Monitoring Efforts and *E. coli* Results
17 TMDL Assessment Units
2007  25 sites  158 samples
<table>
<thead>
<tr>
<th>AU</th>
<th>AU Description</th>
<th>Integrated Report Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>0805_03</td>
<td>TR between Cedar Creek and Fivemile Creek</td>
<td>NA NS NS NS NS NS NS NS</td>
</tr>
<tr>
<td>0805_04</td>
<td>TR between Elm Fork and Cedar Creek</td>
<td>NA NS NS NS NS NS NS NS</td>
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<tr>
<td>0822A_02</td>
<td>Cottonwood Branch from Story Road to Valley View Road</td>
<td>ND ND NS NS NS NS NS NS</td>
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<tr>
<td>0822B_01</td>
<td>Grapevine Creek</td>
<td>ND ND NS NS NS NS NS NS</td>
</tr>
<tr>
<td>0841_01</td>
<td>TR between Tarrant/Dallas county line and Elm Fork</td>
<td>NA NS NS NS NS NS NS NS</td>
</tr>
<tr>
<td>0841_02</td>
<td>TR between Village Creek and Tarrant/Dallas county line</td>
<td>NA FS FS FS FS ND NS NS</td>
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<tr>
<td>0841B_01</td>
<td>Bear Creek</td>
<td>ND ND NS NS NS NS NS FS</td>
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<tr>
<td>0841C_01</td>
<td>Arbor Creek</td>
<td>ND ND NS NS NS NS NS FS</td>
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<tr>
<td>0841E_01</td>
<td>Copart Branch Mountain Creek</td>
<td>ND ND NS NS NS FS FS FS</td>
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<td>0841G_01</td>
<td>Dalworth Creek</td>
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<td>0841H_01</td>
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<td>0841M_01</td>
<td>Kee Branch</td>
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<td>0841R_01</td>
<td>Rush Creek</td>
<td>ND ND FS FS NS NS NS NS</td>
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<tr>
<td>0841T_01</td>
<td>Village Creek</td>
<td>ND ND FS FS NS NS NS NS</td>
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<tr>
<td>0841U_01</td>
<td>West Irving Creek</td>
<td>ND ND NS NS NS NS NS NS</td>
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</tbody>
</table>
Data Summary

- Period of record in SWQMIS
  - 9/18/2000 to 11/16/2016
- All \(<\) or \(\geq\) values taken as the value
  - Did not take ½ of less than values
- Grouped all data by assessment unit
- Calculated geomean for each month
  - Geomean contains 1 to 6 values
0805 - Upper Trinity River

0805_04: TR between Elm Fork and Cedar Creek

- Geomean Criteria
- 0805_04
- Linear (0805_04)

\[ y = -0.2264x + 10189 \]
\[ R^2 = 0.0123 \]

0805_03: TR between Cedar Creek and Fivemile Creek

- Geomean Criteria
- 0805_03
- Linear (0805_03)

\[ y = 0.1077x - 2314.1 \]
\[ R^2 = 0.0009 \]
0822A – Cottonwood Branch, 0822B – Grapevine Creek

0822A_02: Cottonwood Branch from Story to Valley View
- Geometric mean criteria: $y = 0.0795x - 1546$
- $R^2 = 0.0019$

0822B_01: Grapevine Creek
- Geometric mean criteria: $y = 0.0183x - 27.304$
- $R^2 = 0.0006$
0841 – Lower West Fork Trinity River

0841_02: TR between Village Creek & Tarrant/Dallas county

- Geometric Mean (MPN/100 mL)

**Equation:**

\[ y = -0.052x + 2580.8 \]

\[ R^2 = 0.0043 \]

**Graph:**

- Data points for 0841_02
- Trend line for linear relationship
- Geometric mean criteria line

0841_01: Linear relationship

**Equation:**

\[ y = 0.0123x - 374.56 \]

\[ R^2 = 0.0005 \]

**Graph:**

- Data points for 0841_01
- Trend line for linear relationship
- Geometric mean criteria line

**Note:**
- Data spans from Sep-00 to Aug-16.
0841R – Rush Creek, 0841T – Village Creek, 0841U – West Irving Creek

**0841R_01: Rush Creek**

Geomean Criteria

\[ y = -0.0171x + 1689.2 \]
\[ R^2 = 5 \times 10^{-5} \]

**0841T_01: Village Creek**

Geomean Criteria

\[ y = 0.0568x - 1558.2 \]
\[ R^2 = 0.0029 \]

**0841U_01: West Irving Creek**

Geomean Criteria

\[ y = -0.1495x + 7848.9 \]
\[ R^2 = 0.0062 \]
E. Coli Geomean (MPN/100 mL)

12/1/2007-11/30/2014 Box Plots

Corresponds to 2016 IR Date Range

- Maximum
- 75th Percentile
- Geomean
- Median
- Geomean Criteria
- 25th Percentile
- Minimum
12/1/2009-11/30/2016 Box Plots
Corresponds to 2018 IR Date Range

E. Coli Geomean (MPN/100 mL)

Maximum
75th Percentile
Geomean
Median
Geomean Criteria
25th Percentile
Minimum
Questions?

E. COLI