Carter's & Burton Creeks Total Maximum Daily Load and Implementation Plan for Bacteria

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April 29, 2010
Location of Carters & Burton Creeks in Brazos County (showing MS4 area)
303(d) List of Impaired Water Bodies

Contact Recreation Standard: Geometric mean *E. coli* concentration not to exceed **126** cfu/100 ml

<table>
<thead>
<tr>
<th>Name</th>
<th>Count</th>
<th>Geometric Mean (col/100 ml)</th>
<th>Year Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carters Cr.</td>
<td>44</td>
<td><strong>841</strong></td>
<td>1999</td>
</tr>
<tr>
<td>Burton Cr.</td>
<td>21</td>
<td><strong>434</strong></td>
<td>2006</td>
</tr>
</tbody>
</table>

Discharges to 303(d) listed waters cannot contribute to the impairment.
Total Maximum Daily Loads (TMDLs)

- A TMDL is the maximum amount of pollutant loading a water body can receive without violating water quality standards (required under Clean Water Act)
- The TMDL document allocates the maximum allowable pollutant load among regulated and non-regulated sources in the watershed
- A plan describing the strategy to improve water quality is required as part of the TMDL
- The TCEQ approved both documents, the EPA only approved the TMDL document
TMDL Allocations

**TMDL = WLA + LA + MOS**

Wasteload allocation (WLA) = regulated sources (including MS4 discharges).

Load allocation (LA) = non-regulated sources.

Margin of safety (MOS)

Implementation Plan

Developed by the stakeholders

3 to 5 year plan of activities

Revised periodically to improve the process of improving water quality
Wastewater Treatment Facilities

- Permit limits for *E. coli* concentration
- Monitoring requirements for *E. coli*
- Requirements are broadly applied in Texas based on permitted flow and not unique to TMDLs
- Facilities in TMDL watersheds will receive *E. coli* concentration limits
- Other stakeholder initiated requirements may be in Implementation plan.
Urban and Suburban Storm Water (TPDES MS4 Permits):

- TPDES Storm water permits must be consistent with TMDL and Implementation Plan
- USEPA does not require numeric limits in MS4 permits
- Storm water quality improvement will be developed in the Implementation Plan
- Requirements will be set by stakeholders
Non-Regulated Sources:

• Involved in Implementation process
• Requirements will be set by stakeholders
Carters & Burton Creeks
Total Maximum Daily Load
and Implementation Plan:
Project Progress

Roger Miranda
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April 29, 2010
Project Status

- Technical Support Document complete (used for the creation of the final TMDL document)
- In the process of creating final TMDL document
- Initiating TMDL Implementation Plan development
Looking Ahead

• Draft TMDL document (Summer 2010)
• Draft TMDL implementation plan (August 2011)
• TMDL approval process – TCEQ & EPA
• Implementation plan approval – TCEQ only
THANK YOU

Questions?

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