

TABLE 7

TNRCC Segment 1803
 TNRCC Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|
| | Parameter Code | 3/24/87 1230 | 4/23/87 1245 | 5/27/87 1310 | 7/22/87 1520 | 8/18/87 1345 | 9/14/87 1330 | 10/20/87 1414 | 11/23/87 1400 | 12/14/87 1405 | 1/28/88 1140 | 2/11/88 1510 |
| Flow (cfs) | | 7.7 | 6 | 8.2 | 7.9 | 7.5 | 7.2 | 4.8 | 5.4 | 4.8 | 4.1 | 4 |
| Fecal Coliform(org/100mL) | 31616 | 32 | 48 | 880 | 368 | 60 | 270 | 10 | 100 | 18 | 26 | 38 |
| Suspended Solids(mg/L) | 530 | 114 | 31.9 | 227 | 9.1 | 78.4 | 202 | 65 | 84.6 | 50 | 30.6 | 40 |
| Turbidity(NTU) | 82079 | 93.1 | 45 | 278 | 137 | 57.2 | 185 | 52.5 | 70.3 | 37.6 | 20.9 | 26.9 |
| pH | 400 | 7.81 | 8.11 | 7.67 | 7.93 | 7.65 | 7.64 | 23.4 | 7.77 | 7.77 | 7.86 | 7.91 |
| Temperature(C) | 10 | 19.95 | 23.8 | 25.7 | 29.32 | 29.75 | 28.9 | 8.05 | 17.59 | 18.95 | 11.53 | 12.6 |
| Dissolved Oxygen(mg/L) | 300 | 7.59 | 7.14 | 5.3 | 6.28 | 6.1 | 6.22 | 7.39 | 8.44 | 9.03 | 11 | 10.14 |
| Conductivity(umhos/cm) | 94 | 666 | 638 | 523 | 680 | 625 | 626 | 751 | 787 | 731 | 740 | 758 |
| Total Phosphorus(mg/L) | 665 | 0.48 | 0.25 | 0.94 | 0.54 | 0.36 | 0.23 | 0.72 | 0.67 | 0.45 | 0.54 | 0.09 |
| Nitrate-N(mg/L) | 620 | 2.8 | 1.1 | 2.5 | 2.2 | 1.8 | 1.4 | 3.6 | 2.4 | 2.4 | 2.9 | 3.28 |
| Water Quality Index | | 81.38 | 85.28 | 0 | 83.07 | 79.16 | 38.73 | 80.14 | 76.57 | 87.15 | 81.49 | 85.39 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|-------------|--------------|
| | Parameter Code | 3/29/88 1425 | 4/26/88 1400 | 5/17/88 1340 | 6/30/88 1030 | 7/26/88 1100 | 8/30/88 1056 | 9/30/88 1205 | 10/26/88 952 | 11/21/88 1221 | 12/19/88 1205 | 1/11/89 930 | 2/13/89 1620 |
| Flow (cfs) | | 4.1 | 3.9 | 4 | 4.1 | 5 | 4.2 | 4.2 | 2.8 | 1.9 | 2 | 2.6 | 3.3 |
| Fecal Coliform(org/100mL) | 31616 | 72 | 222 | 60 | 316 | 80 | 395 | 335 | 9 | 50 | 40 | 440 | 320 |
| Suspended Solids(mg/L) | 530 | 89 | 61.4 | 81 | 72.9 | 101 | 78.6 | 61.2 | 33.9 | 27.4 | 24 | 66 | 81 |
| Turbidity(NTU) | 82079 | 73.9 | 44 | 61.3 | 58.8 | 104 | 38.2 | 70.3 | 50.1 | 36.1 | 22.4 | 43.3 | 75 |
| pH | 400 | 7.4 | 8.02 | 8.04 | 7.97 | 7.82 | 7.29 | 7.38 | 7.34 | 8.25 | 8.44 | 8.16 | 8.32 |
| Temperature(C) | 10 | 22.83 | 25.9 | 25.94 | 29.8 | 29.64 | 29.52 | 27.27 | 24.63 | 17.96 | 12.95 | 15.43 | 14.27 |
| Dissolved Oxygen(mg/L) | 300 | 6.76 | 6.81 | 7.03 | 5.79 | 6.69 | 6.44 | 6.79 | 7.02 | 6.95 | 9.78 | 8.8 | 9.39 |
| Conductivity(umhos/cm) | 94 | 778 | 812 | 823 | 661 | 653 | 700 | 706 | 8.42 | 815 | 811 | 822 | 722 |
| Total Phosphorus(mg/L) | 665 | 0.3 | 0.71 | 1 | 0.68 | 0.63 | 0.68 | 0.95 | 1.25 | 1.1 | 1.34 | 1.56 | 1.2 |
| Nitrate-N(mg/L) | 620 | 2.6 | 3.8 | 2.9 | 1.9 | 1.25 | 2.6 | 3.5 | 2.65 | 3.23 | 5.4 | 7.01 | 2.28 |
| Water Quality Index | | 82.08 | 54.55 | 71.68 | 26.66 | 73.64 | 1.57 | 21.21 | 73.34 | 72.17 | 65.54 | 0 | 18.26 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|---------------|--------------|---------------|--------------|--------------|
| | Parameter Code | 3/14/89 1013 | 4/11/89 1050 | 5/9/89 1115 | 6/12/89 1030 | 7/10/89 1003 | 8/14/89 1300 | 9/12/89 911 | 10/17/89 1110 | 11/30/89 830 | 12/28/89 1113 | 1/23/90 1030 | 2/27/90 1200 |
| Flow (cfs) | | 3.1 | 2.4 | 3.5 | 3.9 | 3.5 | 3.7 | 3.7 | 3.7 | 2.4 | 1.6 | 1.5 | 2.8 |
| Fecal Coliform(org/100mL) | 31616 | 230 | 200 | 1140 | 10000 | 1800 | | 733 | 1100 | 582 | 54 | 144 | 488 |
| Suspended Solids(mg/L) | 530 | 74.4 | 82.2 | 152 | 27.4 | 47.4 | 165 | 31.4 | 93 | 63.7 | 24.5 | 44.7 | 145 |
| Turbidity(NTU) | 82079 | 54.9 | 73.3 | 138 | 28.9 | 41 | 147 | 34 | 70 | 68 | 12 | 30 | 96 |
| pH | 400 | 8.09 | 8.09 | 7.42 | 7.34 | 8.14 | 7.95 | 8.15 | 8.13 | 8.38 | 9 | 7.6 | 8 |
| Temperature(C) | 10 | 19.28 | 19.5 | 27.3 | 29.53 | 31.08 | 28.22 | 29.1 | 24.73 | 15.75 | 7.1 | 15.97 | 18.8 |
| Dissolved Oxygen(mg/L) | 300 | 8.46 | 7.94 | 6.85 | 5.95 | 5.48 | 6.15 | 6.09 | 6.23 | 8.22 | 11.5 | | 8.26 |
| Conductivity(umhos/cm) | 94 | 742 | 759 | 626 | 728 | 726 | 1016 | 1064 | 655 | 754 | 805 | 819 | 788 |
| Total Phosphorus(mg/L) | 665 | 0.98 | 1.02 | 0.98 | 0.66 | 0.66 | 2.21 | 1.62 | 1.34 | 1.96 | 1.6 | 1.2 | 1.94 |
| Nitrate-N(mg/L) | 620 | 3.37 | 5.7 | 2.6 | 0.93 | 1.64 | 6.8 | 5.8 | 2.1 | 7.2 | 6.8 | 5.8 | 12.1 |
| Water Quality Index | | 50.53 | 49.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46.92 | 62.66 | 0 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|
| | Parameter Code | 3/20/90 1030 | 4/16/90 1110 | 5/29/90 1044 | 6/26/90 1110 | 7/23/90 1415 | 8/8/90 1100 | 9/10/90 935 | 10/8/90 1000 | 11/6/90 930 | 12/5/90 915 | 1/22/91 1018 | 2/21/91 955 |
| Flow (cfs) | | 4.1 | 3.7 | 4.4 | 3.8 | 8.2 | 4.6 | 2.9 | 2.8 | 3.8 | 2.4 | 8.2 | 5.8 |
| Fecal Coliform(org/100mL) | 31616 | 562 | 192 | 325 | 148 | 600 | 1740 | 1467 | 325 | 112 | 38 | 6800 | 600 |
| Suspended Solids(mg/L) | 530 | 168 | 52.5 | 88.6 | 29.8 | 178 | 162 | 359 | 34 | 32.1 | 49.2 | 1572 | 135 |
| Turbidity(NTU) | 82079 | 88 | 60 | 72 | 27 | 150 | 80 | 58 | 36.5 | 17 | 22 | 500 | 170 |
| pH | 400 | 7.92 | 8.08 | 7.87 | 7.91 | 7.44 | 7.8 | 7.88 | 7.83 | 7.29 | 8.18 | 8.15 | 7.45 |
| Temperature(C) | 10 | 20.23 | 23 | 29.41 | 31.33 | 27.57 | 30.29 | 28.06 | 27.65 | 18.32 | 14.59 | 10.26 | 17.03 |
| Dissolved Oxygen(mg/L) | 300 | 7.21 | 7.16 | 6.83 | 7.73 | 3.34 | 5.76 | 6.22 | 6.02 | 7.95 | 10.06 | 9.11 | 10.43 |
| Conductivity(umhos/cm) | 94 | 763 | 664 | 578 | 691 | 350 | 644 | 680 | 734 | 800 | 749 | 445 | 314 |
| Total Phosphorus(mg/L) | 665 | 2.09 | 1.08 | 0.86 | 0.54 | 0.87 | 0.96 | 1.12 | 1.07 | 0.93 | 1.1 | 4.04 | 0.91 |
| Nitrate-N(mg/L) | 620 | 10.6 | 2.4 | 2 | 0.56 | 0.78 | 1.76 | 2.2 | 1.75 | 2.7 | 16.9 | 5.4 | 1.3 |
| Water Quality Index | | 0 | 56.49 | 22.2 | 70.07 | 0 | 0 | 0 | 21.55 | 75.57 | 62.63 | 0 | 0 |

TABLE 7 (cont.)

TNRCC Segment 1803
 TNRCC Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|--------------|-------------|-------------|------------|------------|-------------|---------------|---------------|---------------|--------------|--------------|
| | Parameter Code | 3/20/91 1138 | 4/16/91 1115 | 5/14/91 942 | 6/3/91 1126 | 7/9/91 950 | 8/8/91 845 | 9/3/91 1020 | 10/15/91 1045 | 11/21/91 1111 | 12/26/91 1050 | 1/14/92 1211 | 2/28/92 1122 |
| Flow (cfs) | | 5.5 | 7.8 | 7.8 | 6 | 7.3 | 3.2 | 2.9 | 2.9 | 4.6 | 10.8 | 8 | 9.8 |
| Fecal Coliform(org/100mL) | 31616 | 275 | 300 | 1044 | 89 | 778 | 912 | 275 | 156 | 1000 | 3000 | 425 | 2200 |
| Suspended Solids(mg/L) | 530 | 38.7 | 204 | 246 | 70.2 | 170 | 79.8 | 76.8 | 64.9 | 92.4 | 149 | 75.2 | 181 |
| Turbidity(NTU) | 82079 | 25 | 124 | 174 | 36 | 73 | 38 | 42.5 | 32 | 67 | 248 | 66 | 200 |
| pH | 400 | 8.22 | 7.69 | 7.77 | 8.05 | 7.76 | 8.03 | 7.96 | 8.35 | 7.48 | 8.04 | 7.77 | 7.78 |
| Temperature(C) | 10 | 19.59 | 24.3 | 24.84 | 29.4 | 28.52 | 29.72 | 29.17 | 23.71 | 17.24 | 13.64 | 13 | 15.9 |
| Dissolved Oxygen(mg/L) | 300 | 8.52 | 5.21 | 5.48 | 6 | 7.79 | 5.97 | 5.45 | 7.18 | 6.9 | 7.27 | 8.83 | 7.44 |
| Conductivity(umhos/cm) | 94 | 609 | 435 | 423 | 606 | 577 | 468 | 612 | 696 | 444 | 248 | 644 | 344 |
| Total Phosphorus(mg/L) | 665 | 2.3 | 1 | 1.39 | 0.43 | 1.02 | 0.67 | 0.36 | 0.64 | 0.71 | 1.19 | 0.72 | 0.91 |
| Nitrate-N(mg/L) | 620 | 3 | 0.85 | 1.51 | 1.5 | 4.2 | 2.22 | 1.05 | 0.52 | 1.95 | 0.66 | 1.79 | 1.14 |
| Water Quality Index | | 0.43 | 23.88 | 0 | 75.42 | 0 | 0 | 42.04 | 67.93 | 0 | 0 | 0 | 0 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|-------------|--------------|
| | Parameter Code | 3/16/92 1153 | 4/27/92 847 | 5/12/92 920 | 6/10/92 1020 | 7/28/92 1052 | 8/17/92 1145 | 9/15/92 1110 | 10/20/92 1057 | 11/24/92 1023 | 12/15/92 1057 | 1/20/93 955 | 2/24/93 1018 |
| Flow (cfs) | | 8.3 | 8.1 | 7.9 | 8.4 | 7.5 | 6.9 | 6.8 | 5.2 | 8.1 | 6.3 | 6.2 | 7 |
| Fecal Coliform(org/100mL) | 31616 | 200 | 188 | 76 | 189 | 89 | 4800 | 192 | 112 | 300 | 450 | 230 | 148 |
| Suspended Solids(mg/L) | 530 | 147 | 210 | 117 | 146 | 91 | 80.5 | 128 | 50 | 447 | 42.4 | 41.2 | 58 |
| Turbidity(NTU) | 82079 | 85 | 96 | 50 | 82 | 62 | 47 | 60 | 30 | 156 | 27 | 28 | 38 |
| pH | 400 | 7.97 | 7.83 | 8 | 7.74 | 7.91 | 8.24 | 8.04 | 7.79 | 7.97 | 8.22 | 7.76 | 8.46 |
| Temperature(C) | 10 | 18.65 | 21.64 | 23.27 | 26.44 | 29.38 | 27.7 | 27.28 | 23.36 | 17.04 | 14.7 | 14.53 | 17.71 |
| Dissolved Oxygen(mg/L) | 300 | 7.3 | 6.15 | 6.43 | 5.75 | 5.91 | 6.18 | 5.85 | 6.4 | 7.8 | 8.91 | 9.21 | 8.91 |
| Conductivity(umhos/cm) | 94 | 647 | 674 | 765 | 598 | 714 | 757 | 796 | 730 | 360 | 733 | 734 | 643 |
| Total Phosphorus(mg/L) | 665 | 0.56 | 0.5 | 0.52 | 0.79 | 0.62 | 0.47 | 0.52 | 0.63 | 1.4 | 0.7 | 0.48 | 0.53 |
| Nitrate-N(mg/L) | 620 | 2 | 1.6 | 2.6 | 1.45 | 2.16 | 1.5 | 0.42 | 1.11 | 1.7 | 2 | 2.45 | 2.3 |
| Water Quality Index | | 58.64 | 58.07 | 76.47 | 56.51 | 72.33 | 0 | 58 | 76.67 | 4.08 | 0 | 62.21 | 71.3 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|--------------|--------------|
| | Parameter Code | 3/24/93 1113 | 4/22/93 1325 | 5/27/93 1225 | 6/23/93 1157 | 7/19/93 1144 | 8/10/93 1301 | 9/28/93 1330 | 10/15/93 937 | 11/16/93 1345 | 12/28/93 1141 | 1/18/94 1152 | 2/22/94 1205 |
| Fecal Coliform(org/100mL) | 31616 | 216 | 16 | 2100 | 350 | 48 | 24 | 64 | 662 | 25 | 136 | 104 | 68 |
| Suspended Solids(mg/L) | 530 | 68.3 | 104 | 503 | 210 | 94.2 | 63.1 | 62.1 | 104.7 | 52.2 | 30.4 | 28.8 | 37.2 |
| Turbidity(NTU) | 82079 | 40 | 48 | 264 | 104 | 43 | 33 | 34 | 64 | 23 | 18.4 | 20 | 27 |
| pH | 400 | 7.98 | 8.06 | 7.99 | 7.69 | 7.96 | 8.06 | 7.78 | 7.86 | 8.02 | 8.09 | 8.16 | 8.1 |
| Temperature(C) | 10 | 19.33 | 22.3 | 23.11 | 27.47 | 29.76 | 30.82 | 26.97 | 24.14 | 19.8 | 13.23 | 14.04 | 18.78 |
| Dissolved Oxygen(mg/L) | 300 | 7.97 | 7.83 | 6.27 | 4.74 | 5.81 | 6.26 | 6.99 | 6.82 | 7.9 | 9.69 | 9.25 | 8.04 |
| Conductivity(umhos/cm) | 94 | 565 | 678 | 401 | 356 | 800 | 851 | 809 | 714 | 767 | 798 | 810 | 770 |
| Total Phosphorus(mg/L) | 665 | 1.17 | 0.48 | 0.75 | 0.49 | 0.44 | 0.31 | 0.45 | 0.39 | 0.45 | 0.28 | 0.44 | 0.37 |
| Nitrate-N(mg/L) | 620 | 1.35 | 1.07 | 1.3 | 1.1 | 1.4 | 2.2 | 2.12 | 1.5 | 1.96 | 2.7 | 5.8 | 2.6 |
| Water Quality Index | | 51.1 | 82.2 | 0 | 13.09 | 76.1 | 78.16 | 80.82 | 0 | 84.83 | 76.13 | 77.57 | 83.5 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|-------------|
| | Parameter Code | 3/22/94 1146 | 4/12/94 1210 | 5/17/94 1147 | 6/20/94 1227 | 7/19/94 1244 | 8/23/94 1515 | 9/20/94 1408 | 10/18/94 1151 | 11/29/94 1102 | 12/13/94 1205 | 1/16/95 1146 | 2/7/95 1202 |
| Fecal Coliform(org/100mL) | 31616 | 638 | 75 | 1767 | 68 | 32 | 325 | 462 | 155 | 124 | 56 | 488 | 24 |
| Suspended Solids(mg/L) | 530 | 233 | 72 | 495 | 106 | 64.2 | 76.2 | 120 | 86.8 | 19.8 | 31 | 65.2 | 35.3 |
| Turbidity(NTU) | 82079 | 132 | 38 | 300 | 43 | 66 | 44 | 59 | 65 | 23 | 20 | 44 | 20 |
| pH | 400 | 7.63 | 8.04 | 7.41 | 7.97 | 8.01 | 8.05 | 7.82 | 7.76 | 7.85 | 8.01 | 7.93 | 7.99 |
| Temperature(C) | 10 | 21.25 | 22.55 | 24.27 | 29.85 | 31.19 | 29.16 | 27.45 | 24.61 | 20.01 | 15.83 | 15.93 | 16.31 |
| Dissolved Oxygen(mg/L) | 300 | 6.9 | 7.26 | 5.17 | 6.67 | 5.9 | 7.22 | 6.65 | 6.71 | 8.04 | 9.12 | 8.16 | 9.57 |
| Conductivity(umhos/cm) | 94 | 470 | 763 | 477 | 716 | 811 | 1241 | 640 | 522 | 738 | 662 | 488 | 795 |
| Total Phosphorus(mg/L) | 665 | 1.9 | 0.55 | 1.16 | 0.74 | 1.06 | 1.04 | 4.32 | 0.55 | 0.41 | 0.36 | 0.44 | 0.3 |
| Nitrate-N(mg/L) | 620 | 1.7 | 2.3 | 1.6 | 2.6 | 1.01 | 6.6 | 2.7 | 2.2 | 2.5 | 2.35 | 2.05 | 2.6 |
| Water Quality Index | | 0 | 79.47 | 0 | 72.01 | 75.51 | 24.71 | 0 | 70.4 | 80.39 | 85.55 | 0 | 87.28 |

TABLE 7 (cont.)

TNRCC Segment 1803
 TNRCC Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|---------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|--------|---------|
| | Parameter Code | 3/14/95 | 4/26/95 | 5/30/95 | 6/12/95 | 7/17/95 | 8/21/95 | 9/25/95 | 10/17/95 | 11/27/95 | 12/18/95 | 1/8/96 | 2/12/96 |
| Fecal Coliform(org/100mL) | 31616 | 500 | 120 | 775 | 162 | 28 | 86 | 2380 | 56 | 52 | 662 | 288 | 168 |
| Suspended Solids(mg/L) | 530 | 69 | 139 | 102 | 66.6 | 34.9 | 60 | 970 | 46.2 | 35.4 | 50 | 30 | 33 |
| Turbidity(NTU) | 82079 | 50 | 55 | 48 | 3.9 | 40 | 28 | 360 | 27 | 23 | 27 | 21 | 27 |
| pH | 400 | 7.82 | 8.18 | 7.86 | 8.48 | 8.11 | 8.2 | 8.1 | 8.35 | 8.34 | 8.08 | 7.41 | 8.18 |
| Temperature(C) | 10 | 20.1 | 22.19 | 27.91 | 28.82 | 30.47 | 30 | 24.37 | 21.84 | 18.79 | 20.4 | 9.97 | 16.06 |
| Dissolved Oxygen(mg/L) | 300 | 7.94 | 11.93 | 6.57 | 6.32 | 6.73 | 7.9 | 6.54 | 7.51 | 8.65 | 7.81 | 10.51 | 9.5 |
| Conductivity(umhos/cm) | 94 | 710 | 740 | 830 | 480 | 600 | 750 | 751 | 775 | 727 | 706 | 721 | 803 |
| Total Phosphorus(mg/L) | 665 | 0.41 | 0.63 | 0.61 | 1.11 | 0.54 | 0.65 | 2.1 | 0.68 | 0.66 | 1.12 | 0.51 | 0.52 |
| Nitrate-N(mg/L) | 620 | 1.9 | 1.9 | 3.3 | 1.2 | 1.95 | 2.1 | 5.3 | 2.49 | 3.62 | 2.7 | 3.98 | 3.6 |
| Water Quality Index | | 0 | 75.63 | 0 | 59.22 | 79.12 | 74.16 | 0 | 79.01 | 80.94 | 0 | 42.8 | 70.34 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|-----------------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|---------|
| | Parameter Code | 3/20/96 | 4/23/96 | 5/28/96 | 6/24/96 | 7/22/96 | 8/19/96 | 9/23/96 | 10/22/96 | 11/12/96 | 12/17/96 | 1/28/97 | 2/26/97 |
| Fecal Coliform(org/100mL) | 31616 | 52 | 64 | 60 | 375 | 134 | 20 | 2800 | 111 | 112 | 108 | 275 | 178 |
| Suspended Solids(mg/L) | 530 | 71.2 | 53.4 | 41.8 | 67.8 | 30 | 17 | 174 | 32.7 | 32.3 | 42.5 | 133 | 51.5 |
| Turbidity(NTU) | 82079 | 27 | 25 | 24 | 38 | 24 | 28 | 108 | 26 | 23 | 25 | 72 | 37 |
| pH | 400 | 8.42 | 8.1 | 8.22 | 7.88 | 7.98 | 8.04 | 7.52 | 7.72 | 8.01 | 7.83 | 7.97 | 7.92 |
| Temperature(C) | 10 | 19.53 | 24.25 | 29.16 | 28.96 | 31.03 | 29.58 | 28.06 | 23.17 | 19.59 | 15.58 | 14.49 | 15.41 |
| Dissolved Oxygen(mg/L) | 300 | 8.12 | 6.42 | 5.76 | 6.02 | 5.31 | 5.41 | 2.4 | 6.98 | 8.22 | 8.55 | 8.84 | 10.03 |
| Conductivity(umhos/cm) | 94 | 817 | 944 | 933 | 893 | 1246 | 1216 | 392 | 826 | 853 | 769 | 477 | 729 |
| Total Phosphorus(mg/L) | 665 | 0.66 | 0.6 | 0.6 | 0.68 | 0.54 | 0.68 | 0.68 | 0.33 | 0.75 | 0.64 | 0.94 | 0.63 |
| Nitrate-N(mg/L) | 620.00 | 4.90 | 3.40 | 2.50 | 2.94 | 3.52 | 2.40 | 0.95 | 3.25 | 4.30 | 4.00 | 2.20 | 2.80 |
| Chloride(mg/L) | 940 | | | | | | | | 80.8 | 97.6 | 77.6 | 15.8 | 77.7 |
| Sulfate(mg/L) | 945 | | | | | | | | 61 | 74 | 55.4 | 12 | 31.8 |
| Total Hardness(mg/L) | 900 | | | | | | | | 254 | 278 | 255 | 151 | 247 |
| Ammonia-N(mg/L) | 610 | | | | | | | | 0.12 | | 0.17 | | 0.14 |
| E. coli(org/100mL) | 31648 | | | | | | | | 38 | 60 | 16 | 275 | 62 |
| Chlorophyll a(mg/m ³) | 32211 | | | | | | | | 12.5 | 4.67 | <1.0 | <1.0 | 13.3 |
| Water Quality Index | | 77.38 | 78.17 | 75.02 | 6.87 | 65.83 | 75.96 | -3821.7 | 80.54 | 75.91 | 77.3 | 36.63 | 68.47 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|-----------------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|---------|
| | Parameter Code | 3/19/97 | 4/23/97 | 5/12/97 | 6/18/97 | 7/17/97 | 8/26/97 | 9/16/97 | 10/27/97 | 11/19/97 | 12/10/97 | 1/13/98 | 2/11/98 |
| Fecal Coliform(org/100mL) | 31616 | 1600 | 84 | 470 | 250 | 40 | 66 | 188 | 350 | 262 | 1062 | 812 | 83 |
| Suspended Solids(mg/L) | 530 | 110 | 90.4 | 104 | 94.7 | 96.8 | 118 | 114 | 76 | 48.2 | 41.9 | 119 | 62.4 |
| Turbidity(NTU) | 82079 | 72 | 39.5 | 140 | 160 | 45 | 24 | 47 | 41.5 | 32 | 37 | 54 | 35 |
| pH | 400 | 7.90 | 7.94 | 7.50 | 6.78 | 8.04 | 8.00 | 7.94 | 7.83 | 7.94 | 8.06 | 7.59 | 8.12 |
| Temperature(C) | 10 | 18.80 | 21.49 | 22.32 | 28.30 | 29.80 | 29.38 | 29.71 | 20.32 | 12.96 | 15.73 | 17.63 | 16.39 |
| Dissolved Oxygen(mg/L) | 300 | 6.84 | 7.43 | 6.36 | 4.4 | 6.22 | 6.45 | 5.94 | 7.52 | 9.36 | 9.16 | 5.85 | 9.51 |
| Conductivity(umhos/cm) | 94 | 268 | 516 | 440 | 396 | 859 | 633 | 614 | 595 | 584 | 638 | 481 | 622 |
| Total Phosphorus(mg/L) | 665 | 0.68 | 0.40 | 0.43 | 0.54 | 0.67 | 0.34 | 0.47 | 0.42 | 0.51 | 0.38 | 0.48 | 0.30 |
| Nitrate-N(mg/L) | 620.00 | 1.50 | 1.68 | 2.3 | 0.59 | 1.28 | 0.52 | 1.86 | 2.10 | 1.80 | 2.20 | 1.80 | 0.97 |
| Chloride(mg/L) | 940 | 18.3 | 42.0 | 40.2 | 22 | 33 | 41.6 | 51.7 | 44.9 | 51.1 | 58.5 | 42.6 | 45.2 |
| Sulfate(mg/L) | 945 | <0.5 | 34.1 | 40.6 | 6.2 | 44.2 | 34.2 | 45.4 | 53.2 | 49 | 90.8 | 31 | 44.5 |
| Total Hardness(mg/L) | 900 | 101 | 203 | 165 | 191 | 246 | 242 | 270 | 246 | 214 | 210 | 178 | 236 |
| Ammonia-N(mg/L) | 610 | | 0.13 | | 0.13 | | 0.06 | | 0.04 | | 0.1 | | 0.12 |
| E. coli(org/100mL) | 31648 | 1200 | 68 | 360 | 125 | 40 | 33 | 38 | 150 | 112 | 162.0 | 488 | 50 |
| Chlorophyll a(mg/m ³) | 32211 | 1.8 | 1.3 | 1.3 | 2.7 | 9.1 | 7.3 | 12.7 | 5.3 | 1.3 | 8.0 | 4 | 6 |
| Water Quality Index | | 0 | 81.02 | 0 | 67.5 | 73.72 | 76.49 | 61.19 | 24.36 | 49.66 | 0.0 | 0 | 82.86 |

TABLE 7 (Con't)

TNRCC Segment 1803
 TNRCC Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|
| | Parameter Code | 3/13/01 1102 | 4/16/01 1033 | 5/14/01 1054 | 6/25/01 1212 | 7/10/01 1023 | 8/14/01 1129 | 9/10/01 1156 | 10/16/01 1108 | 11/13/01 1100 | 12/18/01 1141 | 1/16/02 1135 | 2/15/02 1133 |
| Fecal Coliform(org/100mL) | 31616 | 120 | 46 | 140 | 45 | 56 | 18 | 100 | 280 | 40 | ** | | |
| Suspended Solids(mg/L) | 530 | 73.3 | 76.4 | 128 | 86 | 63.7 | 49.9 | 45.1 | 37.6 | 34.1 | 94.8 | 28.8 | 26.2 |
| Turbidity(NTU) | 82079 | 42 | 35 | 69 | 35 | 34 | 27 | 46 | 26 | 17 | 58 | 17 | 15 |
| pH | 400 | 8.2 | 8.17 | 7.95 | 7.71 | 8.1 | 7.43 | 8.7 | 7.64 | 8.17 | 7.78 | 8.07 | 8.44 |
| Temperature(C) | 10 | 18.93 | 19.28 | 26.21 | 29.81 | 30.71 | 31.16 | 26.27 | 22.52 | 21.28 | 16.32 | 13.94 | 14.74 |
| Dissolved Oxygen(mg/L) | 300 | 9.05 | 8.91 | 7.19 | 6.9 | 6.75 | 6.56 | 3.85 | 7.57 | 8.59 | 8.87 | 11.05 | 11.6 |
| Conductivity(umhos/cm) | 94 | 590 | 595 | 564 | 690 | 724 | 813 | 271 | 651 | 686 | 492 | 707 | 706 |
| Total Phosphorus(mg/L) | 665 | 0.245 | 0.4 | 0.52 | 0.3 | 0.26 | 0.32 | 0.46 | 0.26 | 0.34 | 0.5 | 0.26 | 0.27 |
| Nitrate-N(mg/L) | 620.00 | 1.41 | 1.96 | 1.34 | 1.4 | 2.5 | 1.49 | 0.18 | 0.96 | 1.5 | 1.3 | 1.9 | 2 |
| Chloride(mg/L) | 940 | 43.6 | 116 | 39 | 57.6 | 50.4 | 83.9 | 7.4 | 44.5 | 56.4 | 40 | 66.4 | 48.4 |
| Sulfate(mg/L) | 945 | 49 | 96 | 47.9 | 39.8 | 47.2 | 62 | 3.2 | 24.2 | 35.6 | 38.8 | 52.4 | 37.2 |
| Total Hardness(mg/L) | 900 | 233 | 461 | 232 | 256 | 266 | 252 | 110 | 188 | 275 | 268 | 280 | 292 |
| Ammonia-N(mg/L) | 610 | | <0.02 | | <0.02 | | 0.04 | | 0.04 | | <0.02 | | 0.03 |
| E. coli(org/100mL) | 31648 | 100 | 32 | 120 | 30 | 36 | 18 | 40 | 260 | 28 | 96 | 40 | 12 |
| Chlorophyll a (mg/m ³) | 32211 | 4.3 | 2 | 8 | 9.6 | 7.7 | 10.5 | <1 | 9.9 | 3.6 | <1 | 7.1 | <1 |
| Pheophytin (mg/m ³) | 32218 | | | | | | | | | | 33.3 | 2.1 | 18.5 |
| Flow | | | 512 | 2700 | 1090 | 1010 | 662 | 3000 | 2460 | 1739 | 2870 | 2020 | 2140 |

** Fecal Coliform was dropped from the list of parameters analyzed. E. coli is used for the Water Quality Index (126 org/100mL).

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------------|--------------|--------------|--------------|----------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|
| | Parameter Code | 3/19/02 1105 | 4/15/02 1125 | 5/22/02 1132 | 6/12/02 1053 | Flooding | 8/12/02 1143 | 9/24/02 1053 | 10/16/02 1134 | 11/21/02 1005 | 12/19/02 1045 | 1/13/03 1135 | 2/24/03 1108 |
| E. coli(org/100mL) | 31699 | 26 | 770 | 45 | 21 | | 44 | 54 | 980 | 41 | 114 | 308 | 1124 |
| Suspended Solids(mg/L) | 530 | 43.3 | 144 | 154 | 78.9 | | 152 | 248 | 167 | 85.7 | 134 | 49 | 187 |
| Turbidity(NTU) | 82079 | 22 | 78 | 36 | 44 | | 53 | 82 | 90 | 48 | 76 | 35 | 53 |
| pH | 400 | 8.08 | 7.9 | 8.03 | 7.99 | | 7.84 | 7.79 | 7.85 | 7.71 | 7.89 | 7.9 | 7.76 |
| Temperature(C) | 10 | 21.04 | 23.73 | 25.08 | 30.38 | | 29.3 | 25 | 20 | 17 | 17.9 | 11.1 | 16.5 |
| Dissolved Oxygen(mg/L) | 300 | 8.8 | 6.33 | 7.47 | 6.39 | | 7.19 | 6.55 | 7.49 | 9.02 | 8.82 | 11.1 | 10.1 |
| Conductivity(umhos/cm) | 94 | 700 | 482 | 802 | 808 | | 510 | 559 | 371 | 0.31 | 545 | 798 | 802 |
| Total Phosphorus(mg/L) | 665 | 0.18 | 0.46 | 0.35 | 0.31 | | 0.48 | 0.48 | 0.4 | 1.12 | 0.41 | 0.23 | 0.5 |
| Nitrate-N(mg/L) | 620 | 1.8 | 2 | 1.8 | 1.5 | | 1.05 | 0.66 | 0.42 | 54.9 | 1.06 | 1 | 1.48 |
| Chloride(mg/L) | 940 | 59.9 | 33.6 | 79.7 | 73.3 | | 51.4 | 38.9 | 17.4 | 66.6 | 42.6 | 59.5 | 78.9 |
| Sulfate(mg/L) | 945 | 45.8 | 35.3 | 61.1 | 59.3 | | 60.5 | 51.2 | 23.8 | 327 | 45.7 | 63.4 | 79 |
| Total Hardness(mg/L) | 900 | 305 | 178 | 324 | 330 | | 394 | 303 | 202 | | 293 | 328 | 336 |
| Ammonia-N(mg/L) | 610 | | 0.06 | | <0.02 | | | | 0.02 | | 0.03 | | 0.05 |
| Chlorophyll a (mg/m ³) | 32211 | 15.2 | 7.5 | 19.8 | 6.7 | | 9.1 | 2.67 | <1 | <1 | <1 | 1.47 | 8.01 |
| Pheophytin (mg/m ³) | 32218 | 4.6 | 8.6 | 9.8 | 14.3 | | 24.2 | 7.05 | 4.4 | 7.5 | 7.23 | 5.54 | 6.94 |
| Flow | | 1429 | 2640 | 1130 | 859 | | gauge out | 2710 | 3040 | gauge out | 2610 | 2530 | 2940 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| | Parameter Code | 3/20/03 1127 | 4/15/03 1113 | 5/13/03 1122 | 6/24/03 1117 | 7/28/03 1125 | 8/20/03 1150 | 9/11/03 1143 | 10/07/03 1128 | 11/05/04 1128 | 12/03/03 1105 | 01/13/04 1120 | 02/17/04 1136 |
| E. coli(org/100mL) | 31699 | 36 | 14 | 14 | 4 | 14 | 20 | 34 | 91 | 31 | 59 | 130 | 461 |
| Suspended Solids(mg/L) | 530 | 59 | 70.8 | 90.3 | 91.6 | 90 | 73.3 | 152 | 80.3 | 47.3 | 27.4 | 40.7 | 63.5 |
| Turbidity(NTU) | 82079 | 30 | 29 | 49 | 41 | 35* | 22.8 | 114 | 57.3 | 34.4 | 33.5 | 24.5 | 41.7 |
| pH | 400 | 7.91 | 7.65 | 7.56 | 7.75 | 7.92 | 8.05 | 8.14 | 8.08 | 8.2 | 8.23 | 8.14 | 8.24 |
| Temperature(C) | 10 | 20.2 | 22.3 | 28.1 | 31.3 | 30.5 | 31 | 28.8 | 25.2 | 24.5 | 16.8 | 14.1 | 13 |
| Dissolved Oxygen(mg/L) | 300 | 8.76 | 8.48 | 8.78 | 7.07 | 7.34 | 5.5 | 7.31 | 7.66 | 8.26 | 7.55 | 10.2 | 10.4 |
| Conductivity(umhos/cm) | 94 | 790 | 799 | 751 | 627 | 689 | 761 | 741 | 719 | 753 | 803 | 823 | 643 |
| Total Phosphorus(mg/L) | 665 | 0.21 | 0.14 | 0.18 | 0.18 | 0.28 | 0.18 | 0.58 | 0.26 | 0.29 | 0.38 | 0.21 | 0.27 |
| Nitrate-N(mg/L) | 620 | 0.9 | 0.97 | 1.04 | 0.78 | 0.62 | 0.83 | 1.09 | 1.34 | 1.11 | 1.13 | 1.8 | 1.43 |
| Chloride(mg/L) | 940 | 62.9 | 63.1 | 57.2 | 46.5 | 53 | 62.3 | 61.3 | 55.6 | 64.8 | 68.1 | 66.5 | 56.6 |
| Sulfate(mg/L) | 945 | 63 | 61.7 | 56.6 | 45.8 | 48.6 | 59.2 | 57.1 | 50.9 | 56.5 | 57.3 | 56.6 | 47.4 |
| Total Hardness(mg/L) | 900 | 313 | 313 | 309 | 283 | 272 | 287 | 275 | 276 | 286 | 297 | 297 | 239 |
| Ammonia-N(mg/L) | 610 | | 0.05 | | 0.02 | | 0.02 | | 0.03 | | 0.03 | | 0.06 |
| Chlorophyll a (mg/m ³) | 32211 | 11.7 | 14.7 | 14.8 | 14.1 | 6.5 | 5.1 | 2.9 | 10.4 | 7.7 | 5.1 | <5.0 | <5.0 |
| Pheophytin (mg/m ³) | 32218 | 7.31 | 16.4 | 13.8 | 12.5 | 18.2 | 14.4 | 3.8 | <1 | 1.3 | <3.0 | <3.0 | <3.0 |
| Flow | | 2770 | 2460 | 2160 | 1830 | 2120 | 1480 | 1970 | 1860 | 1780 | 1100 | 1390 | 2360 |

* - Estimated value - Sample was analyzed outside of holding time.

TABLE 7 (Con't)

TCEO Segment 1803
 TCEO Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------|
| | Parameter Code | 03/05/04 1128 | 04/14/04 1117 | 05/19/04 1113 | 06/17/04 1103 | 7/15/04 1217 | 8/10/04 1054 | 9/14/04 1144 | 10/18/04 1237 | 11/5/04 1144 | 12/6/04 1230 | 1/11/05 1113 | 2/7/05 |
| E. coli(org/100mL) | 31699 | 276 | 1312 | 212 | 264 | 32 | 15 | 59 | 276 | 912 | 104 | 86 | 664 |
| Suspended Solids(mg/L) | 530 | 47.2 | 332 | 152 | 151 | 111 | 60.2 | 85.2 | 142 | 378 | 198 | 67.1 | 98 |
| Turbidity(NTU) | 82079 | 51.6 | 284 | 221 | 161 | 86.3 | 47.4 | 73.9 | 113 | 337 | 165 | 52.4 | 76 |
| pH | 400 | 8.12 | 8.26 | 7.87 | 7.58 | 7.79 | 7.89 | 7.98 | 7.85 | 7.68 | 7.67 | 7.77 | 7.68 |
| Temperature(C) | 10 | 20.1 | 18.1 | 25.5 | 27.5 | 29.4 | 30.8 | 20.3 | 24.6 | 19.7 | 17.8 | 18.2 | 14.5 |
| Dissolved Oxygen(mg/L) | 300 | 9.6 | 7.27 | 4.48 | 6.23 | 5.18 | 6.89 | 6.81 | 7.4 | 7.71 | 10.2 | 8.89 | 9.75 |
| Conductivity(umhos/cm) | 94 | 720 | 450 | 338 | 548 | 628 | 716 | 669 | 618 | 455 | 665 | 811 | 655 |
| Total Phosphorus(mg/L) | 665 | 0.24 | 0.27 | 0.25 | 0.46 | 0.38 | 0.19 | 0.24 | 0.44 | 0.67 | 0.26 | 0.23 | 0.29 |
| Nitrate-N(mg/L) | 620.00 | 0.84 | 1.11 | 1 | 0.57 | 0.64 | 0.4 | 0.47 | 0.83 | 1.5 | 1.57 | 2.36 | 2.62 |
| Chloride(mg/L) | 940 | 61.8 | 40.7 | 21 | 58 | 43.4 | 54.9 | 48.6 | 49.1 | 35.4 | 42.6 | 53.9 | 50.5 |
| Sulfate(mg/L) | 945 | 48.5 | 30.9 | 17.2 | 47.7 | 52.3 | 50.7 | 43.8 | 44.6 | 37.2 | 57.9 | 65.7 | 53.8 |
| Total Hardness(mg/L) | 900 | 255 | 229 | 164 | 200 | 281 | 284 | 290 | 267 | 316 | 318 | 317 | 254 |
| Ammonia-N(mg/L) | 610 | | 0.11 | | 0.03 | | 0.06 | | 0.08 | | 0.02 | | 0.06 |
| Chlorophyll a (mg/m ³) | 32211 | <5.0 | <5.0 | <5.0 | 5.5 | 11.9 | 11.4 | 4.4 | 1.9 | <1 | 2.1 | 6.5 | 3.6 |
| Pheophytin (mg/m ³) | 32218 | 3.1 | 9.8 | 4.2 | 3.2 | <3 | <3 | <3 | <3 | <3 | 7 | <3 | 3.3 |
| Flow | | 1770 | 3080 | gauge out | | | | | | | | 2890 | 2920 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|-------------|
| | Parameter Code | 3/2/05 1115 | 4/5/05 1205 | 5/3/05 1125 | 6/7/05 1155 | 7/7/05 1131 | 8/1/05 1120 | 9/9/05 1307 | 10/4/05 1151 | 11/2/05 1225 | 12/7/05 1146 | 1/4/06 1238 | 2/2/06 1140 |
| E. coli(org/100mL) | 31699 | 352 | 67 | 19 | 58 | 11 | 84 | 21 | 36 | 75 | 52 | 81 | 49 |
| Suspended Solids(mg/L) | 530 | 169 | 74.6 | 81.8 | 82.1 | 85.9 | 52.3 | 67.3 | 31.7 | 57.7 | 49 | 38.7 | 62.7 |
| Turbidity(NTU) | 82079 | 148 | 62 | 65 | 70.9 | 29.3 | 61.2 | 30.1 | 24 | 33.8 | 21.9 | 31.3 | 38.7 |
| pH | 400 | 7.63 | 7.82 | 7.89 | 7.86 | 8.04 | 7.94 | 8.05 | 8.07 | 8.24 | 8.16 | 8.13 | 8.09 |
| Temperature(C) | 10 | 17.9 | 21.4 | 22.7 | 29.5 | 31.4 | 30.4 | 28.8 | 29.3 | 19.4 | 15.6 | 17.5 | 17.1 |
| Dissolved Oxygen(mg/L) | 300 | 9.05 | 8.83 | 8.41 | 5.82 | 6.3 | 7.64 | 7.02 | 7.41 | 8.8 | 10 | 9.8 | 9.54 |
| Conductivity(umhos/cm) | 94 | 599 | 739 | 788 | 646 | 749 | 720 | 750 | 711 | 772 | 801 | 821 | 821 |
| Total Phosphorus(mg/L) | 665 | 0.17 | 0.14 | 0.17 | 0.34 | 0.21 | 0.26 | 0.24 | 0.25 | 0.18 | 0.19 | 0.37 | 0.31 |
| Nitrate-N(mg/L) | 620 | 2.21 | 1.68 | 2.04 | 2.38 | 1.42 | 2.3 | 2.52 | 2.32 | 4.1 | 4.05 | 4.05 | 3.65 |
| Chloride(mg/L) | 940 | 47.7 | 49 | 51.7 | 50.4 | 61.3 | 53.3 | 57.8 | 54.3 | 63.4 | 63 | 65.5 | 70 |
| Sulfate(mg/L) | 945 | 45.8 | 50.4 | 52.3 | 47.1 | 56.6 | 48.9 | 50.1 | 47.5 | 53.3 | 54.1 | 56.2 | 57.5 |
| Total Hardness(mg/L) | 900 | 252 | 314 | 325 | 268 | 294 | 296 | 280 | 293 | 295 | 319 | 320 | 318 |
| Ammonia-N(mg/L) | 610 | | 0.04 | | 0.06 | | 0.02 | | 0.04 | | 0.05 | | 0.04 |
| Chlorophyll a (mg/m ³) | 32211 | 5 | 38.3 | 15.2 | 11.7 | 17.4 | 16.5 | 17 | 7.6 | 6.2 | 4.8 | 4.2 | 3.5 |
| Pheophytin (mg/m ³) | 32218 | 4.1 | <3 | 4.3 | 3.8 | 4.6 | 7.6 | 5.9 | 3.3 | 1.6 | <1 | <1 | 1 |
| Flow | | 3010 | 2920 | 2510 | 2800 | 1460 | 1640 | 1320 | 1140 | 1200 | 1240 | 1330 | 1190 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|---------------|--------------|--------------|-------------|-------------|
| | Parameter Code | 3/3/06 1242 | 4/5/06 1253 | 5/2/06 1219 | 6/7/06 1235 | 7/12/06 1303 | 8/10/06 1127 | 9/6/06 1225 | 10/12/06 1202 | 11/1/06 1207 | 12/5/06 1202 | 1/9/07 1306 | 2/6/07 1154 |
| E. coli(org/100mL) | 31699 | 73 | 47 | 51 | 59 | 70 | 440 | 28 | 43 | 93 | 41 | 920 | 130 |
| Suspended Solids(mg/L) | 530 | 53.3 | 30.3 | 120 | 96 | 97.3 | 35.3 | 20.7 | 36 | 49.8 | 29 | 176 | 85.3 |
| Turbidity(NTU) | 82079 | 38.4 | 52.9 | 54.8 | 41.1 | 71.9 | 29.3 | 21 | 34.2 | 34.9 | 25.3 | 221 | 65.3 |
| pH | 400 | 8.17 | 8.17 | 8.09 | 7.76 | 7.65 | 8.03 | 8.08 | 7.99 | 8.12 | 8.17 | 7.95 | 7.83 |
| Temperature(C) | 10 | 20.4 | 24.8 | 25.9 | 28.3 | 29.4 | 30.5 | 28.3 | 25.8 | 22.4 | 12.8 | 13.6 | 12.5 |
| Dissolved Oxygen(mg/L) | 300 | 10 | 8.57 | 7.51 | 5.83 | 5.1 | 7.05 | 6.9 | 7.18 | 8.61 | 10.6 | 9.45 | 9.74 |
| Conductivity(umhos/cm) | 94 | 865 | 815 | 785 | 625 | 605 | 832 | 928 | 798 | 745 | 912 | 670 | 638 |
| Total Phosphorus(mg/L) | 665 | 0.28 | 0.09 | 0.32 | 0.41 | 0.38 | <0.05 | 0.29 | 0.38 | 0.36 | 0.46 | 0.71 | 0.35 |
| Nitrate-N(mg/L) | 620 | 3.36 | 4.05 | 3.1 | 1.14 | 1.34 | 0.92 | 2.04 | 3.16 | 2.48 | 4.32 | 3.84 | 2.09 |
| Chloride(mg/L) | 940 | 76 | 73 | 68 | 60.8 | 43.8 | 92.6 | 90 | 76.8 | 67.8 | 81.8 | 32 | 43.8 |
| Sulfate(mg/L) | 945 | 67 | 61.5 | 53 | 53 | 36.6 | 65.8 | 60.8 | 55.6 | 50.6 | 59.4 | 43.2 | 40 |
| Total Hardness(mg/L) | 900 | 308 | 261 | 312 | 220 | 196 | 270 | 270 | 242 | 278 | 248 | 290 | 217 |
| Ammonia-N(mg/L) | 610 | | 0.03 | | 0.02 | | 0.03 | | <0.02 | | 0.02 | | <0.02 |
| Chlorophyll a (mg/m ³) | 32211 | 7.7 | 4.3 | 9.6 | 16.8 | 6.5 | 12.2 | 16.5 | 7.1 | 4.6 | 1.5 | 2.1 | 5.1 |
| Pheophytin (mg/m ³) | 32218 | 1.5 | 2.3 | 4.2 | 3 | <1 | 1.2 | 3.2 | 1.6 | <1 | <1 | <1 | <1 |
| Flow | | 1120 | 1070 | 802 | 1330 | 1550 | 747 | gauge out | 575 | 848 | 421 | 1960 | 1820 |

TABLE 7 (Con't)

TCEO Segment 1803
 TCEO Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|-------------|-------------|-------------|--------------|--------------|-------------|--------------|---------------|---------------|---------------|-------------|--------------|
| | Parameter Code | 3/6/07 1245 | 4/3/07 1150 | 5/8/07 1210 | 6/12/07 1201 | 7/18/07 1222 | 8/7/07 1138 | 9/13/07 1134 | 10/12/07 1124 | 11/13/07 1202 | 12/11/07 1213 | 1/8/08 1222 | 2/13/08 1251 |
| E. coli(org/100mL) | 31699 | 43 | 3300 | 380 | 25 | 280 | 48 | 75 | 33 | 22 | 56 | 72 | 260 |
| Suspended Solids(mg/L) | 00530 | 42.7 | 398 | 153 | 62.7 | 69.7 | 135 | 99 | 53 | 48.7 | 62 | 22.3 | 66 |
| Turbidity(NTU) | 82079 | 11.3 | 440 | 145 | 46.7 | 96.6 | 110 | 88.5 | 35 | 28.3 | 37.9 | 14.4 | 33.2 |
| pH | 00400 | 8.19 | 7.6 | 7.52 | 7.72 | 7.63 | 7.66 | 7.74 | 7.83 | 7.85 | 7.95 | 8.1 | 8 |
| Temperature(C) | 00010 | 16.8 | 22.8 | 25.6 | 28.3 | 27.9 | 29.5 | 27.4 | 26.3 | 22.3 | 20.6 | 18.4 | 16.9 |
| Dissolved Oxygen(mg/L) | 00300 | 10.4 | 5.84 | 5.94 | 8.68 | 5.33 | 4.87 | 5.78 | 7.19 | 7.03 | 8.45 | 9.4 | 9.5 |
| Conductivity(umhos/cm) | 00094 | 828 | 391 | 447 | 586 | 577 | 611 | 594 | 732 | 766 | 780 | 1030 | 794 |
| Total Phosphorus(mg/L) | 00665 | 0.49 | 0.7 | 0.45 | 0.16 | 0.29 | 0.28 | 0.24 | 0.18 | 0.16 | 0.21 | 0.49 | 0.23 |
| Nitrate-N(mg/L) | 00620 | 2.68 | 0.84 | 1.16 | 1.2 | 0.98 | 0.98 | 1.33 | 1.7 | 2.03 | 2.38 | 5.62 | <0.05 |
| Chloride(mg/L) | 00940 | 69.6 | 20.6 | 26.8 | 40.7 | 51.6 | 41.2 | 37.9 | 81.7 | 62.1 | 56.4 | 62.7 | 74.9 |
| Sulfate(mg/L) | 00945 | 59.6 | 18.5 | 30.3 | 41.4 | 45.2 | 52.6 | 48.8 | 96 | 63.4 | 54 | 61.1 | 68.6 |
| Total Hardness(mg/L) | 00900 | 280 | 212 | 209 | 244 | 222 | 224 | 287 | 312 | 304 | 331 | 293 | 343 |
| Ammonia-N(mg/L) | 00610 | | 0.03 | | 0.04 | | 0.07 | | <0.10 | | 0.11 | | 0.12 |
| Chlorophyll a (mg/m ³) | 32211 | 6.5 | <1 | 4.3 | 5.5 | 5.2 | 2.7 | 1.6 | 4.5 | 4.9 | 4.2 | 4.8 | 9.1 |
| Pheophytin (mg/m ³) | 32218 | 1.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.1 | 1.1 | 1.7 | 5.2 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | | | | | | | | <0.5 | | <0.5 | | 0.59 |
| Flow | 00061 | 1030 | 3140 | 2840 | 2890 | 3120 | 3120 | 3020 | 2800 | 2530 | 2400 | 1880 | 1760 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------------|--------------|-------------|--------------|-------------|-------------|--------------|--------------|---------------|---------------|-------------|-------------|
| | Parameter Code | 3/17/08 1217 | 4/11/08 1031 | 5/5/08 1145 | 6/12/08 1150 | 7/1/08 1148 | 8/4/08 1256 | 9/10/08 1204 | 10/8/08 1148 | 11/10/08 1154 | 12/10/08 1110 | 1/6/09 1101 | 2/3/09 1150 |
| E. coli(org/100mL) | 31699 | 190 | 100 | 110 | 20 | 93 | 52 | 42 | 60 | 1030 | 81 | 84 | 55 |
| Suspended Solids(mg/L) | 00530 | 85.5 | 51.3 | 62.7 | 68 | 47.3 | 16 | 41.7 | 18.7 | 61.7 | 35 | 35 | 36.3 |
| Turbidity(NTU) | 82079 | 37.6 | 40.6 | 44.3 | 47.1 | 37.2 | 25.5 | 37.9 | 25.1 | 45.2 | 28.8 | 30.4 | 26.5 |
| pH | 00400 | 7.9 | 7.92 | 7.9 | 8 | 8 | 8.1 | 8.1 | 8.1 | 8 | 8 | 8.1 | 8.1 |
| Temperature(C) | 00010 | 20.3 | 25.1 | 24.7 | 30.4 | 30.9 | 31.3 | 30.1 | 24.9 | 19.9 | 14.3 | 16.1 | 13.6 |
| Dissolved Oxygen(mg/L) | 00300 | 8.2 | 6.4 | 6 | 6.3 | 6.3 | 6.7 | 6.5 | 7.4 | 7.9 | 9.3 | 8.9 | 10.8 |
| Conductivity(umhos/cm) | 00094 | 803 | 814 | 837 | 811 | 832 | 675 | 708 | 784 | 838 | 907 | 918 | 903 |
| Total Phosphorus(mg/L) | 00665 | 0.39 | 0.44 | 0.37 | 0.26 | 0.2 | 0.24 | 0.31 | 0.34 | 0.46 | 0.47 | 0.48 | 0.57 |
| Nitrate-N(mg/L) | 00620 | 2.47 | 1.92 | 1.7 | 1.87 | 0.86 | 1.31 | 3.22 | 2.42 | 4.4 | 4.34 | 4.46 | 4.17 |
| Chloride(mg/L) | 00940 | 76.4 | 75.5 | 82.5 | 75.8 | 28.6 | 61.5 | 163 | 74.2 | 89.5 | 89 | 86.3 | 86 |
| Sulfate(mg/L) | 00945 | 68.4 | 68 | 72.9 | 69.9 | 32.5 | 58.8 | 139 | 67.8 | 74.9 | 72.8 | 70.5 | 69.2 |
| Total Hardness(mg/L) | 00900 | 291 | 300 | 307 | 288 | 233 | 230 | 249 | 298 | 288 | 306 | 325 | 307 |
| Ammonia-N(mg/L) | 00610 | | 0.11 | | 0.12 | | 0.14 | | <0.1 | | 0.13 | | 0.14 |
| Chlorophyll a (mg/m ³) | 32211 | 31.3 | 7.6 | 6 | 13.7 | 8.9 | 5.2 | 6.1 | 3.9 | 4.6 | 1.1 | 3.7 | 2.7 |
| Pheophytin (mg/m ³) | 32218 | 5.7 | 6.5 | 3.7 | 6.5 | 1.1 | 4 | 2 | 1.4 | 1.9 | <1 | <1 | <1 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | | 0.45 | | 0.68 | | 0.51 | | 0.51 | | 0.45 | | 0.4 |
| Flow (cfs) | 00061 | 1890 | 1410 | 1240 | 805 | 581 | 777 | 918 | 658 | 720 | 713 | | |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------------|--------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|-------------|
| | Parameter Code | 3/11/09 1155 | 4/13/09 1145 | 5/6/09 1111 | 6/2/09 1134 | 7/08/09 1145 | 8/11/09 1210 | 9/09/09 1351 | 10/12/09 1132 | 11/10/09 1244 | 12/07/09 1132 | 1/13/10 1119 | 2/9/10 1146 |
| E. coli(org/100mL) | 31699 | 51 | 79 | 88 | 140 | 1150 | 75 | 68 | 210 | 60 | 550 | 16 | 720 |
| Suspended Solids(mg/L) | 00530 | 48.3 | 49 | 72 | 73.5 | 20.7 | 19.5 | 26.7 | 203 | 36.7 | 107 | 16.7 | 257 |
| Turbidity(NTU) | 82079 | 27.7 | 38.3 | 59.7 | 91.5 | 23.2 | 20.5 | 25.3 | 208 | 31.6 | 118 | 13.9 | 193 |
| pH | 00400 | 8.1 | 8 | 7.5 | 8 | 8 | 8.1 | 7.9 | 7.6 | 7.8 | 7.9 | 7.6 | 7.8 |
| Temperature(C) | 00010 | 23.6 | 22.5 | 26.5 | 28.2 | 31.4 | 31.3 | 29.3 | 22.1 | 21.2 | 12 | 9.5 | 12.6 |
| Dissolved Oxygen(mg/L) | 00300 | 8.9 | 8.8 | 5 | 8.1 | 4.4 | 4.6 | 4.6 | 5.8 | 8.3 | 10.9 | 12.7 | 11.6 |
| Conductivity(umhos/cm) | 00094 | 846 | 974 | 507 | 546 | 1030 | 1060 | 982 | 359 | 594 | 508 | 778 | 258 |
| Total Phosphorus(mg/L) | 00665 | 0.37 | 0.62 | 0.49 | 0.44 | 0.33 | 0.47 | 0.45 | 0.4 | 0.28 | 0.36 | 0.23 | 0.46 |
| Nitrate-N(mg/L) | 00620 | 2.63 | 4.16 | 1.55 | 2.11 | 0.43 | 1.65 | 2.12 | 0.68 | 1.6 | 1.84 | 2.29 | 1.06 |
| Chloride(mg/L) | 00940 | 87.1 | 109 | 48.1 | 47.8 | 108 | 116 | 105 | 19.1 | 40.9 | 41.7 | 68.1 | 30.5 |
| Sulfate(mg/L) | 00945 | 66.8 | 88.7 | 36.6 | 33.8 | 83.4 | 90.9 | 77.6 | 28.5 | 41.8 | 49.8 | 63.5 | 32.6 |
| Total Hardness(mg/L) | 00900 | 278 | 310 | 177 | 214 | 281 | 281 | 259 | 184 | 245 | 212 | 318 | 210 |
| Ammonia-N(mg/L) | 00610 | | 0.11 | | <0.1 | | 0.11 | | <0.1 | | 0.13 | | <0.1 |
| Chlorophyll a (mg/m ³) | 32211 | 5.1 | 4.5 | 3.2 | 3 | 4.9 | 15.7 | 8.4 | <1 | 2.6 | <1 | 4.7 | 1.7 |
| Pheophytin (mg/m ³) | 32218 | 1.4 | 1.9 | <1 | <1 | 2.2 | 3 | 3.3 | <1 | <1 | <1 | <1 | <1 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | | 0.52 | | 0.65 | | 0.8 | | 0.88 | | 0.94 | | 1.11 |
| Flow | 00061 | 575 | 575 | 1210 | 827 | 283 | 335 | 356 | 3370 | 2210 | 3030 | 1640 | 3140 |

TABLE 7 (Con't)

TCEO Segment 1803
 TCEO Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------|---------|--------|---------|---------|--------|---------|---------|----------|---------|--------|--------|
| | Parameter Code | 3/3/10 | 4/20/10 | 5/5/10 | 6/15/10 | 7/12/10 | 8/4/10 | 9/14/10 | 10/6/10 | 11/18/10 | 12/1/10 | 1/3/11 | 2/9/11 |
| E. coli(org/100mL) | 31699 | 63 | 440 | 27 | 210 | 91 | 120 | 240 | 19 | 49 | 43 | 100 | 140 |
| Suspended Solids(mg/L) | 00530 | 57.3 | 107 | 56 | 107 | 54.7 | 60.3 | 212 | 50.2 | 56 | 29 | 21.6 | 36.3 |
| Turbidity(NTU) | 82079 | 14.5 | 77.7 | 50.6 | 128 | 34.5 | 44.2 | 162 | 38.6 | 38.9 | 16.4 | 16 | 19.7 |
| pH | 00400 | 7.9 | 7.8 | 7.9 | 7.6 | 7.5 | 7.9 | 7.6 | 8 | 8 | 8.1 | 8 | 8 |
| Temperature(C) | 00010 | 15.2 | 21.4 | 25.3 | 29.1 | 29.8 | 31.1 | 28.9 | 22.6 | 17.2 | 16.1 | 14.4 | 11.7 |
| Dissolved Oxygen(mg/L) | 00300 | 11.1 | 7.1 | 7.6 | 4.7 | 6.6 | 8.2 | 4 | 7.1 | 8.3 | 8.7 | 8.9 | 10.2 |
| Conductivity(umhos/cm) | 00094 | 722 | 550 | 678 | 418 | 417 | 714 | 362 | 664 | 780 | 808 | 824 | 824 |
| Total Phosphorus(mg/L) | 00665 | 0.22 | 0.27 | 0.19 | 0.29 | 0.23 | 0.22 | 0.42 | 0.14 | 0.29 | 0.3 | 0.32 | 0.27 |
| Nitrate-N(mg/L) | 00620 | 2.08 | 1.24 | 1.35 | 0.83 | 0.56 | 2.17 | 0.58 | 1.41 | 2.91 | 3.52 | 3.87 | 3.54 |
| Chloride(mg/L) | 00940 | 50.3 | 47.3 | 52.3 | 26.3 | 32.6 | 73.6 | 24.6 | 54 | 64.7 | 71.6 | 75.5 | 81 |
| Sulfate(mg/L) | 00945 | 48 | 38.6 | 51.2 | 26.4 | 23.6 | 58.2 | 26.1 | 44.6 | 53.8 | 58 | 61.6 | 67.2 |
| Total Hardness(mg/L) | 00900 | 288 | 246 | 264 | 172 | 158 | 266 | 189 | 274 | 318 | 309 | 289 | 295 |
| Ammonia-N(mg/L) | 00610 | | 0.13 | | 0.13 | | 0.19 | | 0.16 | | 0.11 | | 0.13 |
| Chlorophyll a (mg/m ³) | 32211 | 10.8 | 5.5 | 6.4 | 1.1 | 1.1 | 2.5 | 1.8 | 4.3 | < | 4.5 | 2.5 | 9.1 |
| Pheophytin (mg/m ³) | 32218 | 1.3 | 1.4 | 3.1 | <1 | 2.3 | 3.1 | <1 | <1 | 3.6 | <1 | <1 | <1 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | | 0.79 | | 0.68 | | 0.7 | | 0.47 | | 0.41 | | 0.44 |
| Flow | 00061 | 2370 | 3200 | 2680 | 3070 | 3130 | 1820 | | | 1260 | 1210 | 1250 | 1110 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------|--------|---------|--------|---------|--------|---------|----------|---------|---------|----------|----------|
| | Parameter Code | 3/2/11 | 4/4/11 | 5/24/11 | 6/6/11 | 7/11/11 | 8/2/11 | 9/14/11 | 10/17/11 | 11/8/11 | 12/8/11 | 1/4/2012 | 2/9/2012 |
| E. coli(org/100mL) | 31699 | 47 | 45 | 27 | 21 | 30 | 14 | 24 | 440 | 91 | 39 | 150 | 2910 |
| Suspended Solids(mg/L) | 00530 | 65.7 | 54.8 | 37 | 26.8 | 27.5 | 16.5 | 20.3 | 79.6 | 25.9 | 25.2 | 25.5 | 380 |
| Turbidity(NTU) | 82079 | 38.5 | 20.3 | 28.6 | 17.8 | 19.7 | 15.1 | 12.7 | 74.1 | 17.7 | 16.5 | 15 | 320 |
| pH | 00400 | 8.1 | 8.1 | 7.8 | 7.8 | 8 | 7.9 | 8 | 7.6 | 8 | 7.9 | 7.9 | 7.7 |
| Temperature(C) | 00010 | 20.1 | 24.4 | 28.2 | 30.3 | 31.1 | 32.2 | 29 | 24.1 | 19.8 | 12.8 | 13.3 | 14.5 |
| Dissolved Oxygen(mg/L) | 00300 | 8.1 | 7 | 5.4 | 4.6 | 4.2 | 4.9 | 8 | 6.9 | 7.8 | 9.6 | 9.1 | 6.9 |
| Conductivity(umhos/cm) | 00094 | 826 | 834 | 773 | 790 | 860 | 874 | 974 | 565 | 939 | 793 | 797 | 541 |
| Total Phosphorus(mg/L) | 00665 | 0.28 | 0.24 | 0.27 | 0.13 | 0.2 | 0.16 | 0.23 | 0.24 | 0.25 | 0.34 | 0.34 | 0.55 |
| Nitrate-N(mg/L) | 00620 | 3.03 | 2.4 | 2.2 | 0.53 | 0.87 | 0.5 | 0.4 | 1.61 | 4.3 | 3.78 | 2.96 | 2.33 |
| Chloride(mg/L) | 00940 | 84 | 81.5 | 79.9 | 91.2 | 89.2 | 101 | 108 | 47.5 | 108 | 69.7 | 69.7 | 46.3 |
| Sulfate(mg/L) | 00945 | 67.9 | 63 | 63.8 | 69.6 | 64.4 | 84.4 | 79.3 | 40.9 | 76.1 | 55.1 | 55.9 | 45.2 |
| Total Hardness(mg/L) | 00900 | 292 | 303 | 262 | 232 | 234 | 238 | 253 | 193 | 272 | 250 | 254 | 290 |
| Ammonia-N(mg/L) | 00610 | | 0.18 | | 0.27 | | <0.1 | 0.11 | | 0.16 | | 0.31 | |
| Chlorophyll a (mg/m ³) | 32211 | 6.7 | 20.7 | 5 | 7.9 | 9.7 | 18 | 28.5 | 2.6 | 10.4 | 2.8 | 1.9 | 1.7 |
| Pheophytin (mg/m ³) | 32218 | 3.2 | 9.9 | 1.3 | 2.8 | 2.5 | 4.3 | <1 | 1.72 | <1 | <1 | <1.0 | <1.0 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | | 0.61 | | 2.98 | | 0.49 | 0.83 | 0.66 | 0.63 | 0.67 | 0.75 | 1.04 |
| Flow (cfs) | 00061 | 1090 | 973 | 546 | 473 | 356 | 331 | 198 | 722 | 395 | 661 | 718 | 3260 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------|---------|--------|---------|---------|---------|--------|----------|----------|----------|--------|---------|
| | Parameter Code | 3/7/12 | 4/11/12 | 5/3/12 | 6/12/12 | 7/12/12 | 8/15/12 | 9/6/12 | 10/15/12 | 11/13/12 | 12/19/12 | 1/9/13 | 2/11/13 |
| E. coli(org/100mL) | 31699 | 78 | 41 | 23 | 35 | 63 | 24 | 66 | 89 | 53 | 37 | 560 | 115 |
| Suspended Solids(mg/L) | 00530 | 53.6 | 98.3 | 37.8 | 49.2 | 124 | 33.3 | 30.5 | 38.4 | 24.2 | 22.6 | 20.4 | 33.4 |
| Turbidity(NTU) | 82079 | 36.3 | 69.7 | 24.5 | 35.2 | 69.3 | 25.5 | 22.6 | 27.5 | 18.1 | 17 | 15.1 | 25.8 |
| pH | 00400 | 8 | 7.7 | 7.9 | 8 | 7.6 | 7.8 | 8 | 7.9 | 8 | 8.2 | 8.4 | 1.9 |
| Temperature(C) | 00010 | 19.8 | 25.1 | 27.8 | 30.4 | 27.9 | 31.7 | 30.2 | 24.6 | 20.6 | 19.2 | 13 | 18.2 |
| Dissolved Oxygen(mg/L) | 00300 | 7.8 | 6 | 6 | 5.4 | 5.7 | 6.9 | 5.5 | 6.2 | 7.3 | 7.7 | 9.6 | 7.3 |
| Conductivity(umhos/cm) | 00094 | 710 | 666 | 803 | 700 | 650 | 735 | 718 | 647 | 860 | 870 | 847 | 801 |
| Total Phosphorus(mg/L) | 00665 | 0.28 | 0.32 | 0.28 | 0.18 | 0.2 | 0.18 | 0.21 | 0.31 | 0.47 | 0.45 | 0.52 | 0.44 |
| Nitrate-N(mg/L) | 00620 | 3.3 | 1.99 | 2.62 | 1.39 | 0.65 | 1.02 | 1.82 | 2.5 | 6.56 | 4.36 | 5 | 3.92 |
| Chloride(mg/L) | 00940 | 53.6 | 72.5 | 58.3 | 62.5 | 71.9 | 68.3 | 59.7 | 86.6 | 86.2 | 87.3 | 82.2 | |
| Sulfate(mg/L) | 00945 | 48.4 | 62.2 | 49.3 | 53 | 54.7 | 55.4 | 48.1 | 65.8 | 69.7 | 66.7 | 64.9 | |
| Total Hardness(mg/L) | 00900 | 261 | 278 | 262 | 240 | 274 | 228 | 230 | 220 | 261 | 281 | 278 | 238 |
| Ammonia-N(mg/L) | 00610 | 0.33 | | 0.28 | | 0.31 | | 0.16 | | 0.2 | | 0.14 | |
| Chlorophyll a (mg/m ³) | 32211 | 8.9 | 12 | 5.3 | 5.7 | 2.3 | 5.7 | 3.96 | <1 | <1 | <1 | 1.87 | <1 |
| Pheophytin (mg/m ³) | 32218 | <1 | 2.4 | 4.3 | 4.4 | 1.7 | 2.7 | 7.41 | 7.36 | 2.94 | 5.4 | 1.68 | 6.84 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | 0.72 | 0.99 | 0.63 | 0.79 | 0.71 | 0.42 | 0.71 | 0.53 | <0.2 | <0.2 | <0.2 | 0.59 |
| Flow | 00061 | 1350 | 1530 | 882 | 841 | 1220 | 406 | 443 | 834 | 641 | 549 | 666 | 613 |

TABLE 7 (Con't)

TCEO Segment 1803
 TCEO Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|---------|---------|---------|--------|----------|--------|---------|---------|----------|---------|---------|--------|
| | Parameter Code | 3/18/13 | 4/15/13 | 5/15/13 | 6/4/13 | 7/8/2013 | 8/8/13 | 9/11/13 | 10/7/13 | 11/13/13 | 12/3/13 | 1/16/14 | 2/6/14 |
| E. coli(org/100mL) | 31699 | 71 | 82 | 86 | 200 | 38 | 27 | 190 | 140 | 120 | 50 | 51 | 56 |
| Suspended Solids(mg/L) | 00530 | 23.2 | 50.7 | 45.2 | 66 | 29.1 | 25.2 | 27.2 | 95.1 | 104 | 27.6 | 15.6 | 18.4 |
| Turbidity(NTU) | 82079 | 17 | 44 | 36.4 | 57.8 | 24.8 | 22.8 | 26.2 | 83.8 | 94.4 | 21.6 | 11.1 | 14.5 |
| pH | 00400 | 7.9 | 7.9 | 7.9 | 7.7 | 7.8 | 8.3 | 7.9 | 8 | 8.1 | 8.1 | 8.3 | 8.1 |
| Temperature(C) | 00010 | 21.9 | 22.7 | 25.8 | 28.3 | 29.2 | 32 | 29.3 | 25 | 17.7 | 15.1 | 13.5 | 12.9 |
| Dissolved Oxygen(mg/L) | 00300 | 7.5 | 5.9 | 5.8 | 2.6 | 8.7 | 6.4 | 6.8 | 6.9 | 7.3 | 8.9 | 10.8 | 10.0 |
| Conductivity(umhos/cm) | 00094 | 905 | 637 | 708 | 436 | 877 | 945 | 1070 | 485 | 432 | 721 | 830 | 1550 |
| Total Phosphorus(mg/L) | 00665 | 0.47 | 0.32 | 0.37 | 0.4 | 0.2 | 0.25 | 0.34 | 0.37 | 0.25 | 0.4 | 0.67 | 0.44 |
| Nitrate-N(mg/L) | 00620 | 5.36 | 2.14 | 2.36 | 0.54 | 1.59 | 2.18 | 2.83 | 2.56 | 1.35 | 5.16 | 3.96 | 2.98 |
| Chloride(mg/L) | 00940 | 97.5 | 62.4 | 67.7 | 26.4 | 99.1 | 91.5 | 129 | 45.5 | 25.5 | 65.7 | 91.2 | 80.5 |
| Sulfate(mg/L) | 00945 | 73.8 | 50.3 | 50.8 | 27.4 | 83.2 | 68.5 | 96.7 | 34.9 | 26.8 | 48.5 | 65.9 | 61.3 |
| Total Hardness(mg/L) | 00900 | 272 | 210 | 237 | 178 | 270 | 242 | 262 | 174 | 292 | 246 | 267 | 265 |
| Ammonia-N(mg/L) | 00610 | 0.22 | | 0.32 | | 0.13 | | 0.33 | | <0.1 | | <0.10 | |
| Chlorophyll a (mg/m ³) | 32211 | 4.9 | 2.4 | 4.27 | 2.49 | 6.27 | 7.52 | 2.14 | 1.6 | 2.8 | 2.09 | 8.69 | 7.24 |
| Pheophytin (mg/m ³) | 32218 | 2.6 | 1.71 | 1.71 | <1 | 4.75 | 2.79 | 1.91 | <1 | <1 | <1.0 | 2.21 | 2.17 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | <0.2 | 0.85 | 0.73 | 0.84 | 0.58 | <0.2 | 0.64 | | 0.73 | | 0.43 | |
| Flow | 00061 | 614 | 619 | 685 | 2820 | 505 | 1060 | 326 | 1250 | 2200 | 1130 | 742 | |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|---------|---------|--------|---------|--------|-----------|--------|---------|----------|---------|--------|--------|
| | Parameter Code | 3/12/14 | 4/14/14 | 5/7/14 | 6/12/14 | 7/7/14 | 8/11/2014 | 9/4/14 | 10/8/14 | 11/12/14 | 12/3/14 | 1/7/15 | 2/4/15 |
| E. coli(org/100mL) | 31699 | 86 | 83 | 30 | 23 | 49 | 24 | 59 | 33 | 1100 | 110 | 25 | 230 |
| Suspended Solids(mg/L) | 00530 | 37.8 | 43.5 | 12.6 | 35.2 | 40.3 | 18 | 20.0 | 23.6 | 221 | 30.2 | 12.8 | 44.0 |
| Turbidity(NTU) | 82079 | 24.2 | 31.7 | 19.3 | 40.1 | 39.1 | 21.3 | 20.1 | 19.2 | 204 | 32.8 | 11.1 | 37.5 |
| pH | 00400 | 8.2 | 8.2 | 8.1 | 8.3 | 7.5 | 7.8 | 8.5 | 7.9 | 8.0 | 7.6 | 8.2 | 7.9 |
| Temperature(C) | 00010 | 16.2 | 23.3 | 24.1 | 30.7 | 29.9 | 31.5 | 30.0 | 27.1 | 16.8 | 16.1 | 11.3 | 13.7 |
| Dissolved Oxygen(mg/L) | 00300 | 8.6 | 4.2 | 6.2 | 5.4 | 4.9 | 4.3 | 5.7 | 5.4 | 7.9 | 7.6 | 10.1 | 8.8 |
| Conductivity(umhos/cm) | 00094 | 824 | 876 | 908 | 707 | 604 | 818 | 1030 | 840 | 417 | 582 | 840 | 585 |
| Total Phosphorus(mg/L) | 00665 | 0.40 | 0.36 | 0.66 | 0.36 | 0.34 | 0.29 | 0.52 | 0.86 | 0.28 | 0.35 | 0.84 | 0.37 |
| Nitrate-N(mg/L) | 00620 | --- | 2.94 | 3.52 | 1.79 | 1.18 | 2.06 | 1.32 | 5.60 | 1.49 | 1.8 | 4.80 | 2.03 |
| Chloride(mg/L) | 00940 | 83.4 | 90.7 | 98.8 | 60.6 | 55.3 | 87.3 | 110 | 90.5 | 36.4 | 53.0 | 93.4 | 51.0 |
| Sulfate(mg/L) | 00945 | 64.8 | 72.8 | 72.9 | 45.5 | 38.4 | 67.1 | 75.2 | 56.9 | 30.3 | 43.0 | 62.2 | 46.5 |
| Total Hardness(mg/L) | 00900 | 259 | 264 | 258 | 208 | 194 | 232 | 236 | 210 | 206 | 207 | 285 | 214 |
| Ammonia-N(mg/L) | 00610 | 0.88 | | 0.29 | | 0.34 | | 0.28 | | 0.30 | | 0.25 | |
| Chlorophyll a (mg/m ³) | 32211 | --- | 2.58 | 5.30 | 8.84 | 2.97 | 3.07 | 2.91 | 1.78 | 4.09 | <1.0 | 2.08 | 2.50 |
| Pheophytin (mg/m ³) | 32218 | --- | <1.0 | 1.40 | 2.04 | <1.0 | 1.70 | <1.0 | <1.0 | <1.00 | <1.0 | <1.0 | <1.0 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | 0.844 | | 0.821 | | 0.55 | | 0.72 | | 0.73 | | 0.52 | |
| Flow (cfs) | 00061 | 751 | | 351 | | 661 | 228 | 227 | 393 | 1240 | 692 | 472 | |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|---------|--------|---------|---------|--------|--------|---------|---------|----------|---------|--------|--------|
| | Parameter Code | 3/10/15 | 4/7/15 | 5/11/15 | 6/24/15 | 7/8/15 | 8/5/15 | 9/21/15 | 10/5/15 | 11/16/15 | 12/8/15 | 1/6/16 | 2/9/16 |
| E. coli(org/100mL) | 31699 | 3100 | 53 | 8 | 250 | 14 | 20 | 38 | 21 | 99 | 80 | 120 | 52 |
| Suspended Solids(mg/L) | 00530 | 84.4 | 54 | 106 | 196 | 75.0 | 78.9 | 66.3 | 51.3 | 56.0 | 36.5 | 23.5 | 31.9 |
| Turbidity(NTU) | 82079 | 46.9 | 37.4 | 68.0 | 206 | 52.2 | 41.9 | 46.7 | 38.5 | 57.7 | 32.0 | 24.9 | 19.5 |
| pH | 00400 | 8.3 | 7.8 | 7.8 | 7.7 | 7.9 | 8.0 | 8.0 | 8.2 | 7.8 | 8.2 | 8.2 | 8.4 |
| Temperature(C) | 00010 | 14.8 | 23.2 | 26.7 | 28.4 | 29.1 | 31.1 | 29.1 | 26.0 | 20.7 | 15.9 | 13.0 | 13.9 |
| Dissolved Oxygen(mg/L) | 00300 | 9.1 | 6.2 | 5.4 | 6.7 | 5.7 | 6.3 | 6.4 | 7.4 | 6.7 | 9.9 | 10.0 | 11.1 |
| Conductivity(umhos/cm) | 00094 | 831 | 74 | 586 | 381 | 625 | 692 | 666 | 760 | 556 | 611 | 665 | 730 |
| Total Phosphorus(mg/L) | 00665 | 0.46 | 0.50 | 0.40 | 0.16 | 0.26 | 0.20 | 0.30 | 0.32 | 0.25 | 0.19 | 0.31 | 0.28 |
| Nitrate-N(mg/L) | 00620 | 2.51 | 2.96 | 1.83 | 1.22 | 1.82 | 1.14 | 1.70 | 2.30 | 1.72 | 1.49 | 2.03 | 3.08 |
| Chloride(mg/L) | 00940 | 64.8 | 68.0 | 47.1 | 26.5 | 48.8 | 47.7 | 57.7 | 70.6 | 38.1 | 43.3 | 53.9 | 74.8 |
| Sulfate(mg/L) | 00945 | 48.9 | 54.1 | 37.7 | 29.4 | 45.5 | 38.2 | 60.7 | 51.4 | 34.7 | 39.6 | 44.6 | 60.1 |
| Total Hardness(mg/L) | 00900 | 221 | 234 | 251 | 205 | 257 | 275 | 244 | 261 | 265 | 247 | 258 | 280 |
| Ammonia-N(mg/L) | 00610 | 0.16 | | <0.10 | <0.10 | <0.10 | | <0.10 | | <0.10 | | <0.10 | |
| Chlorophyll a (mg/m ³) | 32211 | 2.80 | 5.74 | 12.4 | 1.34 | 9.79 | 17.4 | 12.6 | 17.2 | 1.42 | <1.00 | 3.43 | 9.67 |
| Pheophytin (mg/m ³) | 32218 | <1.0 | 2.51 | 5.07 | <1.00 | <1.0 | 14.0 | 4.61 | 3.88 | <1.00 | 7.39 | <1.00 | <1.0 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | 0.89 | | 0.70 | 1.03 | 0.70 | | 0.96 | | 0.54 | | 0.63 | |
| Flow | 00061 | | 1290 | 1680 | 3200 | 2440 | 1340 | 969 | 819 | 2310 | 2130 | 2190 | 1290 |

TABLE 7 (Con't)

TCEQ Segment 1803
 TCEQ Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|--------|---------|--------|--------|---------|--------|--------|---------|----------|----------|---------|---------|
| | Parameter Code | 3/2/16 | 4/11/16 | 5/4/16 | 6/9/16 | 7/13/16 | 8/9/16 | 9/6/16 | 10/5/16 | 11/17/16 | 12/15/16 | 1/10/17 | 2/27/17 |
| E. coli(org/100mL) | 31699 | 440 | 39 | 120 | 200 | 17 | 13 | 86 | 150 | 120 | 400 | 50 | 490 |
| Suspended Solids(mg/L) | 00530 | 60.3 | 3.90 | 65.0 | 144 | 56.6 | 64.0 | 74.7 | 99.3 | 79.0 | 136 | 48.8 | 130 |
| Turbidity(NTU) | 82079 | 51.1 | 41.4 | 54.7 | 205 | 44.7 | 52.7 | 70.3 | 94.1 | 58.8 | 135 | 30 | 180 |
| pH | 00400 | 8.4 | 7.9 | 7.9 | 7.5 | 7.9 | 7.8 | 7.7 | 7.6 | 7.9 | 8.2 | 7.9 | 7.7 |
| Temperature(C) | 00010 | 19.9 | 22.4 | 24.0 | 26.4 | 29.7 | 31.0 | 29.6 | 26.0 | 21.6 | 15.5 | 14.8 | 20 |
| Dissolved Oxygen(mg/L) | 00300 | 8.7 | 7.8 | 7.1 | 10.7 | 6.4 | 6.4 | 6.9 | 6.5 | 8.1 | 10.2 | 10.1 | 8.1 |
| Conductivity(umhos/cm) | 00094 | 857 | 775 | 617 | 338 | 656 | 633 | 670 | 501 | 627 | 549 | 779 | 521 |
| Total Phosphorus(mg/L) | 00665 | 0.34 | 0.32 | 0.34 | 0.43 | 0.20 | 0.18 | 0.3 | 0.29 | 0.30 | 0.40 | 0.27 | 0.44 |
| Nitrate-N(mg/L) | 00620 | 2.07 | 3.72 | 2.79 | 0.49 | 1.41 | 1.30 | 1.23 | 0.22 | 2.18 | 1.68 | 3.00 | 1.69 |
| Chloride(mg/L) | 00940 | 65.2 | 67.1 | 44.6 | 16.7 | 48.3 | 46.1 | 48.5 | 36.8 | 45.6 | 43.0 | 53.6 | 39.5 |
| Sulfate(mg/L) | 00945 | 50.6 | 54.0 | 40.8 | 21.2 | 44.7 | 42.8 | 45.1 | 36.4 | 44.6 | 47.2 | 51.3 | 39.7 |
| Total Hardness(mg/L) | 00900 | 208 | 296 | 246 | 169 | 263 | 266 | 264 | 205 | 254 | 235 | 306 | 252 |
| Ammonia-N(mg/L) | 00610 | 0.11 | | <0.10 | | <0.10 | | <0.10 | | <0.10 | | <0.10 | |
| Chlorophyll a (mg/m ³) | 32211 | 4.58 | 12.6 | 26.9 | 3.03 | 3.53 | 10.1 | 11.7 | 7.48 | 3.56 | 3.74 | 4.75 | 6.68 |
| Pheophytin (mg/m ³) | 32218 | <1.0 | 1.73 | <1.0 | <1.0 | <1.0 | <1.0 | 1.52 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | 1.07 | | 0.68 | | 0.26 | | 0.72 | | 0.47 | | 0.28 | |
| Flow | 00061 | 2020 | 1340 | 2430 | | 2190 | 1490 | 2390 | 2480 | 1930 | 2630 | 1800 | 2840 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Parameter Code | 3/16/17 | 4/18/17 | 5/11/17 | 6/8/17 | 7/19/17 | 8/17/17 | 9/19/17 | 10/4/17 | 11/2/17 | 12/5/17 | 1/18/18 | 2/19/18 |
| E. coli(org/100mL) | 31699 | 830 | 310 | 19 | 75 | 16 | 68 | 12 | 120 | 42 | 49 | 24 | 28 |
| Suspended Solids(mg/L) | 00530 | 115 | 89.0 | 49.0 | 114 | 42.3 | 101 | 29.9 | 118 | 61.3 | 35.9 | 22.7 | 80 |
| Turbidity(NTU) | 82079 | 177 | 177 | 44.1 | 84.6 | 53.8 | 80.8 | 20.4 | 84.3 | 28.6 | 19.1 | 11.2 | 23.8 |
| pH | 00400 | 7.6 | 7.7 | 8.1 | 8.0 | 8.0 | 8.1 | 7.8 | 7.8 | 8.0 | 8.1 | 8.4 | 8.1 |
| Temperature(C) | 00010 | 19.7 | 23.5 | 25.6 | 28.3 | 31.1 | 30.8 | 28.8 | 27.7 | 20.2 | 20.8 | 9.1 | 19.9 |
| Dissolved Oxygen(mg/L) | 00300 | 7.6 | 6.9 | 8.4 | 6.5 | 6.2 | 5.7 | 8.0 | 5.4 | 8.2 | 8.0 | 11.3 | 8.3 |
| Conductivity(umhos/cm) | 00094 | 231 | 575 | 646 | 610 | 744 | 682 | 673 | 704 | 845 | 829 | 834 | 855 |
| Total Phosphorus(mg/L) | 00665 | 0.49 | 0.41 | 0.17 | 0.27 | 0.21 | 0.30 | 0.30 | 0.37 | 0.38 | 0.47 | 0.45 | 0.49 |
| Nitrate-N(mg/L) | 00620 | 1.74 | 2.56 | 1.66 | 1.89 | 2.27 | 1.54 | 1.12 | 1.98 | 3.45 | 4.05 | 4.04 | 5.56 |
| Chloride(mg/L) | 00940 | 33.0 | 42.1 | 63.0 | 49.2 | 73.0 | 59.4 | 52.5 | 63.3 | 76.2 | 73.6 | 76.3 | 88.4 |
| Sulfate(mg/L) | 00945 | 29.8 | 39.4 | 55.7 | 46.4 | 57.7 | 51.9 | 39.3 | 46.9 | 60.0 | 56.4 | 63.1 | 69.1 |
| Total Hardness(mg/L) | 00900 | 190 | 252 | 265 | 250 | 259 | 246 | 254 | 257 | 311 | 297 | 303 | 299 |
| Ammonia-N(mg/L) | 00610 | <0.10 | | <0.10 | | <0.10 | | <0.10 | | <0.10 | | <0.10 | |
| Chlorophyll a (mg/m ³) | 32211 | 5.87 | 6.04 | 15.2 | 11.7 | 20.0 | 2.67 | 20.3 | 10.6 | 13.1 | 5.23 | 13.9 | 8.74 |
| Pheophytin (mg/m ³) | 32218 | <1.00 | 1.03 | 2.97 | 6.10 | 4.34 | 8.92 | 4.28 | 1.37 | 1.95 | 1.72 | <1.00 | 1.32 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | 1.77 | | 0.70 | | 0.83 | | 0.78 | | 0.67 | | 0.39 | |
| Flow | 00061 | 2950 | 2790 | 1550 | 1860 | 982 | 1390 | 2310 | 2600 | 1390 | 1220 | 1410 | 1180 |

| Parameter | Date and 24 hour time | | | | | | | | | | | | |
|------------------------------------|-----------------------|---------|---------|---------|--------|--------|--------|---------|----------|---------|---------|---------|--------|
| | Parameter Code | 3/12/18 | 4/17/18 | 5/17/18 | 6/4/18 | 7/2/18 | 8/2/18 | 9/18/18 | 10/10/18 | 11/1/18 | 12/6/18 | 1/10/19 | 2/6/19 |
| E. coli(org/100mL) | 31699 | 34 | 38 | 20 | 20 | 8 | <10 | 220 | 740 | 150 | 52 | 260 | 65 |
| Suspended Solids(mg/L) | 00530 | 57.4 | 85.3 | 57.8 | 49.6 | 40.6 | 26 | 84 | 157 | 36.0 | 32 | 95.3 | 24.1 |
| Turbidity(NTU) | 82079 | 31.7 | 47.2 | 45.5 | 26.8 | 22.2 | 21.4 | 112 | 136 | 67.9 | 19 | 70 | 39 |
| pH | 00400 | 8.1 | 8 | 8 | 8.0 | 7.8 | 7.9 | 7.7 | 7.7 | 7.7 | 8 | 7.8 | 7.7 |
| Temperature(C) | 00010 | 20.1 | 22.1 | 28.8 | 30.9 | 31.3 | 32.1 | 27.6 | 26.9 | 20.8 | 17.6 | 14.6 | 18.8 |
| Dissolved Oxygen(mg/L) | 00300 | 8.1 | 7.8 | 6.6 | 5.6 | 5.4 | 5.2 | 3.6 | 6.1 | 6.3 | 9.1 | 10.5 | 10.1 |
| Conductivity(umhos/cm) | 00094 | 842 | 751 | 740 | 767 | 765 | 800 | 388 | 454 | 520 | 688 | 543 | 653 |
| Total Phosphorus(mg/L) | 00665 | 0.4 | 0.44 | 0.36 | 0.32 | 0.42 | 0.32 | 0.42 | 0.41 | 0.32 | 0.27 | 0.28 | 0.26 |
| Nitrate-N(mg/L) | 00620 | 3.3 | 2.81 | 2.3 | 1.52 | 2.06 | 1.42 | 0.77 | 1.27 | 1.66 | 2.9 | 2.10 | 2.24 |
| Chloride(mg/L) | 00940 | 82.2 | 70.9 | 76.4 | 80.6 | 82.7 | 89.4 | 25.6 | 32.8 | 36.6 | 55.8 | 19.6 | 24.7 |
| Sulfate(mg/L) | 00945 | 63.6 | 54.8 | 62.7 | 64 | 53.7 | 63.9 | 21.5 | 26.4 | 34.9 | 46 | 27 | 42.6 |
| Total Hardness(mg/L) | 00900 | 299 | 273 | 269 | 256 | 243 | 248 | 153 | 216 | 217 | 278 | 226 | 253 |
| Ammonia-N(mg/L) | 00610 | <0.10 | | <0.10 | | 0.11 | | <0.10 | | <0.10 | | 8 | |
| Chlorophyll a (mg/m ³) | 32211 | 10.8 | 14.1 | 12.4 | 12.9 | 9.3 | 7.98 | 1.87 | 4.7 | 3.14 | 5.76 | 3.03 | 3.09 |
| Pheophytin (mg/m ³) | 32218 | 1.81 | 2.98 | 4.04 | 5.58 | 2.45 | 4.25 | <1.00 | 2.85 | 1.34 | <1.00 | 1.25 | <1.00 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | 0.65 | | 0.46 | | 0.59 | | 0.73 | | 0.64 | | 0.41 | |
| Flow | 00061 | 1130 | 1870 | 1100 | 1050 | 756 | 543 | 3560 | 2700 | 3190 | 2210 | 2940 | 2640 |

TABLE 7 (Con't)

TCEQ Segment 1803
 TCEQ Station 12578
 Station Number 7 Just upstream of Lower Guadalupe River Diversion Dam and Salt Water Barrier
 Latitude 28/30/24 Longitude 96/53/09

Date and 24 hour time

Data after February 2018 is preliminary and subject to change during data review and validation process

| Parameter | Parameter Code | 3/14/19 | 4/24/19 | 5/20/19 | 6/6/19 | 7/2/19 | 8/28/19 | 9/11/19 | 10/7/19 | 11/6/19 | 12/17/19 | 1/30/20 | 3/4/20 |
|------------------------------------|----------------|---------|---------|---------|--------|--------|---------|---------|---------|---------|----------|---------|--------|
| E. coli(org/100mL) | 31699 | 52 | 100 | 120 | 2360 | 77 | 60 | 49 | 55 | 190 | 48 | 61 | 40 |
| Suspended Solids(mg/L) | 00530 | 42 | 56.20 | 63.4 | 40.7 | 120 | 42.0 | 40.5 | 49.4 | 50.7 | 33.7 | 34.3 | 30.2 |
| Turbidity(NTU) | 82079 | 21 | 34 | 50 | 27 | 65 | 32 | 33 | 30 | 33 | 13 | 21 | 12 |
| pH | 00400 | 8.5 | 8.1 | 8.1 | 8 | 7.9 | 8.1 | 8 | 7.9 | 7.7 | 8.3 | 8.3 | 8 |
| Temperature(C) | 00010 | 21.8 | 23.4 | 26.6 | 29.8 | 19.4 | 31.0 | 30.7 | 29.8 | 19.8 | 15.6 | 15.8 | 20.9 |
| Dissolved Oxygen(mg/L) | 00300 | 8.6 | 8.8 | 8.3 | 8.8 | 8.2 | 6 | 6.5 | 6.8 | 8.3 | 9.3 | 9.1 | 8.2 |
| Conductivity(umhos/cm) | 00094 | 707 | 727 | 584 | 580 | 597 | 714 | 717 | 740 | 649 | 801 | 806 | 826 |
| Total Phosphorus(mg/L) | 00665 | 0.25 | 0.356 | 0.354 | 0.284 | 0.34 | 0.26 | 0.263 | 0.369 | 0.35 | 0.54 | 0.644 | 0.456 |
| Nitrate-N(mg/L) | 00620 | 2.22 | 2.7 | 1.73 | 1.27 | 1.78 | 2.32 | 2.41 | 3.32 | 2.91 | 5.33 | 5.18 | 6.04 |
| Chloride(mg/L) | 00940 | 63.7 | 68 | 44.1 | 49.5 | 51 | 73.4 | 71.9 | 73.4 | 61.9 | 84.3 | 81.7 | 89.4 |
| Sulfate(mg/L) | 00945 | 49.4 | 55.7 | 38.4 | 38.6 | 40.4 | 56.2 | 55.1 | 53.1 | 47.9 | 60.6 | 59.8 | 64.4 |
| Total Hardness(mg/L) | 00900 | 280 | 277 | 254 | 230 | 252 | 256 | 262 | 262 | 239 | 288 | 283 | 285 |
| Ammonia-N(mg/L) | 00610 | <0.10 | | <0.10 | | <0.10 | | <0.10 | | <0.10 | | <0.10 | <0.10 |
| Chlorophyll a (mg/m ³) | 32211 | 26.9 | 3.58 | 2.76 | 4.39 | 4.89 | 8.16 | 7.63 | 5.53 | 3.1 | 3.4 | 3.65 | 3.38 |
| Pheophytin (mg/m ³) | 32218 | 4.41 | 1.77 | 1.33 | <1.00 | 2.27 | 3.33 | 2.01 | 3.01 | 1.09 | 1.03 | <1.00 | <1.00 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | 0.51 | | 0.47 | | 0.46 | | 0.52 | | 0.45 | | <0.20 | <0.20 |
| Flow | 00061 | 2130 | 2400 | 2670 | 2360 | 2400 | 816 | 781 | 777 | 1170 | 1300 | 1050 | 868 |

| Parameter | Parameter Code | Date and 24 hour time | | |
|------------------------------------|----------------|-----------------------|--------|--------|
| | | 4/8/20 | 5/7/20 | 6/8/20 |
| E. coli(org/100mL) | 31699 | 1900 | 20 | 51 |
| Suspended Solids(mg/L) | 00530 | 199 | 50.0 | 103.0 |
| Turbidity(NTU) | 82079 | 320 | 23 | 55 |
| pH | 00400 | 7 | 8.2 | 8 |
| Temperature(C) | 00010 | 21.7 | 26.6 | 30.5 |
| Dissolved Oxygen(mg/L) | 00300 | 6.5 | 7.5 | 5.5 |
| Conductivity(umhos/cm) | 00094 | 535 | 770 | 568 |
| Total Phosphorus(mg/L) | 00665 | 0.546 | 0.376 | 0.39 |
| Nitrate-N(mg/L) | 00620 | 2.73 | 3.76 | 2.09 |
| Chloride(mg/L) | 00940 | 51.5 | 83.3 | 51.3 |
| Sulfate(mg/L) | 00945 | 41.6 | 61.8 | 39.6 |
| Total Hardness(mg/L) | 00900 | 270 | 260 | 224 |
| Ammonia-N(mg/L) | 00610 | 51.5 | <0.10 | |
| Chlorophyll a (mg/m ³) | 32211 | 5.87 | 6.14 | 7.41 |
| Pheophytin (mg/m ³) | 32218 | 3.28 | 3.02 | 1.89 |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | | 0.68 | |
| Flow | 00061 | 2940 | 718 | 2060 |

| Parameter | Parameter Code | Date and 24 hour time | | |
|------------------------------------|----------------|-----------------------|--------|--------|
| | | 4/8/20 | 5/7/20 | 6/8/20 |
| E. coli(org/100mL) | 31699 | | | |
| Suspended Solids(mg/L) | 00530 | | | |
| Turbidity(NTU) | 82079 | | | |
| pH | 00400 | | | |
| Temperature(C) | 00010 | | | |
| Dissolved Oxygen(mg/L) | 00300 | | | |
| Conductivity(umhos/cm) | 00094 | | | |
| Total Phosphorus(mg/L) | 00665 | | | |
| Nitrate-N(mg/L) | 00620 | | | |
| Chloride(mg/L) | 00940 | | | |
| Sulfate(mg/L) | 00945 | | | |
| Total Hardness(mg/L) | 00900 | | | |
| Ammonia-N(mg/L) | 00610 | | | |
| Chlorophyll a (mg/m ³) | 32211 | | | |
| Pheophytin (mg/m ³) | 32218 | | | |
| Total Kjeldahl Nitrogen (mg/L) | 00625 | | | |
| Flow | 00061 | | | |