Population Growth and the Impact on Service Demand

Solid Waste Management Department

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Wednesday July 11, 2018
Overview of Briefing

• Long Range Planning
• City Growth
  • Housing
  • Commercial
  • Disaster Recovery
• Service Delivery
  • Route Growth
  • Service Issues
• Disaster Response
History of Solid Waste Planning

• 1990: Mayor Kathy Whitmire commissioned the Citizens Advisory Committee on Solid Waste Disposal Solutions. The City also contracted with HDR and Epsilon Engineering to guide the committee and write the report/plan.

• 2005: Mayor Bill White commissioned the Solid Waste Task Force to review Houston’s solid waste management programs and services. The study was led by Controller Annise Parker and Sanifill CEO Lorne Bain.

• 2016: Mayor Sylvester Turner authorized procuring services for a comprehensive Long Range (or Zero Waste) Plan to guide the city’s decisions for the next several years. The RFQ was issued in 2017 for firm(s) with experience in developing long range solid waste management plans for cities comparable in size and scope to Houston.
  • Selection process has been completed.
  • Recommendation to award contract to AZB Joint Venture routing to City Council for Approval this month.

7/11/2018
The Long Range Plan Goals

• The City requires a comprehensive and integrated plan that considers and addresses all components of an integrated solid waste system:
  • Looks out 20 years
  • What services should the city provide?
  • How to sustainably fund needed services and programs
  • How best to manage various waste streams (residential, multi-family, commercial, construction, organics)
Houston’s Steady Growth

- From 2007 to April 2018, the households serviced by the Department increased approximately 11.6%.
- The majority of that increase has occurred inside the IH-610 Loop.

*2018 growth percentage is only YTD and conservative*
Summary:
- From 2007 to April 2018, households serviced by the Department increased approximately 11.6%.
- The majority of the increase has occurred inside the IH-610 Loop.
- The highest percentage growth occurred in 2014. The lowest percentage growth occurred in 2010.

Areas with Highest Density Growth 2007-Present (45,541 Newly Constructed Single Family Residences)
Number of Homes per SWMD Garbage Route
Frontline Routes for SWMD Service Centers by Program Type

<table>
<thead>
<tr>
<th>Weekly Routes</th>
<th>Automation</th>
<th>Recycling</th>
<th>Yard Waste</th>
<th>Junk/Tree Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeast</td>
<td>20</td>
<td>9</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>Northwest</td>
<td>24</td>
<td>10</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Southeast</td>
<td>23</td>
<td>10</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Southwest</td>
<td>22</td>
<td>10</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>89</td>
<td>39</td>
<td>25</td>
<td>27</td>
</tr>
</tbody>
</table>

*Routes programed for 10 hour work days.
*Route performance impacted by equipment age and personnel staffing.
SWMD Breakdown Hours 2007-2018
Disaster Response 2007 - Present

• 2008 Hurricane Ike (Declared)
• 2011-2012 Drought
• 2015 Memorial Day Flood (Declared)
• 2015 Halloween Flood

• 2016 Tax Day Flood (Declared)
• 2016 Memorial Day Flood
• 2017 Hurricane Harvey (ongoing)
Major Considerations

- Current administration moving forward with proposal for updated Long Range Plan.
- Equipment and staffing should keep up with service area growth.
- Houston’s competitive posture is dependent on its ability to provide quality and expanding services.