A New Waste Management System for Abby's House

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Project Introduction

- The renovations at 52 High Street provide an opportunity for a new waste management system that includes:
  - Recycling
  - A More Practical and Economic Waste Hauler
  - Educational Literature
Current Waste Flow
Basic Methodology

1. Waste and Recycling Background Research
2. Staff and Resident Input
3. Research Waste Haulers
4. Interview Architects
5. Design New System
Importance of Recycling

- Great for environment (reusable materials)
- Helps reduce air and water pollution - less trash being sent to landfills
- Uses less energy and preserves natural resources
- Cost Effective

Recycling at Abby’s House

**PLEASE RECYCLE**
- PAPER
  - phone books, mail, mixed papers, office paper, envelopes, folders, newspaper & inserts, magazines, catalogs, brochures, pamphlets
- PLASTIC
  - plastic bottles, plastic jugs, plastic tubs
- CARDBOARD
  - boxboard, cereal boxes, food boxes, flattened corrugated cardboard
- METAL
  - metal food and beverage containers
- GLASS
  - glass bottles, glass jars

**DO NOT RECYCLE**
- Shredded Paper
- Wood material and products
- K-Cups
- Packaging contaminated w/food or grease
- Plastic Grocery Bags
- Plastic/Wire Hangers
- Plastic Wrappers (candy wrappers, chip bags)
- Plastic Film/Plastic Tarps
- Office Equipment
- Foam packaging and Styrofoam
- Aerosol cans
- Glass dishes/Pyrex/Ceramics
- Windows and light bulbs
- Mirrors
E.L. Harvey and Sons Recycling Plant
Residential Input

Concerns
- No Recycling: 27%
- Buildup in Rooms: 18%
- Personal Trash in Common Areas: 45%
- Ability of Residents: 9%

Suggestions
- Make Recycling Available: 82%
- Teamwork: 9%
- Waste Management Education: 9%
## Waste Haulers and Cost Analytics

- **Single Stream Recycling**
- **Financially Practical**
- **Flexible Contract**

<table>
<thead>
<tr>
<th>Company</th>
<th>Total Yearly Waste (yd^3)</th>
<th>Total Yearly Recycling (yd^3)</th>
<th>Total Yearly Waste (yd^3)</th>
<th>Total Yearly Cost</th>
<th>Scenario Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ Letourneau</td>
<td>832</td>
<td>-</td>
<td>208</td>
<td>$7,201</td>
<td>Current</td>
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</tbody>
</table>

*Waste Management charges a $75 drop off fee for dumpsters and a $150 fee for changing dumpsters.*
Architectural Design
Residential Waste Flow

- **Bathroom**: Housekeeper Responsibility
- **Resident Bedroom**: Resident Responsibility
- **Laundry Room**: Housing Manager Responsible for Disposal
- **Resident Kitchen**: Housekeeper Responsibility
- **Women's Center**: Resident Responsibility

**Chart Legend**
- Basic Waste Flow
- Recycling Flow

**Equipment**
- Recycling Dumpster
- Trash Dumpster
- E.L. Harvey and Sons (Twice Weekly)
- E.L. Harvey and Sons (Once Every Other Week)
Staff and Common Area Waste Flow
Community Cooperation

- System Failure/Success
- Extra Fees for Contamination
- Clean Common Spaces
- Split Responsibilities
Acknowledgements

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Staff and Residents at Abby’s House
Questions/Comments?
Bibliography