

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

| Report Abbreviations   | Description:  |  |  |
|--|---|--|--|
| <b>SEGID:</b>  | Unique Segment identification alpha-numeric code; can be stream, reservoir, estuary, oyster waters, beach watch, etc.   |  |  |
| <b>AUID:</b>   | Unique Assessment Unit code; this is a portion of the segment the AUID begins with and ends with _01, _02, etc. Some AUIDs are special units ending in "SA," or oyster water AUIDs are indicated by "OW" and beach watch AUIDs are indicated by abbreviations for name of beach in AUID.  |  |  |
| <b>ASMT Start Date:</b>  | The start date of the period of record data for this method was selected; the official 2012 period of record is from 12/1/2003 to 11/30/2010. Assessors have the option of going back 10 years (12/1/2000) to select more data, according to assessment guidance.   |  |  |
| <b>ASMT End Date</b>   | The end date of the period of record data for this method was selected; the official 2012 period of record dates are 12/1/2003 to 11/30/2010. Assessors have the option of including more recently collected data than 12/01/2010, if available.  |  |  |
| <b># Assd:</b>   | Number of samples assessed; some data are averaged, as with profile data, some are eliminated because criteria do not apply during certain conditions such as low flow.   |  |  |
| <b>Mean Assd:</b>  | Mean of samples assessed; includes averaged methods like chronic criteria as well as geometric mean calculations for bacteria.  |  |  |
| <b># Exceed:</b>   | The number of samples that exceed criteria for single sample, or binomial, methods (not averaged data).   |  |  |
| <b>Mean Exceed:</b>  | This is the mean of the samples that exceeded criteria for the single sample, or binomial, methods (not averaged data).   |  |  |
| <b>Criteria:</b>   | Value that the data is compared against to determine level of support; Note: for acute metals in water, each value is compared to a calculated criteria and not all criteria could be reported here, only the minimum in the range of criteria calculated are included.   |  |  |
| <b>DS Qual:</b>  | <p><i>Dataset Qualifier - indicates sample sizes:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>AD</b> = Adequate Data (10 or more samples)<br/> <b>LD</b> = Limited Data (less than 9, greater than 3)<br/> <b>ID</b> = Inadequate Data (less than 4)<br/> <b>JQ</b> = Level of support is based on judgment of the assessor                 </td> <td style="width: 50%; vertical-align: top;"> <b>SM</b> = This assessment method is superseded by another method<br/> <b>TR</b> = Temporally Not Representative, used with NA<br/> <b>SR</b> = Spatially Not Representative, used with NA<br/> <b>OE</b> = Other information than ambient samples evaluated, generally information is provided by outside entity                 </td> </tr> </table>  | <b>AD</b> = Adequate Data (10 or more samples)<br><b>LD</b> = Limited Data (less than 9, greater than 3)<br><b>ID</b> = Inadequate Data (less than 4)<br><b>JQ</b> = Level of support is based on judgment of the assessor | <b>SM</b> = This assessment method is superseded by another method<br><b>TR</b> = Temporally Not Representative, used with NA<br><b>SR</b> = Spatially Not Representative, used with NA<br><b>OE</b> = Other information than ambient samples evaluated, generally information is provided by outside entity |
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| <b>LOS:</b>  | <p><i>Level of support for this use, method, assessment parameter:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>FS</b> = Fully Supporting<br/> <b>NC</b> = No Concern<br/> <b>NA</b> = Not Assessed                 </td> <td style="width: 50%; vertical-align: top;"> <b>NS</b> = Nonsupport<br/> <b>CS</b> = Screening Level Concern<br/> <b>CN</b> = Use Concern                 </td> </tr> </table>   | <b>FS</b> = Fully Supporting<br><b>NC</b> = No Concern<br><b>NA</b> = Not Assessed   | <b>NS</b> = Nonsupport<br><b>CS</b> = Screening Level Concern<br><b>CN</b> = Use Concern   |
| <b>FS</b> = Fully Supporting<br><b>NC</b> = No Concern<br><b>NA</b> = Not Assessed   | <b>NS</b> = Nonsupport<br><b>CS</b> = Screening Level Concern<br><b>CN</b> = Use Concern  |  |  |
| <b>CF:</b>   | Carry forward indicator check box: indicates that the Integrated level of support of CS, CN, or NS was carried forward from a previous assessment due to inadequate data for this method in this assessment.  |  |  |
| <b>Int LOS:</b>  | Integrated level of support. This is the overall level of support for this use, method, parameter group, which could be different from the LOS (described above) due to carry forward information or other types of changes. New Code added in 2010: PI = Pending Issue   |  |  |
| <b>TCEQ Cause</b>  | This is the impairment description (e.g., bacteria, depressed dissolved oxygen, etc.)   |  |  |
| <b>Cat:</b>  | <p><i>This is the assessment category assigned to this impairment. Subcategories as follows:</i></p> <p><b>Category 4:</b> Standard is not supported or is threatened for one or more designated uses but does not require the development of a TMDL.</p> <p style="margin-left: 20px;"><b>4a</b> - TMDL has been completed and approved by EPA. Category.<br/> <b>4b</b> - Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future.<br/> <b>4c</b> - Nonsupport of the water quality standard is not caused by a pollutant.</p> <p><b>Category 5:</b> The water body does not meet applicable water quality standards or is threatened for one or more designated uses by one or more pollutants.</p> <p style="margin-left: 20px;"><b>5a</b> - A TMDL is underway, scheduled, or will be scheduled.<br/> <b>5b</b> - A review of the water quality standards for this water body will be conducted before a TMDL is scheduled.<br/> <b>5c</b> - Additional data and information will be collected before a TMDL is scheduled.</p> |  |  |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    **2101**    **Nueces River Tidal**

**AUID**    **2101\_01**    **Entire Water Body**

**USE**    **Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 46     |           | 0        |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 46     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 4.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 4      |           | 1        | 2.48        | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Zinc                      | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 92.70    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                      | 12/1/2003       | 11/30/2010    | 16     | 0.38      | 0        |             | 84.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Toxic Substances in sediment          | Zinc                      | 12/1/2003       | 11/30/2010    | 15     |           | 2        | 777.65      | 410.00   | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE**    **Recreation Use**

| Method           | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | Enterococcus | 12/1/2003       | 11/30/2010    | 23     | 24.89     | 0        |             | 35.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    **General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature      | 12/1/2003       | 11/30/2010    | 46     |           | 0        |             | 35.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH               | 12/1/2003       | 11/30/2010    | 46     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Low pH                    | pH               | 12/1/2003       | 11/30/2010    | 46     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.46     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 26     |           | 13       | 37.58       | 21.00    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.46     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 1.10     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 0.66     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID 2102 Nueces River Below Lake Corpus Christi**

**AUID 2102\_01** From the downstream end of segment to the confluence with Javelin Creek

**USE Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 23     | 82.03     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 32.80    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 56     | 53.06     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 56     | 546.09    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 56     | 153.88    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 28     |           | 13       | 21.68       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a          |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |

**USE Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 24     | 0.06      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2102\_02 From the confluence with Javelin Creek to the upstream end of segment at Lake Corpus Christi

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 24     | 18.18     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 32.80    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 56     | 153.88    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 56     | 53.06     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 56     | 546.09    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 28     |           | 9        | 23.06       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a          |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 24     | 0.06      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID 2103 Lake Corpus Christi**

**AUID 2103\_01 Mid-lake near dam**

**USE Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 47     |           | 1        | 3.85        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 47     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 221.23   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 240.30   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 8      |           | 0        |             | 20.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 39     |           | 0        |             | 2,968.52 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 39     |           | 0        |             | 1,123.98 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 31     |           | 0        |             | 88.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 39     |           | 0        |             | 42.04    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 39     | 0.56      | 0        |             | 246.76   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 38     | 1.50      | 0        |             | 146.52   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 8      | 1.00      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 39     | 2.32      | 0        |             | 220.27   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 39     | 1.74      | 0        |             | 17.27    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 31     | 0.02      | 0        |             | 1.41     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2003       | 11/30/2010    | 38     | 5.20      | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 38     | 0.21      | 0        |             | 4.19     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2103\_01 Mid-lake near dam

**USE** Aquatic Life Use

| Method                       | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Manganese | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1,100.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Nickel    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 48.60    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Silver    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 2.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Mercury   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Copper    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 149.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Chromium  | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 111.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Cadmium   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 4.98     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Arsenic   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 33.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Zinc      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 459.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Lead      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 128.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 28     | 1.66      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 55     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 47     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 47     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 98     | 160.29    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Sulfate                | 12/1/2003       | 11/30/2010    | 98     | 63.10     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 169    | 577.88    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

|             |                |                   |
|-------------|----------------|-------------------|
| <b>AUID</b> | <b>2103_01</b> | Mid-lake near dam |
|-------------|----------------|-------------------|

|            |                    |
|------------|--------------------|
| <b>USE</b> | <b>General Use</b> |
|------------|--------------------|

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause      | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|-----------------|-----|
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 13     |           | 8        | 0.11        | 0.05     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 28     |           | 3        | 0.31        | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 28     |           | 6        | 36.77       | 26.70    | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |

|            |                             |
|------------|-----------------------------|
| <b>USE</b> | <b>Fish Consumption Use</b> |
|------------|-----------------------------|

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 49     | 0.92      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

|            |                                |
|------------|--------------------------------|
| <b>USE</b> | <b>Public Water Supply Use</b> |
|------------|--------------------------------|

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 76     | 0.06      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 31     | 134.55    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 48     | 5.18      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2103\_02** Area approx. 4 mi. SE of FM 3162 and FM 534 intersection near western shore

**USE** **Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 9      | 3.13      | 0        |             | 126.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** **General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 37     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 98     | 160.29    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 98     | 63.10     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 169    | 577.88    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |
| Nutrient Screening Levels | Ammonia                | 12/1/2000       | 11/30/2010    | 9      |           | 0        |             | 0.11     | LD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2000       | 11/30/2010    | 9      |           | 2        | 0.24        | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2000       | 11/30/2010    | 9      |           | 4        | 45.58       | 26.70    | LD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a          |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2000       | 11/30/2010    | 9      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |                        |     |

**USE** **Fish Consumption Use**

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 49     | 0.92      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2103\_02 Area approx. 4 mi. SE of FM 3162 and FM 534 intersection near western shore

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 31     | 134.55    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 48     | 5.18      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 76     | 0.06      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2103\_03 Western arm of lake near Lagarto Creek inlet

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 17     |           | 2        | 34          | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Sulfate                | 12/1/2003       | 11/30/2010    | 98     | 63.10     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 169    | 577.88    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 98     | 160.29    |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 49     | 0.92      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 48     | 5.18      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 31     | 134.55    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

|             |                |  |
|-------------|----------------|--|
| <b>AUID</b> | <b>2103_03</b> | Western arm of lake near Lagarto Creek inlet |
|-------------|----------------|--|

|            |                                |
|------------|--------------------------------|
| <b>USE</b> | <b>Public Water Supply Use</b> |
|------------|--------------------------------|

| Method                                    | Parameter | ASMT<br>Start Date | ASMT<br>End Date | # Assd | Mean<br>assd | #<br>exceed | Mean<br>exceed | Criteria | DS<br>Qual | LOS | CF                       | Int<br>LOS | TCEQ Cause | Cat |
|---|-----------|--------------------|------------------|--------|--------------|-------------|----------------|----------|------------|-----|--------------------------|------------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003          | 11/30/2010       | 76     | 0.06         | 0           |                | 10.00    | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003          | 11/30/2010       | 18     | 0.71         | 0           |                | 50.00    | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003          | 11/30/2010       | 31     | 0.36         | 0           |                | 6.00     | AD         | FS  | <input type="checkbox"/> | FS         |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

|             |                |  |
|-------------|----------------|--|
| <b>AUID</b> | <b>2103_04</b> | Upper portion of lake on opposite shore from Hideaway Hill |
|-------------|----------------|--|

|            |                         |
|------------|-------------------------|
| <b>USE</b> | <b>Aquatic Life Use</b> |
|------------|-------------------------|

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 1        | 4.67        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

|            |                       |
|------------|-----------------------|
| <b>USE</b> | <b>Recreation Use</b> |
|------------|-----------------------|

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 11     | 6.56      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

|            |                    |
|------------|--------------------|
| <b>USE</b> | <b>General Use</b> |
|------------|--------------------|

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 169    | 577.88    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 98     | 160.29    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 98     | 63.10     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 11     |           | 6        | 0.31        | 0.20     | AD      | CS  | <input type="checkbox"/> | CS      | total phosphorus       |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 11     |           | 1        | 28.3        | 26.70    | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 11     |           | 11       | 0.1         | 0.05     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus        |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |

|            |                             |
|------------|-----------------------------|
| <b>USE</b> | <b>Fish Consumption Use</b> |
|------------|-----------------------------|

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 49     | 0.92      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

|             |                |  |
|-------------|----------------|--|
| <b>AUID</b> | <b>2103_04</b> | Upper portion of lake on opposite shore from Hideaway Hill |
|-------------|----------------|--|

|            |                             |
|------------|-----------------------------|
| <b>USE</b> | <b>Fish Consumption Use</b> |
|------------|-----------------------------|

| Method                             | Parameter | ASMT<br>Start Date | ASMT<br>End Date | # Assd | Mean<br>assd | #<br>exceed | Mean<br>exceed | Criteria | DS<br>Qual | LOS | CF                       | Int<br>LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|--------------------|------------------|--------|--------------|-------------|----------------|----------|------------|-----|--------------------------|------------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003          | 11/30/2010       | 31     | 0.36         | 0           |                | 6.00     | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003          | 11/30/2010       | 37     | 0.21         | 0           |                | 5.00     | AD         | FS  | <input type="checkbox"/> | FS         |            |     |

|            |                                |
|------------|--------------------------------|
| <b>USE</b> | <b>Public Water Supply Use</b> |
|------------|--------------------------------|

| Method                                    | Parameter | ASMT<br>Start Date | ASMT<br>End Date | # Assd | Mean<br>assd | #<br>exceed | Mean<br>exceed | Criteria | DS<br>Qual | LOS | CF                       | Int<br>LOS | TCEQ Cause | Cat |
|---|-----------|--------------------|------------------|--------|--------------|-------------|----------------|----------|------------|-----|--------------------------|------------|------------|-----|
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003          | 11/30/2010       | 31     | 0.36         | 0           |                | 6.00     | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003          | 11/30/2010       | 48     | 5.18         | 0           |                | 10.00    | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003          | 11/30/2010       | 31     | 134.55       | 0           |                | 2,000.00 | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003          | 11/30/2010       | 37     | 0.21         | 0           |                | 5.00     | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003          | 11/30/2010       | 48     | 0.29         | 0           |                | 1.15     | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003          | 11/30/2010       | 76     | 0.06         | 0           |                | 10.00    | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003          | 11/30/2010       | 18     | 0.71         | 0           |                | 50.00    | AD         | FS  | <input type="checkbox"/> | FS         |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2103\_05 Upper arm of reservoir in more riverine section surrounding FM 534

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 12     |           | 1        | 3.55        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 169    | 577.88    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 98     | 160.29    |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Sulfate                | 12/1/2003       | 11/30/2010    | 98     | 63.10     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 49     | 0.92      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 76     | 0.06      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2103\_05 Upper arm of reservoir in more riverine section surrounding FM 534

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 48     | 5.18      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 31     | 134.55    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2103\_06**

Uppermost riverine part of reservoir upstream of FM 534 to upper end of segment to just upstream of US Highway 59.

**USE**

**Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 28     |           | 1        | 4.87        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 1,832.76 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 398.51   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 20.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 4,919.11 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 73.78    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 172.57   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 10     |           | 1        | 6970        | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 473.04   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 10     | 2.90      | 0        |             | 220.27   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 10     | 0.48      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 10     | 0.64      | 0        |             | 4.19     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 9      | 2.15      | 0        |             | 17.27    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 10     | 2.33      | 0        |             | 246.76   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 6      | 0.42      | 0        |             | 1.41     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2003       | 11/30/2010    | 10     | 12.83     | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 10     | 2.63      | 0        |             | 146.52   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2103\_06 Uppermost riverine part of reservoir upstream of FM 534 to upper end of segment to just upstream of US Highway 59.

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 28     | 15.93     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 169    | 577.88    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5c  |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 98     | 160.29    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 98     | 63.10     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 28     |           | 10       | 0.35        | 0.20     | AD      | CS  | <input type="checkbox"/> | CS      | total phosphorus       |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 28     |           | 12       | 63.18       | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a          |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 13     |           | 6        | 0.13        | 0.05     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus        |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 28     |           | 2        | 0.63        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 49     | 0.92      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2103\_06 Uppermost riverine part of reservoir upstream of FM 534 to upper end of segment to just upstream of US Highway 59.

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 76     | 0.06      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 37     | 0.21      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 31     | 134.55    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 48     | 5.18      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 48     | 0.29      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2104    Nueces River Above Frio River

**AUID**    2104\_01    From the downstream end of the segment to the confluence with Dragon Creek

**USE**    Aquatic Life Use

| Method                                | Parameter                   | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                           | Cat |
|---------------------------------------|-----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|--------------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 19     |           | 4        | 3.1         | 5.00     | SM      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen           |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 19     |           | 1        | 1.4         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                                      |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg   | 12/1/2000       | 11/30/2010    | 14     |           | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |                                      |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min   | 12/1/2000       | 11/30/2010    | 14     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                                      |     |
| Habitat                               | Habitat                     | 12/1/2003       | 11/30/2010    | 2      | 19.50     |          |             | 20.00    | AD      | NC  | <input type="checkbox"/> | NC      |                                      |     |
| Macroinvertebrate Community           | Macroinvertebrate Community | 12/1/2003       | 11/30/2010    | 2      | 27.26     |          |             | 29.00    | AD      | NS  | <input type="checkbox"/> | CN      | impaired macroinvertebrate community |     |
| Fish Community                        | Fish Community              | 12/1/2003       | 11/30/2010    | 2      | 40.42     |          |             | 37.00    | AD      | FS  | <input type="checkbox"/> | FS      |                                      |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 17     | 67.56     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 75     | 1059.38   | 0        |             | 1,500.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 66     | 56.84     | 0        |             | 300.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 66     | 465.26    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 19     |           | 2        | 8.38        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2104\_01** From the downstream end of the segment to the confluence with Dragon Creek

**USE** **General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 19     |           | 4        | 25.15       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** **Fish Consumption Use**

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 13     | 0.02      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 13     | 0.17      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 13     | 0.25      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 12     | 0.08      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 13     | 110.23    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 13     | 0.17      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 54     | 0.49      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 13     | 0.02      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 13     | 3.24      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 12     | 0.08      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2104\_02**

From the confluence with Dragon Creek to the confluence with Guadalupe Creek

**USE**

**Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 39     |           | 6        | 4.12        | 5.00     | SM      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 39     |           | 2        | 2.7         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2000       | 11/30/2010    | 15     |           | 1        | 1.2         | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2000       | 11/30/2010    | 15     |           | 1        | 0.5         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Lead                      | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 269.19   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Aluminum                  | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Nickel                    | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 3,382.03 | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Zinc                      | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 273.83   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Mercury                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2.40     | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Acute Toxic Substances in water       | Chromium                  | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 1,275.23 | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Arsenic                   | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Cadmium                   | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 104.72   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Acute Toxic Substances in water       | Copper                    | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 48.61    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Chronic Toxic Substances in water     | Mercury                   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 1.30     | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Chronic Toxic Substances in water     | Nickel                    | 12/1/2003       | 11/30/2010    | 12     | 1.66      | 0        |             | 205.16   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Chronic Toxic Substances in water     | Lead                      | 12/1/2003       | 11/30/2010    | 12     | 0.08      | 0        |             | 3.76     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Chronic Toxic Substances in water     | Copper                    | 12/1/2003       | 11/30/2010    | 12     | 2.25      | 0        |             | 16.08    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Chronic Toxic Substances in water     | Chromium                  | 12/1/2003       | 11/30/2010    | 13     | 0.25      | 0        |             | 230.36   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Chronic Toxic Substances in water     | Cadmium                   | 12/1/2003       | 11/30/2010    | 13     | 0.02      | 0        |             | 1.32     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Chronic Toxic Substances in water     | Arsenic                   | 12/1/2003       | 11/30/2010    | 13     | 3.24      | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Chronic Toxic Substances in water     | Zinc                      | 12/1/2003       | 11/30/2010    | 11     | 0.93      | 0        |             | 136.46   | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2104\_02 From the confluence with Dragon Creek to the confluence with Guadalupe Creek

**USE** Aquatic Life Use

| Method                      | Parameter                   | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                           | Cat |
|-----------------------------|-----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|--------------------------------------|-----|
| Habitat                     | Habitat                     | 12/1/2003       | 11/30/2010    | 2      | 21.00     |          |             | 20.00    | AD      | NC  | <input type="checkbox"/> | NC      |                                      |     |
| Macroinvertebrate Community | Macroinvertebrate Community | 12/1/2003       | 11/30/2010    | 2      | 29.93     |          |             | 29.00    | AD      | CN  | <input type="checkbox"/> | CN      | impaired macroinvertebrate community |     |
| Fish Community              | Fish Community              | 12/1/2003       | 11/30/2010    | 2      | 35.37     |          |             | 37.00    | AD      | NS  | <input type="checkbox"/> | CN      | impaired fish community              |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 22     | 36.29     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 66     | 56.84     | 0        |             | 300.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 66     | 465.26    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 75     | 1059.38   | 0        |             | 1,500.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 44     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 17     |           | 1        | 0.41        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 44     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 30     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 30     |           | 5        | 25.86       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2104\_02** From the confluence with Dragon Creek to the confluence with Guadalupe Creek

**USE** **Fish Consumption Use**

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 13     | 0.17      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 12     | 0.08      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 13     | 0.25      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 13     | 0.02      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 13     | 110.23    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 13     | 0.02      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 12     | 0.08      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 54     | 0.49      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 13     | 0.17      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 13     | 3.24      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2104\_03** From the confluence with Guadalupe Creek to the upstream end of the segment

**USE** **Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2000       | 11/30/2010    | 12     |           | 3        | 3.48        | 5.00     | AD      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen      |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2000       | 11/30/2010    | 12     |           | 1        | 2.09        | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 2      | 21.00     |          |             | 20.00    | AD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 2      | 24.59     |          |             | 29.00    | AD      | NS  | <input type="checkbox"/> | CN      | impaired macrobenthic community |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 2      | 33.00     |          |             | 37.00    | JQ      | NA  | <input type="checkbox"/> | NA      |                                 |     |

**USE** **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 2      | 322.49    | 1        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** **General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 32.20    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 9.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 6.50     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 75     | 1059.38   | 0        |             | 1,500.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 66     | 465.26    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 66     | 56.84     | 0        |             | 300.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1.95     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 14.10    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.69     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2104\_03** From the confluence with Guadalupe Creek to the upstream end of the segment

**USE** **General Use**

| Method                    | Parameter       | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|-----------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Orthophosphorus | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Ammonia         | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 0.33     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** **Fish Consumption Use**

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 13     | 0.02      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 13     | 0.25      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 12     | 0.08      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 13     | 0.17      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 12     | 0.08      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 13     | 0.17      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 13     | 110.23    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 13     | 3.24      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 54     | 0.49      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 13     | 0.02      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2105    Nueces River Above Holland Dam

**AUID**    2105\_01    From the downstream end of the segment at Holland Dam to the confluence of Sauz Mocho Creek

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 16     |           | 6        | 4.08        | 5.00     | AD      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 16     | 60.56     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 41     | 90.73     | 0        |             | 200.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 41     | 65.15     | 0        |             | 200.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 43     | 444.77    | 0        |             | 900.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 20     |           | 5        | 46.5        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2105\_01 From the downstream end of the segment at Holland Dam to the confluence of Sauz Mocho Creek

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 33     | 0.17      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 32     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2105\_02** From the confluence with Sauz Macho Creek to the confluence of Line Oak Slough

**USE** **Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 15     |           | 5        | 1.66        | 5.00     | AD      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 15     |           | 3        | 0.37        | 3.00     | AD      | NS  | <input type="checkbox"/> | NS      | depressed dissolved oxygen | 5c  |

**USE** **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 13     | 39.45     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 43     | 444.77    | 0        |             | 900.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 41     | 90.73     | 0        |             | 200.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 41     | 65.15     | 0        |             | 200.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 13     |           | 6        | 38.9        | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |

**USE** **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 32     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 33     | 0.17      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2105\_03 From the confluence of Line Oak Slough to the upstream end of the segment at Ranch Rd. 1025

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 41     | 65.15     |          |             | 200.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 43     | 444.77    |          |             | 900.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 41     | 90.73     |          |             | 200.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 33     | 0.17      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 32     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2106    Nueces/Lower Frio River

**AUID**    2106\_01    The Nueces river from the downstream end of segment to the confluence with the Frio River

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 63     |           | 1        | 4.67        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 63     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 33     |           | 0        |             | 1,552.40 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 33     |           | 0        |             | 335.62   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 20.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 33     |           | 0        |             | 4,143.89 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Mercury               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2.40     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 33     |           | 0        |             | 365.45   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 137.30   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 33     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 33     |           | 1        | 4320        | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 60.96    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 28     | 2.17      | 0        |             | 18.16    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 28     | 3.11      | 0        |             | 153.98   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 11     | 0.68      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 28     | 2.40      | 0        |             | 231.47   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 28     | 0.26      | 0        |             | 4.51     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 28     | 1.03      | 0        |             | 258.90   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 21     | 0.10      | 0        |             | 1.48     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2106\_01 The Nueces river from the downstream end of segment to the confluence with the Frio River

**USE** Aquatic Life Use

| Method                            | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|-----------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Chronic Toxic Substances in water | Arsenic   | 12/1/2003       | 11/30/2010    | 28     | 4.41      | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 1.30     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Manganese | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1,100.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Silver    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 2.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Zinc      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 459.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Nickel    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 48.60    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Mercury   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Copper    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 149.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Chromium  | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 111.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Arsenic   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 33.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Cadmium   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 4.98     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment      | Lead      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 128.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 42     | 55.99     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 63     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 63     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 63     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 103    | 674.68    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5b  |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2106\_01 The Nueces river from the downstream end of segment to the confluence with the Frio River

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids          | Chloride         | 12/1/2003       | 11/30/2010    | 103    | 188.26    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate          | 12/1/2003       | 11/30/2010    | 103    | 100.30    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 49     |           | 12       | 22.22       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 68     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 68     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 49     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | 1,2-Dichloropropane       | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Dichloromethane           | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Chloroform                | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 70.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Vinyl chloride            | 12/1/2003       | 11/30/2010    | 7      | 0.13      | 0        |             | 0.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,1,2-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,1,1-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 200.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Bromoform                 | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 69.10    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Tetrachloroethene         | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,1,2,2-Tetrachloroethane | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 3.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Mercury                   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2106\_01**

The Nueces river from the downstream end of segment to the confluence with the Frio River

**USE**

**Fish Consumption Use**

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Carbon tetrachloride    | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 4.10     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | 1,1-Dichloroethylene    | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 7.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Lead                    | 12/1/2003       | 11/30/2010    | 46     | 0.34      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water    | Trichloroethene         | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Antimony                | 12/1/2003       | 11/30/2010    | 17     | 0.23      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water    | Bromodichloromethane    | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 10.20    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Cadmium                 | 12/1/2003       | 11/30/2010    | 27     | 0.25      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water    | Chlorobenzene           | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 100.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | 1,2-Dichloroethane      | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Chromium                | 12/1/2003       | 11/30/2010    | 46     | 1.41      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2106\_01 The Nueces river from the downstream end of segment to the confluence with the Frio River

**USE** Fish Consumption Use

| Method                                | Parameter          | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|--------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Chromium           | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | 1,2-Dichloroethane        | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1-Dichloroethylene      | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 7.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,2-Dichloropropane       | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1,2,2-Tetrachloroethane | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 3.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Tetrachloroethene         | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Toluene                   | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Bromoform                 | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 69.10    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1,2-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Dichloromethane           | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1,1-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 200.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Chloroform                | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 70.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Carbon tetrachloride      | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 4.10     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2106\_01 The Nueces river from the downstream end of segment to the confluence with the Frio River

**USE** Public Water Supply Use

| Method   | Parameter            | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Bromodichloromethane | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 10.20    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Benzene              | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Antimony             | 12/1/2003       | 11/30/2010    | 17     | 0.23      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Trichloroethene      | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Selenium             | 12/1/2003       | 11/30/2010    | 29     | 0.70      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate              | 12/1/2003       | 11/30/2010    | 94     | 0.17      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Mercury              | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average      | Arsenic              | 12/1/2003       | 11/30/2010    | 46     | 4.62      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Lead                 | 12/1/2003       | 11/30/2010    | 46     | 0.34      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Vinyl chloride       | 12/1/2003       | 11/30/2010    | 7      | 0.13      | 0        |             | 0.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Cadmium              | 12/1/2003       | 11/30/2010    | 27     | 0.25      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Barium               | 12/1/2003       | 11/30/2010    | 17     | 100.24    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Chlorobenzene        | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 100.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE                 | 12/1/2000       | 11/30/2010    | 7      | 0.25      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2106\_02**

The Frio River from the confluence with the Nueces River to Choke Canyon Dam

**USE**

**Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 18     |           | 1        | 1230        | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 127.33   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 1,469.76 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 17     |           | 0        |             | 57.24    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 335.66   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 3,916.24 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 20.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 317.16   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 18     | 0.58      | 0        |             | 4.51     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 18     | 2.33      | 0        |             | 153.98   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 18     | 3.39      | 0        |             | 231.47   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 18     | 1.99      | 0        |             | 258.90   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2003       | 11/30/2010    | 18     | 11.05     | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 6      | 0.43      | 0        |             | 1.48     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 17     | 1.55      | 0        |             | 18.16    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Toxic Substances in sediment          | Mercury               | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 1.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Zinc                  | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 459.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2106\_02 The Frio River from the confluence with the Nueces River to Choke Canyon Dam

**USE** Aquatic Life Use

| Method                       | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Nickel    | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 48.60    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Manganese | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 1,100.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Lead      | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 128.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Copper    | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 149.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Chromium  | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 111.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Cadmium   | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 4.98     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Arsenic   | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 33.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Silver    | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 2.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 35     | 92.09     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause             | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 103    | 674.68    | 1        |             | 500.00   | AD      | NS  | <input type="checkbox"/> | NS      | total dissolved solids | 5b  |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 103    | 188.26    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 103    | 100.30    | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |                        |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |                        |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2106\_02 The Frio River from the confluence with the Nueces River to Choke Canyon Dam

**USE** General Use

| Method                    | Parameter     | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|---------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Chlorophyll-a | 12/1/2003       | 11/30/2010    | 35     |           | 7        | 17.39       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate       | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Dichloromethane           | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Chloroform                | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 70.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Vinyl chloride            | 12/1/2003       | 11/30/2010    | 7      | 0.13      | 0        |             | 0.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,1,2-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,1,1-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 200.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Bromoform                 | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 69.10    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,1,2,2-Tetrachloroethane | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 3.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,2-Dichloropropane       | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | 1,1-Dichloroethylene      | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 7.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Mercury                   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium                   | 12/1/2003       | 11/30/2010    | 27     | 0.25      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Tetrachloroethene         | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Lead                      | 12/1/2003       | 11/30/2010    | 46     | 0.34      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | 1,2-Dichloroethane        | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Trichloroethene           | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Antimony                  | 12/1/2003       | 11/30/2010    | 17     | 0.23      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2106\_02 The Frio River from the confluence with the Nueces River to Choke Canyon Dam

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Benzene                 | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Bromodichloromethane    | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 10.20    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Carbon tetrachloride    | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 4.10     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Chlorobenzene           | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 100.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Chromium                | 12/1/2003       | 11/30/2010    | 46     | 1.41      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

|             |                |  |
|-------------|----------------|--|
| <b>AUID</b> | <b>2106_02</b> | The Frio River from the confluence with the Nueces River to Choke Canyon Dam |
|-------------|----------------|--|

|            |                             |
|------------|-----------------------------|
| <b>USE</b> | <b>Fish Consumption Use</b> |
|------------|-----------------------------|

| Method                                | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Copper    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

|            |                                |
|------------|--------------------------------|
| <b>USE</b> | <b>Public Water Supply Use</b> |
|------------|--------------------------------|

| Method                                    | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Vinyl chloride            | 12/1/2003       | 11/30/2010    | 7      | 0.13      | 0        |             | 0.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,2-Dichloropropane       | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1,2,2-Tetrachloroethane | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 3.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Dichloromethane           | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Tetrachloroethene         | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Selenium                  | 12/1/2003       | 11/30/2010    | 29     | 0.70      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Toluene                   | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Bromoform                 | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 69.10    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1,2-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Chloroform                | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 70.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1-Dichloroethylene      | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 7.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | 1,1,1-Trichloroethane     | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 200.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Arsenic                   | 12/1/2003       | 11/30/2010    | 46     | 4.62      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | 1,2-Dichloroethane        | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Antimony                  | 12/1/2003       | 11/30/2010    | 17     | 0.23      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium                    | 12/1/2003       | 11/30/2010    | 17     | 100.24    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium                   | 12/1/2003       | 11/30/2010    | 27     | 0.25      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2106\_02**

The Frio River from the confluence with the Nueces River to Choke Canyon Dam

**USE**

**Public Water Supply Use**

| Method   | Parameter            | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Lead                 | 12/1/2003       | 11/30/2010    | 46     | 0.34      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Mercury              | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average      | Trichloroethene      | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Benzene              | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Bromodichloromethane | 12/1/2003       | 11/30/2010    | 7      | 0.50      | 0        |             | 10.20    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Carbon tetrachloride | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 4.10     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Chlorobenzene        | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 100.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate              | 12/1/2003       | 11/30/2010    | 94     | 0.17      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water Toxic Substances average concern | MTBE                 | 12/1/2003       | 11/30/2010    | 7      | 0.25      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2107    Atascosa River

**AUID**    2107\_01    From the downstream end of the segment at the confluence with the Frio River to the confluence with Borrego Creek

**USE**    Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 44     |           | 4        | 3.43        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 44     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 11     |           | 1        | 3           | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 11     |           | 1        | 2           | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Recreation Use

| Method                 | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Single Sample | E. coli   | 12/1/2001       | 11/30/2008    | 35     |           | 16       | 2880.38     | 394.00   | SM      | NS  | <input type="checkbox"/> | NA      | bacteria   | 5b  |
| Bacteria Geomean       | E. coli   | 12/1/2003       | 11/30/2010    | 35     | 355.95    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 44     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 44     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 44     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 80     | 247.46    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 231.54    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 108    | 1088.85   | 0        |             | 1,500.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 37     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 23     |           | 1        | 0.49        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 37     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 37     |           | 3        | 0.76        | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2107\_01**

From the downstream end of the segment at the confluence with the Frio River to the confluence with Borrego Creek

**USE**

**General Use**

| Method                    | Parameter     | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|---------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Nutrient Screening Levels | Chlorophyll-a | 12/1/2003       | 11/30/2010    | 37     |           | 13       | 24.28       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 25     | 0.26      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 84     | 0.32      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2107\_02 From the confluence with Borrego Creek to the confluence with Galvan Creek

**USE** Aquatic Life Use

| Method                                | Parameter                   | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                           | Cat |
|---------------------------------------|-----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|--------------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 19     |           | 10       | 3.13        | 5.00     | SM      | CS  | <input type="checkbox"/>            | CS      | depressed dissolved oxygen           |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 19     |           | 5        | 2.26        | 3.00     | AD      | NS  | <input type="checkbox"/>            | NS      | depressed dissolved oxygen           | 5b  |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg   | 12/1/2003       | 11/30/2010    | 11     |           | 5        | 4.4         | 5.00     | AD      | NS  | <input type="checkbox"/>            | NS      | depressed dissolved oxygen           | 5b  |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min   | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/>            | FS      |                                      |     |
| Habitat                               | Habitat                     | 12/1/2003       | 11/30/2010    | 0      | 16.00     |          |             | 20.00    | ID      | NA  | <input checked="" type="checkbox"/> | CS      | impaired habitat                     |     |
| Macroinvertebrate Community           | Macroinvertebrate Community | 12/1/2003       | 11/30/2010    | 0      | 24.00     |          |             | 29.00    | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired macroinvertebrate community | 5b  |
| Fish Community                        | Fish Community              | 12/1/2003       | 11/30/2010    | 0      | 39.00     |          |             | 42.00    | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired fish community              | 5b  |

**USE** Recreation Use

| Method                 | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Single Sample | E. coli   | 12/1/2001       | 11/30/2008    | 32     |           | 13       | 819.12      | 394.00   | SM      | NS  | <input type="checkbox"/> | NA      | bacteria   | 5b  |
| Bacteria Geomean       | E. coli   | 12/1/2003       | 11/30/2010    | 10     | 249.56    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause      | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|-----------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 80     | 247.46    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 231.54    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 108    | 1088.85   | 0        |             | 1,500.00 | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 11     |           | 3        | 3.96        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 11     |           | 4        | 1.27        | 0.37     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2107\_02** From the confluence with Borrego Creek to the confluence with Galvan Creek

**USE** **General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 11     |           | 3        | 1.65        | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 25     | 0.26      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 84     | 0.32      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2107\_03 From the confluence with Galvan Creek to the confluence with Palo Alto Creek

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 45     |           | 7        | 2.96        | 5.00     | SM      | CS  | <input type="checkbox"/>            | CS      | depressed dissolved oxygen      |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 45     |           | 4        | 2.15        | 3.00     | AD      | FS  | <input type="checkbox"/>            | FS      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 13     |           | 1        | 4.54        | 5.00     | AD      | FS  | <input type="checkbox"/>            | FS      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 13     |           | 1        | 2.8         | 3.00     | AD      | FS  | <input type="checkbox"/>            | FS      |                                 |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 0      | 16.00     |          |             | 20.00    | ID      | NA  | <input checked="" type="checkbox"/> | CS      | impaired habitat                |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 0      | 27.00     |          |             | 29.00    | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired macrobenthic community | 5b  |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 0      | 41.00     |          |             | 42.00    | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired fish community         | 5b  |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 37     | 74.47     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 45     |           | 1        | 33.7        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 45     |           | 1        | 9.1         | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 45     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 231.54    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 80     | 247.46    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 108    | 1088.85   | 0        |             | 1,500.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 34     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 34     |           | 1        | 0.45        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 34     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2107\_03** From the confluence with Galvan Creek to the confluence with Palo Alto Creek

**USE** **General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 30     |           | 24       | 36.4        | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |

**USE** **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 25     | 0.26      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 84     | 0.32      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2107\_04 From the confluence with Palo Alto Creek to the upper end of the segment

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 3        | 2.27        | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 2        | 1.1         | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 3      |           | 2        | 1.2         | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 3      |           | 2        | 0.3         | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 32.20    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 9.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 6.50     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 108    | 1088.85   | 0        |             | 1,500.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 231.54    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 80     | 247.46    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 3      |           | 3        | 98.87       | 14.10    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1.95     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 0.38        | 0.33     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 0.69     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 25     | 0.26      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 84     | 0.32      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2108    San Miguel Creek

**AUID**    2108\_01    From the downstream end of the segment to the confluence of Liveoak Creek

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 13     |           | 2        | 3.45        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 13     | 164.91    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 35.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 27     | 271.56    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 27     | 283.59    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 27     | 1120.04   | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 27     |           | 3        | 3.3         | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 27     |           | 6        | 27.27       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE**    Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 13     | 0.23      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2108\_02 From the confluence of Liveoak Creek to the upstream end of segment

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 27     | 1120.04   | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 27     | 271.56    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 27     | 283.59    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 13     | 0.23      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2109    Leona River

**AUID**    2109\_01    From the downstream end of segment to the confluence of Yoledigo Creek

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 84     |           | 8        | 4.23        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 84     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 80     | 211.79    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 88     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 87     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 87     |           | 1        | 6.26        | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 90     | 474.95    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 81     | 68.49     | 0        |             | 650.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 81     | 120.60    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 82     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 83     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 61     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 77     |           | 65       | 4.19        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 78     |           | 3        | 31.8        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_01 From the downstream end of segment to the confluence of Yoledigo Creek

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDE                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.45     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDT                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | beta-BHC                | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 1.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.53     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.13     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | BHC-alpha isomer        | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.60     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDD                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 9.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 250.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chlordane               | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.30     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.23     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.04     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.14     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 4.38     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_01 From the downstream end of segment to the confluence of Yoledigo Creek

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 59     | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 77     | 3.71      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_02 From the confluence of Yoledigo Creek to the confluence of Camp Lake Slough

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 84     |           | 8        | 4.23        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 84     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 80     | 211.79    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 88     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 87     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 87     |           | 1        | 6.26        | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 90     | 474.95    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 81     | 68.49     | 0        |             | 650.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 81     | 120.60    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 82     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 83     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 77     |           | 65       | 4.19        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 78     |           | 3        | 31.8        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 61     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | BHC-alpha isomer        | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_02 From the confluence of Yoledigo Creek to the confluence of Camp Lake Slough

**USE** Fish Consumption Use

| Method                                | Parameter  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | DDE        | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.45     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDT        | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | beta-BHC   | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 1.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium   | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 4.38     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs       | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.13     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead       | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.60     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin   | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDD        | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 9.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 250.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium   | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chlordane  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.30     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.23     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.04     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.14     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.53     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 59     | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 77     | 3.71      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2109\_03** From the confluence of Camp Lake Slough to the upper end of segment

**USE** **Aquatic Life Use**

| Method                                | Parameter                   | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria   | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------------|-----------------|---------------|--------|-----------|----------|-------------|------------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 84     |           | 8        | 4.23        | 5.00       | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 84     |           | 0        |             | 3.00       | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Toxic Substances in sediment          | Acetone                     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 367,990.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Iron                        | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 40,000.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 1,2-Dichloroethene (trans)  | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 71,840.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 1,2-Dichloroethane          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 28,690.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 1,1-Dichloroethane          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 13,890.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Dichlorodifluoromethane     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 22,090.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Chlorobenzene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 19,870.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Ethylbenzene                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 17,180.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Bromodichloromethane        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 14,740.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 4-Methyl-2-Pentanone (MIBK) | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 116,590.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | DDT                         | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 62.90      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Di-n-butyl phthalate        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 43.00      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Toxaphene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 32.00      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | gamma-BHC (Lindane)         | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4.99       | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | beta-BHC                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 210.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | alpha-BHC                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 100.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Benz(a)anthracene           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,050.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Carbon tetrachloride        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 37,330.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 1,2,4-Trichlorobenzene      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,310.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_03 From the confluence of Camp Lake Slough to the upper end of segment

**USE** Aquatic Life Use

| Method                       | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | 1,4-Dichlorobenzene       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4,650.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chloroform                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,630.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | DDE                       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 31.30     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Xylene                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 12,010.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Vinyl chloride            | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 11,780.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Trichlorofluoromethane    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 10,120.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,2-Dichloropropane       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 13,170.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,1,1-Trichloroethane     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 24,800.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Benzene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 45,010.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Bromoform                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,310.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Toluene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 17,290.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Tetrachloroethene         | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 10,050.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,1,2,2-Tetrachloroethane | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 3,800.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Styrene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 61,420.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Nitrobenzene              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 161.06    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Methylene chloride        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 46.52     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,1,2-Trichloroethane     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,880.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Carbon disulfide          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 780.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Endrin                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 207.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Dieldrin                  | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 61.80     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Dibenz(a,h)anthracene     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 140.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_03 From the confluence of Camp Lake Slough to the upper end of segment

**USE** Aquatic Life Use

| Method                       | Parameter           | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|---------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | DDD                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 28.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Copper              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 149.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chrysene            | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,290.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chromium            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 111.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Fluoranthene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2,230.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chlordane           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 17.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chloromethane       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 10,680.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Benzo(a)pyrene      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,450.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Arsenic             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 33.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Anthracene          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 845.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Aldrin              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 80.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Acrylonitrile       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,360.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Acenaphthylene      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 130.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Acenaphthene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 89.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,3-Dichlorobenzene | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 350.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Mercury             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 1.06      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Trichloroethene     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,070.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Silver              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 2.20      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Pyrene              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,520.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Phenanthrene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,170.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | PCBs                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 676.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_03 From the confluence of Camp Lake Slough to the upper end of segment

**USE** Aquatic Life Use

| Method                       | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Nickel                     | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 48.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Fluorene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 536.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Cadmium                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.98      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Zinc                       | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 459.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Manganese                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 1,100.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Lead                       | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 128.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachloroethane           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 13,770.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachlorobutadiene (HCBd) | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 550.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachlorobenzene (HCB)    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 240.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Heptachlor epoxide         | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 16.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Naphthalene                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 561.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 80     | 211.79    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 88     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 87     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 87     |           | 1        | 6.26        | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 90     | 474.95    | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 81     | 68.49     | 0        |             | 650.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_03 From the confluence of Camp Lake Slough to the upper end of segment

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids          | Sulfate          | 12/1/2003       | 11/30/2010    | 81     | 120.60    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 83     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 78     |           | 3        | 31.8        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 82     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 61     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 77     |           | 65       | 4.19        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 4.38     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | BHC-alpha isomer        | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDE                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.45     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDT                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | beta-BHC                | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 1.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.13     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.53     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.60     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDD                     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 9.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 250.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.14     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2109\_03 From the confluence of Camp Lake Slough to the upper end of segment

**USE** Fish Consumption Use

| Method                                | Parameter  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Chromium   | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 5.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chlordane  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.30     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.23     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.04     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 59     | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 77     | 3.71      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2110    Lower Sabinal River

**AUID**    2110\_01    Entire Water Body

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 20     | 45.22     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 29     | 554.03    | 0        |             | 700.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 27     | 94.81     | 0        |             | 200.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 28     | 47.75     | 0        |             | 100.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 26     |           | 1        | 23          | 14.10    | AD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 25     |           | 24       | 10.35       | 1.95     | AD      | CS  | <input checked="" type="checkbox"/> | NS      | nitrate    | 4a  |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/>            | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2110\_01 Entire Water Body

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 14     | 5.72      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 15     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2111    Upper Sabinal River

**AUID**    2111\_01    From the downstream end of segment to the confluence with the West Sabinal River

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 14     | 27.46     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 27     | 279.70    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 27     | 14.70     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 27     | 27.26     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 26     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 26     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 26     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2111\_01 From the downstream end of segment to the confluence with the West Sabinal River

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 25     | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 25     | 0.29      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**AUID** 2111\_02 From the confluence with the West Sabinal River to the upstream end of segment

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 27     | 279.70    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 27     | 14.70     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 27     | 27.26     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 25     | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 25     | 0.29      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2112    Upper Nueces River

**AUID**    2112\_01    From the downstream end of the segment to the confluence with Sand Ridge Creek

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 40     |           | 1        | 4.62        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 39     | 16.64     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 42     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 41     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 41     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 107    | 268.74    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 102    | 32.63     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 102    | 21.45     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 41     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 41     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 42     |           | 2        | 2.39        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 37     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2112\_01**

From the downstream end of the segment to the confluence with Sand Ridge Creek

**USE**

**Fish Consumption Use**

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 99     | 0.75      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 71     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2112\_02**

From the confluence with Sand Ridge Creek to the confluence with unnamed tributary with NHD RC 12110103000444 at point N-99.91, W29.2 just downstream of US Highway 90.

**USE**

**Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**

**Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 3      | 25.01     | 0        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**

**General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 32.20    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 9.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 6.50     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 102    | 32.63     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 102    | 21.45     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 107    | 268.74    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 14.10    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1.95     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.33     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 0.69     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**

**Fish Consumption Use**

| Method                                | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Mercury   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex     | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2112\_02**

From the confluence with Sand Ridge Creek to the confluence with unnamed tributary with NHD RC 12110103000444 at point N-99.91, W29.2 just downstream of US Highway 90.

**USE**

**Fish Consumption Use**

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 99     | 0.75      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 71     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2112\_03**

From the confluence with unnamed tributary with NHD RC 12110103000444 at point N-99.91, W29.2 just downstream of US Highway 90 to the confluence with Miller Creek.

**USE** **Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 27     | 11.44     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 29     |           | 1        | 33.5        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 28     |           | 1        | 6.4         | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 107    | 268.74    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 102    | 32.63     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 102    | 21.45     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 26     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 25     |           | 1        | 2.61        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** **Fish Consumption Use**

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2112\_03**

From the confluence with unnamed tributary with NHD RC 12110103000444 at point N-99.91, W29.2 just downstream of US Highway 90 to the confluence with Miller Creek.

**USE**

**Fish Consumption Use**

| Method                                | Parameter          | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|--------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Toxaphene          | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium           | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor         | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin           | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium           | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 71     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 99     | 0.75      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2112\_04 From the confluence with Miller Creek to the upper end of the segment

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 28     | 10.96     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 107    | 268.74    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 102    | 32.63     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 102    | 21.45     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2112\_04 From the confluence with Miller Creek to the upper end of the segment

**USE** Fish Consumption Use

| Method                                | Parameter          | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|--------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Zinc               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium           | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene          | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor         | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin           | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium           | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 71     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 99     | 0.75      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2113    Upper Frio River

**AUID**    2113\_01    From the downstream end of the segment to the confluence with Bear Creek

**USE**    Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 36     |           | 0        |             | 6.00     | AD      | NC  | <input type="checkbox"/>            | NC      |                                 |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 36     |           | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/>            | FS      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 6.00     | ID      | NA  | <input type="checkbox"/>            | NA      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.00     | ID      | NA  | <input type="checkbox"/>            | NA      |                                 |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 0      | 23.00     |          |             | 26.00    | ID      | NA  | <input checked="" type="checkbox"/> | CS      | impaired habitat                |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 0      | 33.00     |          |             | 37.00    | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired macrobenthic community | 5c  |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 0      | 49.00     |          |             | 52.00    | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired fish community         | 5c  |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 27     | 11.06     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 37     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 36     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 36     |           | 1        | 5.7         | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 48     | 252.24    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 48     | 12.19     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 50     | 19.02     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 36     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 31     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2113\_01 From the downstream end of the segment to the confluence with Bear Creek

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 37     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 35     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 46     | 0.53      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2113\_02 From the confluence with Bear Creek to the upstream end of segment

**USE** Aquatic Life Use

| Method                                | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab      | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 6.00      | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab      | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 4.00      | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 6.00      | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 4.00      | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Hexachloroethane           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 13,770.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Naphthalene                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 561.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Pyrene                     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,520.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Benz(a)anthracene          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,050.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Di-n-butyl phthalate       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 43.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Hexachlorobutadiene (HCBd) | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 550.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 1,2,4-Trichlorobenzene     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,310.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Phenanthrene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,170.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Nitrobenzene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 161.06    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Fluorene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 536.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Fluoranthene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2,230.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Dibenz(a,h)anthracene      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 140.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 1,3-Dichlorobenzene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 350.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Chrysene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,290.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Benzo(a)pyrene             | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,450.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Anthracene                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 845.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Acenaphthylene             | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 130.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2113\_02 From the confluence with Bear Creek to the upstream end of segment

**USE** Aquatic Life Use

| Method                       | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause              | Cat |
|------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|-------------------------|-----|
| Toxic Substances in sediment | Acenaphthene            | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 89.00    | ID      | NA  | <input type="checkbox"/>            | NA      |                         |     |
| Toxic Substances in sediment | 1,4-Dichlorobenzene     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4,650.00 | ID      | NA  | <input type="checkbox"/>            | NA      |                         |     |
| Toxic Substances in sediment | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 240.00   | ID      | NA  | <input type="checkbox"/>            | NA      |                         |     |
| Habitat                      | Habitat                 | 12/1/2003       | 11/30/2010    | 0      | 23.00     |          |             | 26.00    | ID      | NA  | <input checked="" type="checkbox"/> | CS      | impaired habitat        |     |
| Macrobenthic Community       | Macrobenthic Community  | 12/1/2003       | 11/30/2010    | 0      |           |          |             | 36.00    | ID      | NA  | <input type="checkbox"/>            | NA      |                         |     |
| Fish Community               | Fish Community          | 12/1/2003       | 11/30/2010    | 0      | 47.00     |          |             | 52.00    | ID      | NA  | <input checked="" type="checkbox"/> | CN      | impaired fish community |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 10     | 18.24     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 48     | 252.24    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 48     | 12.19     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 50     | 19.02     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2113\_02 From the confluence with Bear Creek to the upstream end of segment

**USE** General Use

| Method                    | Parameter     | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|---------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Chlorophyll-a | 12/1/2003       | 11/30/2010    | 13     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 35     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 46     | 0.53      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2114    Hondo Creek

**AUID**    2114\_01

From the downstream end of the segment to the confluence with and unnamed tributary with NHD RC 12110107000245 at point N-99.12, W29.38 just upstream of FM 2676.

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 23     | 15.78     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 24     |           | 2        | 32.8        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 5.9         | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 47     | 392.71    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 47     | 61.27     | 1        |             | 50.00    | AD      | NS  | <input type="checkbox"/> | NS      | chloride   | 5c  |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 47     | 66.16     | 0        |             | 100.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 23     |           | 22       | 7.1         | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 21     |           | 2        | 24.5        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2114\_01**

From the downstream end of the segment to the confluence with and unnamed tributary with NHD RC 12110107000245 at point N-99.12, W29.38 just upstream of FM 2676.

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 41     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 42     | 3.66      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2114\_02**

From the confluence with and unnamed tributary with NHD RC 12110107000245 at point N-99.12, W29.38 just upstream of FM 2676 to the upstream end of the segment.

**USE**

**Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**

**Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 18     | 41.17     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**

**General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 47     | 61.27     | 1        |             | 50.00    | AD      | NS  | <input type="checkbox"/> | NS      | chloride   | 5c  |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 47     | 66.16     | 0        |             | 100.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 47     | 392.71    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 3.87        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 25     |           | 1        | 0.56        | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 3.46        | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 42     | 3.66      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2114\_02**

From the confluence with and unnamed tributary with NHD RC 12110107000245 at point N-99.12, W29.38 just upstream of FM 2676 to the upstream end of the segment.

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 41     | 0.13      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2115    Seco Creek

**AUID**    2115\_01    From the downstream end of the segment to the confluence with an unnamed tributary at NHD RC 1211010700385 at point N-99.28, W29.42

**USE**    General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 17     | 40.35     | 0        |             | 70.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 18     | 257.55    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 17     | 11.59     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 15     | 0.22      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 15     | 0.29      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** **2115\_02** From the confluence with an unnamed tributary at NHD RC 1211010700385 at point N-99.28, W29.42 to the upstream end of the segment

**USE** **Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 14     | 9.67      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 14     |           | 1        | 5.9         | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 17     | 40.35     | 0        |             | 70.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 17     | 11.59     | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 18     | 257.55    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 17     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 17     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 17     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 17     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 15     | 0.22      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 15     | 0.29      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2116    Choke Canyon Reservoir

**AUID**    2116\_01    5120 acres near dam

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 20     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 20     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 205.91   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 2,544.21 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 175.41   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 35.40    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 968.07   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 71.65    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 23     | 0.08      | 0        |             | 4.84     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 25     | 2.03      | 0        |             | 161.38   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 25     | 1.36      | 0        |             | 19.04    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 25     | 0.18      | 0        |             | 270.92   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 25     | 0.02      | 0        |             | 1.54     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2003       | 11/30/2010    | 25     | 3.79      | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 25     | 1.65      | 0        |             | 242.58   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    General Use

| Method            | Parameter   | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|-------------------|-------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature | Temperature | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_01 5120 acres near dam

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| High pH          | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH           | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 190    | 464.86    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 92.91     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 79     | 64.07     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 43     | 0.86      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 43     | 4.11      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 25     | 81.96     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 56     | 0.04      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_02 Small north arm of lake near dam and Willow Hollow Tank

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 26     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 92.91     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Sulfate                | 12/1/2003       | 11/30/2010    | 79     | 64.07     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 190    | 464.86    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 43     | 0.86      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 25     | 81.96     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 56     | 0.04      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_02 Small north arm of lake near dam and Willow Hollow Tank

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 43     | 4.11      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_03 5120 acres in middle of lake

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 48     |           | 3        | 4.67        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 48     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 35.74    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 177.64   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 2,565.71 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 207.65   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 72.45    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 20.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 976.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 12     | 1.61      | 0        |             | 19.04    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 14     | 0.63      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 14     | 0.51      | 0        |             | 4.84     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 14     | 2.29      | 0        |             | 161.38   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 14     | 1.83      | 0        |             | 270.92   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 6      | 0.37      | 0        |             | 1.54     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2003       | 11/30/2010    | 14     | 13.09     | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 14     | 2.20      | 0        |             | 242.58   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Toxic Substances in sediment          | Manganese             | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1,100.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Silver                | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 2.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_03 5120 acres in middle of lake

**USE** Aquatic Life Use

| Method                       | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Zinc      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 459.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Nickel    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 48.60    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Mercury   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Lead      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 128.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Copper    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 149.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Chromium  | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 111.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Arsenic   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 33.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Cadmium   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 4.98     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 28     | 1.18      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 56     |           | 1        | 32.3        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 47     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 47     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 92.91     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 79     | 64.07     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 190    | 464.86    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

|             |                |                              |
|-------------|----------------|------------------------------|
| <b>AUID</b> | <b>2116_03</b> | 5120 acres in middle of lake |
|-------------|----------------|------------------------------|

|            |                    |
|------------|--------------------|
| <b>USE</b> | <b>General Use</b> |
|------------|--------------------|

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 26.70    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

|            |                             |
|------------|-----------------------------|
| <b>USE</b> | <b>Fish Consumption Use</b> |
|------------|-----------------------------|

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 43     | 0.86      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

|            |                                |
|------------|--------------------------------|
| <b>USE</b> | <b>Public Water Supply Use</b> |
|------------|--------------------------------|

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 56     | 0.04      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 43     | 4.11      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 25     | 81.96     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_04 Large north arm near mid lake and Jacob Oil Field

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 20     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 20     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Sulfate                | 12/1/2003       | 11/30/2010    | 79     | 64.07     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 92.91     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 190    | 464.86    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 43     | 0.86      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 56     | 0.04      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_04 Large north arm near mid lake and Jacob Oil Field

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 25     | 81.96     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 43     | 4.11      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_05 Southern arm near mid lake and Rec. Road 7 west of Calliham

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 20     |           | 3        | 4.64        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 20     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 20     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 190    | 464.86    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 92.91     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids  | Sulfate                | 12/1/2003       | 11/30/2010    | 79     | 64.07     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 43     | 0.86      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 43     | 4.11      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 25     | 81.96     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_05 Southern arm near mid lake and Rec. Road 7 west of Calliham

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 56     | 0.04      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_06 Western end of lake up to RR 99 bridge

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 48     |           | 4        | 4.74        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 48     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 14     |           | 1        | 2           | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 14     |           | 1        | 0.6         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Arsenic                   | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 360.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Chromium                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 1,085.48 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Copper                    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 40.39    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Lead                      | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 209.56   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Nickel                    | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 2,863.54 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Selenium                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 20.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Zinc                      | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 231.79   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Aluminum                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 991.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Chromium                  | 12/1/2003       | 11/30/2010    | 4      | 1.71      | 0        |             | 270.92   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Selenium                  | 12/1/2003       | 11/30/2010    | 4      | 1.00      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Zinc                      | 12/1/2003       | 11/30/2010    | 4      | 3.13      | 0        |             | 161.38   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Nickel                    | 12/1/2003       | 11/30/2010    | 4      | 2.13      | 0        |             | 242.58   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Arsenic                   | 12/1/2003       | 11/30/2010    | 4      | 3.43      | 0        |             | 190.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Lead                      | 12/1/2003       | 11/30/2010    | 4      | 0.50      | 0        |             | 4.84     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Copper                    | 12/1/2003       | 11/30/2010    | 4      | 0.50      | 0        |             | 19.04    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Nickel                    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 48.60    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Silver                    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 2.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_06 Western end of lake up to RR 99 bridge

**USE** Aquatic Life Use

| Method                       | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Mercury   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Manganese | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 1,100.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Lead      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 128.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Copper    | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 149.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Chromium  | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 111.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Cadmium   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 4.98     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Arsenic   | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 33.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment | Zinc      | 12/1/2000       | 11/30/2010    | 4      |           | 0        |             | 459.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 28     | 2.55      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 48     |           | 1        | 32.6        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 47     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 47     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 190    | 464.86    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 92.91     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 79     | 64.07     | 0        |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 28     |           | 1        | 0.21        | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_06 Western end of lake up to RR 99 bridge

**USE** General Use

| Method                    | Parameter     | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|---------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Nutrient Screening Levels | Nitrate       | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a | 12/1/2003       | 11/30/2010    | 28     |           | 8        | 43.29       | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 43     | 0.86      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 56     | 0.04      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 25     | 81.96     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 43     | 4.11      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2116\_07 Remainder of lake from RR 99 bridge to upper end of segment

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 190    | 464.86    |          |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 79     | 92.91     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 79     | 64.07     |          |             | 250.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 43     | 0.86      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 41     | 0.23      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 56     | 0.04      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 25     | 0.36      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 31     | 0.36      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 25     | 81.96     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 43     | 4.11      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 18     | 0.71      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**SEGID**    2117    Frio River Above Choke Canyon Reservoir

**AUID**    2117\_01    From the downstream end of segment to the confluence with Esperanza Creek

**USE**    Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 46     |           | 5        | 3.66        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 46     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 650.54   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 492.66   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Mercury               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2.40     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 93.41    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 2,249.73 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 228.87   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 6,079.23 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2003       | 11/30/2010    | 14     | 2.43      | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 1.67     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 15     | 0.26      | 0        |             | 294.61   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 15     | 2.05      | 0        |             | 20.78    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 5.51     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Mercury               | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 1.30     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 14     | 2.88      | 0        |             | 264.52   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 14     | 1.95      | 0        |             | 176.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_01 From the downstream end of segment to the confluence with Esperanza Creek

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 26     | 147.06    | 1        |             | 126.00   | JQ      | NS  | <input type="checkbox"/> | CN      | bacteria   |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 48     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 48     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 48     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 128    | 1225.60   | 0        |             | 1,700.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 117    | 346.10    | 0        |             | 620.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 118    | 183.97    | 0        |             | 380.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 44     |           | 20       | 5.24        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 44     |           | 1        | 0.81        | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 28     |           | 6        | 29.12       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 15     | 0.26      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID**

**2117\_01**

From the downstream end of segment to the confluence with Esperanza Creek

**USE**

**Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 14     | 2.43      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 15     | 85.27     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 50     | 0.16      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 111    | 6.77      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_02 From the confluence with Esperanza Creek to the confluence with Ruiz Creek

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 23     |           | 1        | 3.4         | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 10     |           | 1        | 4.7         | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method                 | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Single Sample | E. coli   | 12/1/2001       | 11/30/2008    | 19     |           | 7        | 2845.71     | 394.00   | SM      | NS  | <input type="checkbox"/> | NA      | bacteria   | 5c  |
| Bacteria Geomean       | E. coli   | 12/1/2003       | 11/30/2010    | 23     | 234.29    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5c  |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 128    | 1225.60   | 0        |             | 1,700.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 117    | 346.10    | 0        |             | 620.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 118    | 183.97    | 0        |             | 380.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 23     |           | 11       | 5.03        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 23     |           | 2        | 76.55       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 23     |           | 1        | 7.18        | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_02 From the confluence with Esperanza Creek to the confluence with Ruiz Creek

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 15     | 0.26      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 15     | 85.27     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 111    | 6.77      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 14     | 2.43      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 50     | 0.16      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_03 From the confluence with Ruiz Creek to the confluence with Live Oak Creek

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 22     |           | 5        | 3.06        | 5.00     | AD      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 22     |           | 2        | 1.8         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 2      |           | 1        | 2.5         | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 2      |           | 1        | 1.5         | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 21     | 97.13     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 22     |           | 1        | 9.1         | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 22     |           | 1        | 6.1         | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 117    | 346.10    | 0        |             | 620.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 118    | 183.97    | 0        |             | 380.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 128    | 1225.60   | 0        |             | 1,700.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 24     |           | 17       | 7.52        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 23     |           | 5        | 32.12       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_03 From the confluence with Ruiz Creek to the confluence with Live Oak Creek

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 15     | 0.26      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 14     | 2.43      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 15     | 85.27     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 50     | 0.16      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 111    | 6.77      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_04 From the confluence with Live Oak Creek to the confluence with Elm Creek

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 128    | 1225.60   |          |             | 1,700.00 | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 117    | 346.10    |          |             | 620.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 118    | 183.97    |          |             | 380.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | CS      | nitrate    |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 15     | 0.26      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 50     | 0.16      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 111    | 6.77      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 15     | 85.27     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 14     | 2.43      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_05 From the confluence with Elm to the confluence with Spring Branch

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 25     | 9.54      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 118    | 183.97    | 0        |             | 380.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 128    | 1225.60   | 0        |             | 1,700.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 117    | 346.10    | 0        |             | 620.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 27     |           | 27       | 16.6        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 26     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 15     | 0.26      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_05 From the confluence with Elm to the confluence with Spring Branch

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 111    | 6.77      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 14     | 2.43      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 15     | 85.27     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 50     | 0.16      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 21 - Nueces River

**AUID** 2117\_06 From the confluence with Spring Branch to the upstream end of the segment

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 128    | 1225.60   |          |             | 1,700.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 117    | 346.10    |          |             | 620.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 118    | 183.97    |          |             | 380.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 15     | 0.26      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Antimony  | 12/1/2003       | 11/30/2010    | 15     | 0.16      | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Arsenic   | 12/1/2003       | 11/30/2010    | 14     | 2.43      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Barium    | 12/1/2003       | 11/30/2010    | 15     | 85.27     | 0        |             | 2,000.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Cadmium   | 12/1/2003       | 11/30/2010    | 15     | 0.03      | 0        |             | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 50     | 0.16      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Lead      | 12/1/2003       | 11/30/2010    | 15     | 0.07      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Mercury   | 12/1/2003       | 11/30/2010    | 1      | 0.01      | 0        |             | 0.01     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 111    | 6.77      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |