Is this recyclable?

• Three major questions.
  – Is it acceptable at your MRF?
  – Is it able to be sorted correctly?
  – Does it have a viable end-market?
Major Commodities

1. Paper
2. Cardboard
3. Aluminum Cans
4. Steel Cans
5. Plastic Bottles & Containers
6. Rigid Plastic
7. Glass Bottles
<table>
<thead>
<tr>
<th>Material</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>Smelting and remanufacturing into aluminum products</td>
</tr>
<tr>
<td>Bimetal/Tin</td>
<td>Feedstock for new steel products</td>
</tr>
<tr>
<td>Cardboard</td>
<td>Linerboard (New boxes)</td>
</tr>
<tr>
<td>Mixed Paper</td>
<td>Retail and industrial packaging</td>
</tr>
<tr>
<td>HDPE Color</td>
<td>Bottles, pipe, and nursery pots</td>
</tr>
<tr>
<td>HDPE Natural</td>
<td>Bottles, jugs, and HDPE color products</td>
</tr>
<tr>
<td>PET</td>
<td>Bottles, carpet, fiber for clothing and strapping</td>
</tr>
<tr>
<td>Rigid Plastics</td>
<td>Car parts, pallets, buckets</td>
</tr>
<tr>
<td>PP</td>
<td>Paint buckets, crates, and plastic sacking</td>
</tr>
<tr>
<td>Glass</td>
<td>Bottles</td>
</tr>
</tbody>
</table>
Global Markets

• China banned import of certain recyclables, limiting the market options
  – 40% of global supply of recovered paper was exported to China
  – 0.5% contamination standards implemented
  – Significant inspection requirements

• Additional limits on imports in other countries
  – Plastics and fiber

• Impacts from tariffs, hauling, and demand for limited space
Local Markets

• Limited availability of truckers
  – Electronic logging device legislation
  – Low unemployment

• Strong domestic plastic markets
  – High value plastics (PET, HDPE, PP) are doing fine
How are communities adjusting?

- Program Changes
- Infrastructure Development
- Reduce Contamination
Pennsylvania

- Counties have removed paper from curbside collection
- Provide drop-off locations for residents
Northern Virginia

• Fairfax County “Big Blue”
• Several counties have removed glass from curbside collection
• Drop-off programs allow for local recycling via “Big Blue”
Maryland

• Contamination reduction efforts
  – Advertising
  – Increased communication with residents
  – Composition studies
• Removing bags from collection
Simplify the Message

• Most MRFs are processing material from more than one county

• Consider aligning messaging with surrounding counties
  – Capture the main points for the region
Simplify the Message

- Milk Jugs
- Detergent Bottles
- Shampoo Bottles
- Yogurt Containers
- Soap Bottles
- Soda and Water Bottles
- Juice Bottles
- Salad Dressing
- Peanut Butter Jars

- Plastic bottles & containers
Simplify the Message

High value items are entering the waste stream

- PET: 50,000 Tons Per Year
- HDPE Natural: 10,000 Tons Per Year
- HDPE Color: 15,000 Tons Per Year
• The value of recycling includes conserving landfill space, reduction in greenhouse gas emissions, and resource conservation

• Remember Reduce, Reuse, then Recycle
Questions?

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