CRA Limits

13 miles from Northern to Southern limits
Project Approach

**PHASE I - Completed**
- Data Collection/Research
- Public/Stakeholder Coordination
- GIS
- H&H / Water Quality Modeling

**PHASE II - Completed**
- Public/Stakeholder Coordination
- Planning/Growth Strategies
- H&H / Water Quality Modeling
- Cost Estimation (Construction)
- Permit Pre-App
- Water Quality
- ROW Analysis/Estimation
- GIS Asset Management
- Preliminary Utility Review
- Funding Analysis

**PHASE III:**
- Design and Permitting
- ROW/Easement Acquisition
- Public/Stakeholder Coordination

**Construction**

**Stormwater Master Plan/CIP**
Basin Information

Basins
- Mill Creek
- Lake Jesup
- Soldier’s Creek
- Gee Creek
- Howell Creek
Initial Areas

Five areas were approved for the initial analysis of alternatives:

Area #1 – Mill Creek
18th Street to Sarita Street
79 Parcels, 47.5 Acres

Area #2 – Airport Blvd Area
19 Parcels, 33.5 Acres

Area #3 – Five Points Area
6 Parcels, 89 Acres (By others)

Area #4 – Shepard Road
Shepard Road to SR434
181 Parcels, 123 Acres

Area #5 – Lake of the Woods
Obrien Ave to Atlantic Ave
13 Parcels, 14.9 Acres
Project Ranking Methodology

Evaluation Criteria:

• Project Cost per Acre of Treatment Area — Comparison of total estimated project costs per acre of treatment are provided excluding permitting services

• Treatment Area Provided — Treatment area provided by each alternative

• Time Required to Implement — Time it takes to implement and construct the project, including land acquisition and building demolition

• Permitting Feasibility — Difficulty in successfully permitting the construction of the project through the County

• Hydraulic Performance — Comparison of hydraulic performance of each alternative; i.e. freeboard provided

• Maintenance Considerations — Difficulty in maintaining the constructed project
Area #1 – Mill Creek

Alternatives:

1. Pond Enlargement
2. Separate Pond
3. Low Flow Treatment

Summary:

<table>
<thead>
<tr>
<th></th>
<th>Alternative 1</th>
<th>Alternative 2</th>
<th>Alternative 3</th>
</tr>
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<tbody>
<tr>
<td>Treatment Area (acres)</td>
<td>47.4</td>
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</table>
Area #2 – Airport Blvd Area

Alternatives:

1. Regional Pond
2. Regional Pond
3. Regional Pond

Summary:

<table>
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Area #4 – Shepard Road

Alternatives:

1. Regional Pond
2. Regional Pond
3. Regional Pond

Summary:

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<th>Alternative 3</th>
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Area #5 – Lake of the Woods

Alternatives:

1. Regional Pond
2. Regional Pond
3. Regional Pond

Summary:

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<tr>
<th></th>
<th>Alternative 1</th>
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<th>Alternative 3</th>
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<tbody>
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# Preferred Alternatives

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<tr>
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<th>Area 1</th>
<th>Area 2</th>
<th>Area 4</th>
<th>Area 5</th>
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<tbody>
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<td>$4,311.33</td>
<td>$92,118.06</td>
<td>$42,005.44</td>
<td>$36,459.09</td>
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</tbody>
</table>

[Maps of Area 1, Area 2, Area 4, Area 5]
Normal Development Cost Estimate

Cost Estimate Methodology:
• Analyzed development cost for an assumed one acre parcel
• Reviewed soil types and determined ground water estimates. Chose 1’ and 2’ water table for review.
• Land requirements:
  • Wet detention 20%
  • Dry retention 15%
  • Exfiltration 0%
• Underground treatment has equivalent land requirements to off site treatment. The Cost Increase compares the difference in underground versus surface treatment

<table>
<thead>
<tr>
<th>Engineer’s Opinion of Probable Cost for Standard One Acre Parcel</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>1 Foot Water Table</td>
</tr>
<tr>
<td>2 Foot Water Table</td>
</tr>
</tbody>
</table>
Cost Comparison

Maximized Development Cost Increase—
- 1 foot water table - $24,333.75 per acre
- 2 foot water table - $29,333.45 per acre

With the exception of Area 1, all areas have a cost per acre greater than the estimated normal development costs.

<table>
<thead>
<tr>
<th>Area</th>
<th>Cost per Acre</th>
<th>Comparison to Maximized Development</th>
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<tbody>
<tr>
<td>1</td>
<td>$4,311.33</td>
<td>Less Than</td>
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<tr>
<td>2</td>
<td>$92,118.06</td>
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<td>4</td>
<td>$42,005.44</td>
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</tr>
<tr>
<td>5</td>
<td>$36,459.09</td>
<td>Greater Than</td>
</tr>
</tbody>
</table>
Recommendations

Project Recommendations -
• Move forward with Area 1 Alternative 3 at $4,311.33/acre
• Forgo any improvements in Areas 2, 4, 5
• Develop a Stormwater Grant Program for CRA
QUESTIONS?