



City of Cleveland Heights

Safety and Municipal Services Committee

Refuse Collection Operational Analysis

Monday, October 22, 2018

Current Method of Collection

- City operated Refuse and Recycling Division providing:

“One-man” curb side collection of refuse (solid waste)

- Loose bags are placed on the tree-lawn and are manually collected
- Five weekly routes servicing 15,000 residential units
- 126 apartment buildings = additional 1,094 residential units



Current Method of Collection cont.

“One-man” curbside collection of recycled materials

- Loose placed clear and blue plastic bags containing comingled recyclables are manually collected from the tree lawn.
- Service provided to the same number of residential units as refuse collection.



Current Method of Collection cont.

Bulk refuse collection and dumpster service

- Large items and large bag stops are manually collected
- Stops in excess of four bulk items or forty bags are charged a fee
- The Division also empties 47 dumpsters at apartment buildings and commercial districts throughout the city.



Current Method of Collection cont.

Yard waste collection

- Curbside collection of source separated yard waste between the months of April through November
- One , two, or three person collection
- Material separated by residents into kraft paper bags and/or tied in 2 foot by 4 foot bundles



Current Method of Collection cont.

Transfer Station - Landfilling

- Trash is off-loaded from collection vehicles
- Trash is mechanically loaded into tractor-trailers and then hauled to the landfill



Current Method of Collection cont.

Total estimated annual operating cost = \$3.4 Million

Resident landfill fee annual cost subsidy = \$2.2 Million

Challenges with current method

- Current method of collection has potential for:

- Unsightliness of loose trash
- Nuisance animals
- Increased litter and loose debris
- Noxious odors and surface water run-off
- Increased worker's compensation claims and rate increases
- Increased maintenance costs associated with an aging fleet



Challenges with current method cont.

- Rising recycling costs w/decreased demand for products

- Low demand for paper, glass, and plastic
- New packaging materials that are not recyclable
- Recycling centers phasing out acceptance of clear and blue plastic bags



Challenges with current method cont.

- Rising costs for disposing of yard waste
 - Contamination is a serious issue
 - Trash and construction debris can be inadvertently mixed into the yard waste
 - Yard waste facilities are subject to fines for accepting yard waste with trash in it



Options implemented by other Communities

- Manual method of collection
 - Currently utilized by the City
 - 21 of 59 communities in Cuy. County utilize this method
 - Offers the advantages of:
 - Maintaining the current quality and level of service
 - Maintaining current fleet of vehicles
 - Has all of the previously mentioned disadvantages



Options implemented by other Communities cont.

- Automated method of collection
 - Current industry standard
 - 38 of 59 communities in Cuy. County utilize this method
 - Advantages of the following:
 - Increased recycling rates w/less material being diverted to the landfill
 - Cleaner streets, decreased surface water contamination
 - Increased employee productivity w/decreased worker's comp. rates



Options implemented by other Communities cont.

- Automated method of collection cont.
 - Disadvantages include:
 - High upfront costs to convert operation
 - Increased rate of recycling
 - Carts being left out after the scheduled collection day



Options implemented by other Communities cont.

- Private (contracted) hauler
 - 39 of 59 communities in Cuy. County utilize this method
 - Advantages of the following:
 - Most haulers offer automated collection
 - All operational costs are inclusive to the haulers pricing
 - Services can be tailored to meet the wants and needs of the community



Options implemented by other Communities cont.

- Private (contracted) hauler cont.
 - Some disadvantages include:
 - Decreased owner control over operations
 - Lack of flexibility on the part of the private hauler
 - Each and every service comes with a price (i.e. special collection days, business district waste cans, etc.)
 - Bulk refuse collection is limited to once a month



Additional considerations

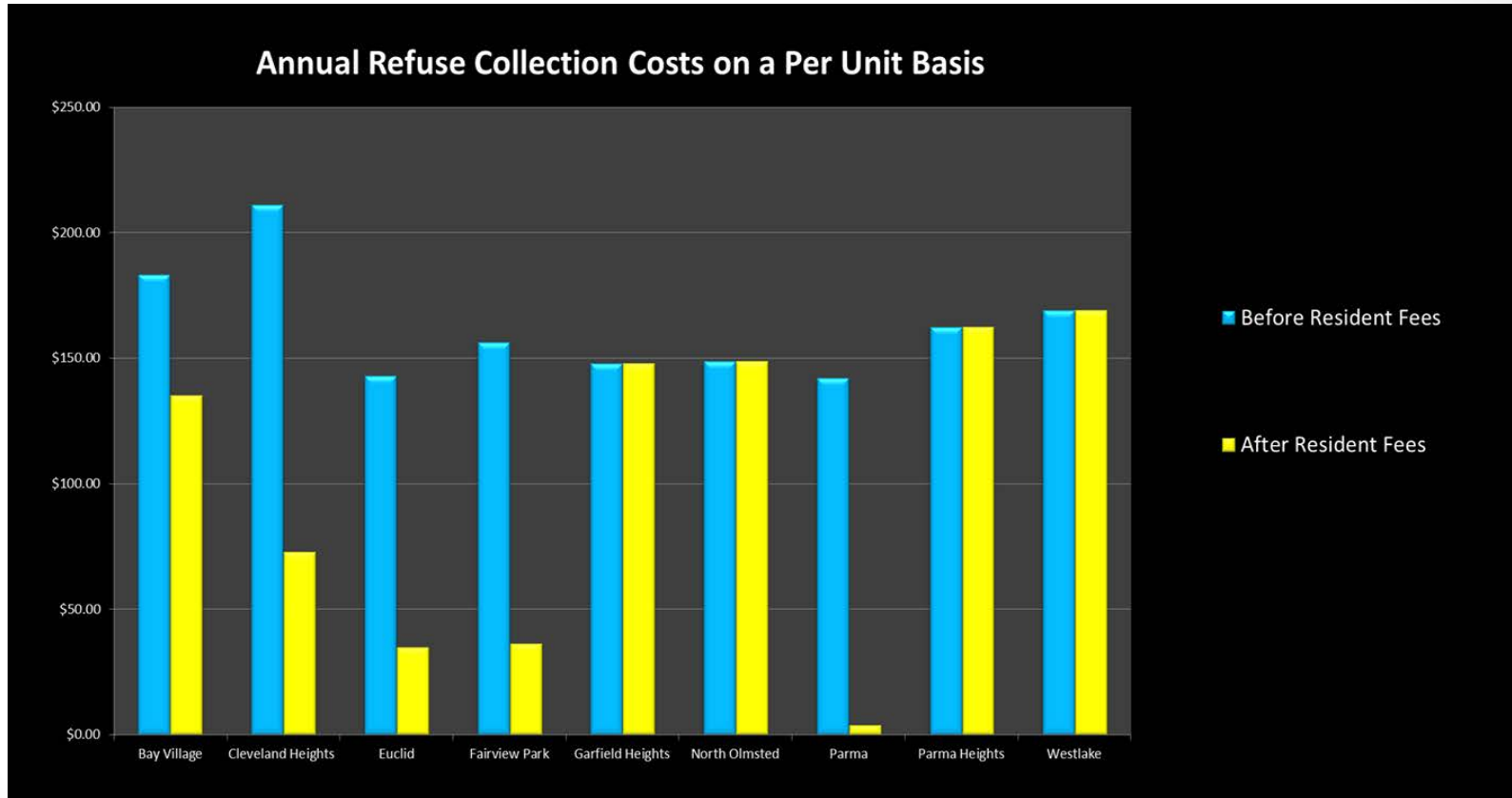
- No matter what type of service a municipality provides, it should be accompanied by a well-organized marketing and education campaign.
- The City of Cleveland Heights owns and operates its own transfer station facility (which is grandfathered in under today's EPA regulations). Discontinuing service at the transfer station would require a permanent shut-down after which it would not be able to re-open in the future.

Cost comparison

Communities with 6000 residential units or more							
Estimate 0.93 tons per residential unit per year							
Yard Waste and Recycling is included with price per unit/year							
Community	Number of Units	Rate per unit/year for collection	Estimated Number of Tons per year	Rate per ton for Disposal	Total Rate per unit/year	Resident Fee-charge back/assessment	Total Rate per unit/year after Resident fees
Bay Village	6,250	\$183.12	5,812.50	\$0.00	\$183.12	\$48.00	\$135.12
Cleveland Heights* (current costs)	16,122		14,993.46		\$210.79	\$138.00	\$72.79
Euclid	16,463	\$104.04	15,310.59	\$41.67	\$142.79	\$108.00	\$34.79
Fairview Park	7,856	\$123.00	7,306.08	\$35.77	\$156.27	\$120.00	\$36.27
Garfield Heights	10,500	\$107.76	9,765.00	\$42.91	\$147.67	\$0.00	\$147.67
North Olmsted	10,480	\$148.56	9,746.40		\$148.56	\$0.00	\$148.56
Parma	29,317	\$109.20	27,264.81	\$35.20	\$141.94	\$138.00	\$3.94
Parma Heights	6,140	\$128.40	5,710.20	\$36.52	\$162.36	\$0.00	\$162.36
Westlake	11,000	\$168.96	10,230.00		\$168.96	\$0.00	\$168.96

*Current costs for Cleveland Heights based on 2015 Full Cost analysis. Figures updated using an inflation factor.

Cost comparison cont.





Thank you