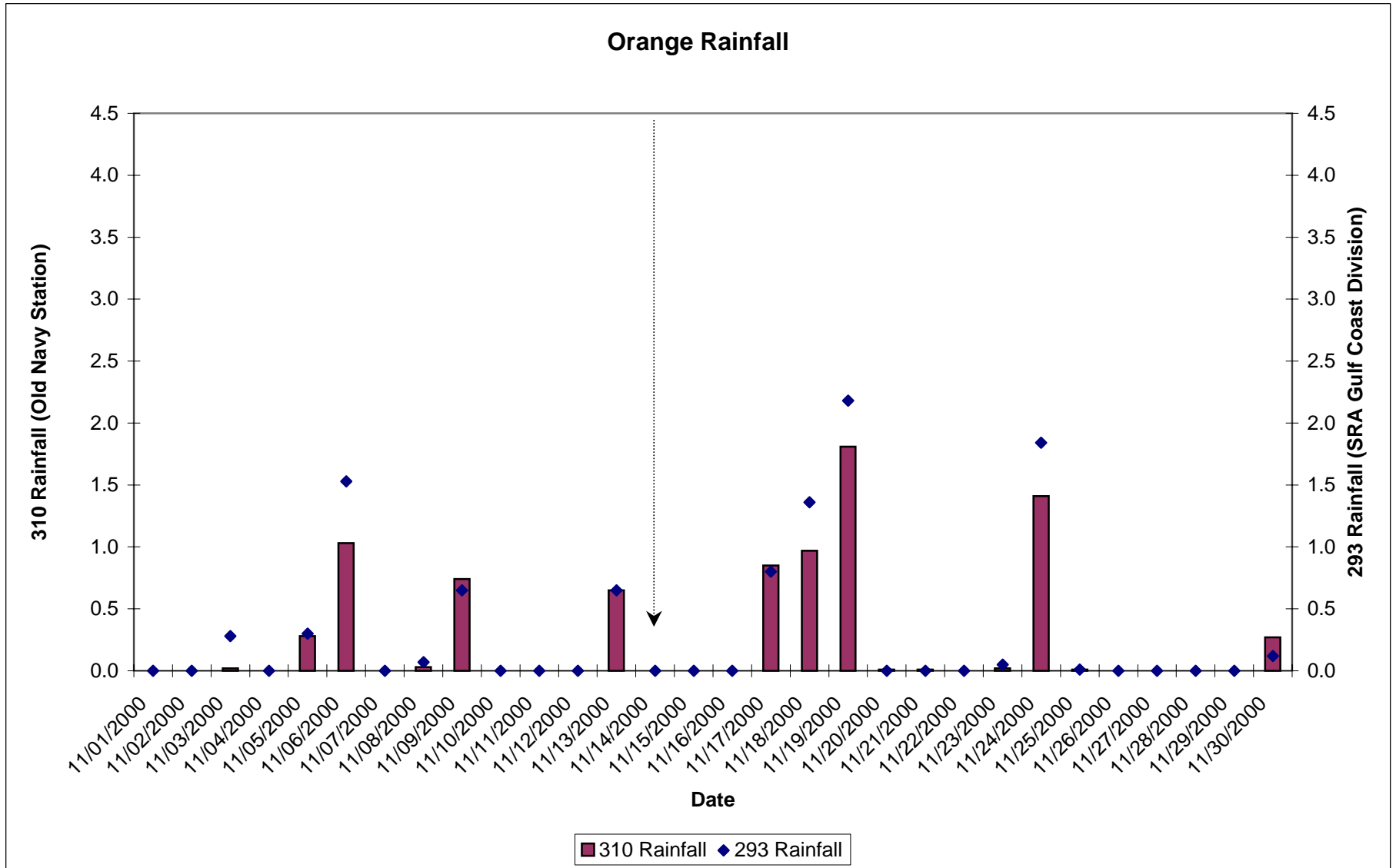
Appx. 8 am

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 11/14/2000

# SABINE RIVER AUTHORITY OF TEXAS

November 2000



Tidal Sabine Basin Sampled on 11/14/2000