City of Santa Rosa’s Biosolids Management Program

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BACWA Biosolids Committee Meeting
September 20, 2018
The Subregional Biosolids Management System follows a three legged stool theory

- Compost – is our wintertime disposition route because it is weather independent.
- Land Application – is our dry weather route. We use biosolids from our storage facilities that was stored from November 1 to May 1 for land application. The rest of the biosolids for land application are hauled directly from the treatment plant from May 1 through October 31.
- Landfill – is used when necessary, as a pressure relief. Lystek will replace landfill as the third leg on the stool.
2008 to 2017

Tons Distribution

- North
- South
- Landfill
- Lystek
- Compost
<table>
<thead>
<tr>
<th></th>
<th>Pre CTS</th>
<th>Lost acreage NoCo</th>
<th>Gained acreage in SoCo. Did not spread Brown.</th>
<th>Lost Dickson in SoCo</th>
<th>Lost more acreage at Alpha</th>
<th>Gained Stone in NoCo. Reduced tons per acre in SoCo.</th>
<th>Gained 3 new farms</th>
<th>High Strength Waste on line</th>
<th>Purchased Twin House Farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>8872</td>
<td>7958</td>
<td>1635</td>
<td>4133</td>
<td>5060</td>
<td>2989</td>
<td>3751</td>
<td>3554</td>
<td>3446</td>
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<tr>
<td>South</td>
<td>8634</td>
<td>10432</td>
<td>15109</td>
<td>14532</td>
<td>13893</td>
<td>13722</td>
<td>10725</td>
<td>12623</td>
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<td>Landfill</td>
<td>1306</td>
<td>210</td>
<td>942</td>
<td>1220</td>
<td>47</td>
<td>116</td>
<td>1466</td>
<td>2349</td>
<td>355</td>
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<tr>
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<td>0</td>
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<td>Compost</td>
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<td>5800</td>
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California Tiger Salamanders are endangered, and are consequently a significant constraint for land application.
The existence of CTS has had significant impacts on City Owned biosolids land applications sites
• Over 1000 acres were available for land application before CTS constraints came into play.

• 188 acres are available now as CTS constraints exist today.

• The net impact is over a 70% reduction in effective land application acreage on City Owned Farms.
64% Land Application

2017 Biosolids Distribution
30490 Wet Tons

- Compost, 8578, 28%
- North, 2676, 9%
- Landfill, 1758, 6%
- Lystek, 510, 2%
- South, 16968, 55%
ALPHA Biosolids Storage Facility
7,000 Wet Tons Capacity