

TABLE 41

TCEQ Segment 1804  
 TCEQ Station 21736  
 Station Name Guadalupe River 200 Meters Downstream of H-4 Dam at Lake Gonzales  
 Latitude 29.494911 Longitude -97.622592

| Parameter                         | Parameter Code | Date and 24 hour time |                |               |               |                |                 |                |                |                |                |                |                 |
|-----------------------------------|----------------|-----------------------|----------------|---------------|---------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
|                                   |                | 9/2/15<br>920         | 12/2/15<br>909 | 3/1/16<br>926 | 6/8/16<br>907 | 9/7/16<br>1041 | 12/12/16<br>958 | 3/13/17<br>940 | 6/5/17<br>1013 | 9/18/17<br>959 | 1/23/18<br>918 | 3/13/18<br>916 | 6/14/18<br>1006 |
| Flow (cfs)                        | 00061          | 350                   | 1017           | 579           | 5893          | 1063           | 865             | 1717           | 770            | 287            | 376            | 356            | 169             |
| E. coli(orc/100mL)                | 31699          | 11                    | 73             | 24            | 100           | 59             | 220             | 710            | 13             | 12             | 12             | 19             | 1               |
| Suspended Solids(mg/L)            | 00530          | 34                    | 22.3           | 12.1          | 223           | 1.75           | 20.5            | 82.7           | 13.1           | 7.60           | 7.20           | 10.30          | 27.40           |
| Turbidity(NTU)                    | 82079          | 25.2                  | 16.9           | 13            | 128           | 26.2           | 22.2            | 73.6           | 11.1           | 7.5            | 6.9            | 7.6            | 19.6            |
| pH                                | 00400          | 8                     | 7.9            | 7.9           | 8.0           | 8.0            | 7.7             | 7.7            | 8.2            | 8.0            | 8.1            | 8              | 8.1             |
| Temperature(C)                    | 00010          | 28.4                  | 15.2           | 18.6          | 23.2          | 28.1           | 13.1            | 17.8           | 28.2           | 28.4           | 11.6           | 19             | 30.5            |
| Dissolved Oxygen(mg/L)            | 00300          | 6.5                   | 9.2            | 8.5           | 8.9           | 7.4            | 9.6             | 8.3            | 6.9            | 7.4            | 11.2           | 8.7            | 7.4             |
| Conductivity(umhos/cm)            | 00094          | 521                   | 517            | 549           | 437           | 525            | 424             | 363            | 551            | 534            | 563            | 524            | 516             |
| Total Phosphorus(mg/L)            | 00665          | 0.06                  | 0.05           | 0.05          | 0.10          | 0.04           | 0.13            | 0.15           | 0.04           | 0.04           | 0.02           | 0.03           | 0.05            |
| Nitrate-N(mg/L)                   | 00620          | 0.83                  | 1.21           | 1.34          | 0.53          | 1.04           | 1.44            | 1.14           | 1.82           | 1.43           | 2.22           | 1.67           | 0.84            |
| Chloride(mg/L)                    | 00940          | 22.8                  | 20.8           | 24.8          | 15.8          | 16.4           | 19.1            | 13.9           | 23.6           | 24.0           | 25.4           | 24.4           | 30.1            |
| Sulfate(mg/L)                     | 00945          | 27.6                  | 25.6           | 31.4          | 19.5          | 20.7           | 28.1            | 18.2           | 30.1           | 31.7           | 34.2           | 33             | 36.4            |
| Total Hardness(mg/L)              | 00900          | 241                   | 248            | 249           | 300           | 260            | 193             | 181            | 257            | 238            | 259            | 231            | 211             |
| Ammonia-N(mg/L)                   | 00610          | <0.10                 | <0.10          | <0.10         | <0.10         | <0.10          | <0.10           | <0.10          | <0.10          | <0.10          | <0.10          | <0.10          | 0.1             |
| Chlorophyll a(mg/m <sup>3</sup> ) | 32211          | 3.74                  | 1.9            | 14.5          | 1.47          | 2.06           | <1.00           | <1.00          | 2.79           | 4.09           | <1.00          | 1.51           | 6.76            |
| Pheophytin(mg/m <sup>3</sup> )    | 32218          | 1.18                  | <1.00          | <1.00         | <1.0          | <1.0           | <1.00           | <1.00          | 1.57           | <1.00          | <1.00          | <1.00          | 3.89            |
| Total Kjeldahl Nitrogen (mg/L)    | 00625          | 0.41                  | 0.34           | 0.44          | 0.62          | 0.36           | 0.64            | 0.821          | 0.34           | 0.31           | <0.20          | 0.33           | 0.42            |

| Parameter                         | Parameter Code | Date and 24 hour time |                |                |                |                |                |                |
|-----------------------------------|----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                   |                | 9/17/18<br>1016       | 12/5/18<br>915 | 3/13/19<br>940 | 7/24/19<br>913 | 10/9/19<br>935 | 1/29/20<br>935 | 4/13/20<br>915 |
| Flow (cfs)                        | 00061          | 559                   | 861            | 775            | 665            | 300            | 368            | 388            |
| E. coli(orc/100mL)                | 31699          | 100                   | 39             | 47             | 8.6            | 27             | 49             | 12             |
| Suspended Solids(mg/L)            | 00530          | 24.1                  | 15.7           | 13             | 27             | 40.30          | 47.9           | 11.7           |
| Turbidity(NTU)                    | 82079          | 23.9                  | 11             | 13             | 21             | 23             | 21             | 12             |
| pH                                | 00400          | 7.9                   | 7.8            | 8.4            | 8.3            | 8.1            | 7.8            | 8              |
| Temperature(C)                    | 00010          | 27                    | 14.8           | 19.1           | 29.9           | 27.6           | 16             | 22.1           |
| Dissolved Oxygen(mg/L)            | 00300          | 6.3                   | 11             | 9.6            | 6.8            | 7.1            | 9.3            | 8.2            |
| Conductivity(umhos/cm)            | 00094          | 500                   | 516            | 528            | 504            | 505            | 550            | 539            |
| Total Phosphorus(mg/L)            | 00665          | 0.09                  | 0.05           | 0.03           | 0.06           | 0.052          | 0.077          | 0.111          |
| Nitrate-N(mg/L)                   | 00620          | 1.34                  | 1.24           | 1.63           | 1.02           | 1.18           | 1.94           | 1.80           |
| Chloride(mg/L)                    | 00940          | 25.6                  | 21.1           | 22.7           | 24             | 25.5           | 26             | 25.2           |
| Sulfate(mg/L)                     | 00945          | 31.5                  | 26.1           | 28.2           | 29.3           | 30.6           | 32.4           | 31.8           |
| Total Hardness(mg/L)              | 00900          | 23.9                  | 256            | 262            | 241            | 245            | 268            | 251            |
| Ammonia-N(mg/L)                   | 00610          | <0.10                 | <0.10          | <0.10          | <0.10          | <0.10          | <0.10          | <0.10          |
| Chlorophyll a(mg/m <sup>3</sup> ) | 32211          | 1.39                  | <1.00          | 3.1            | 2.79           | 2.17           | 2.56           | 1.9            |
| Pheophytin(mg/m <sup>3</sup> )    | 32218          | 1.04                  | <1.00          | <1.00          | <1.00          | <1.00          | <1.00          | <1.00          |
| Total Kjeldahl Nitrogen (mg/L)    | 00625          | <0.20                 | 0.31           | 0.57           | 0.29           | 0.23           | <0.20          | 0.32           |

| Parameter                         | Parameter Code |
|-----------------------------------|----------------|
| Flow (cfs)                        | 00061          |
| E. coli(orc/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 <sup>3</sup> ) | 32211          |
| Pheophytin(mg/m <sup>3</sup> )    | 32218          |
| Total Kjeldahl Nitrogen (mg/L)    | 00625          |

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

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