

ASSESSMENT AND REDESIGN OF RESIDENTIAL SOLIDWASTE AND RECYCLING

Update

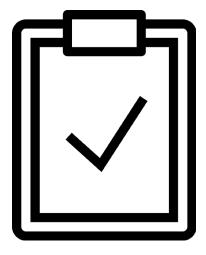
November 30

AUGUST 28TH PROJECT KICK OFF

The City of Cleveland Contracted with GT Environmental to perform a comprehensive review of the Division of Waste and its various programs

- Solid Waste Collection
- Recycling
- Bulky Waste
- Commercial Waste Collection
- And review opportunity to reduce waste via Circular Economy Options

This project is to develop a roadmap to improve operations with a timeline of September to December







KEY ACTIVITIES: CURRENT PROGRAM AND SERVICES REVIEW

- Curbside trash and recycling operations
- Staffing and absenteeism
- Recycling drop-off operation
- Multi-family housing collection
- Illegal dumping and enforcement
- Education, outreach and public communication
- Equipment utilization and maintenance
- Ordinances for solid waste operations
- Data collection and tracking







KEY ACTIVITY: COLLECTION ROUTE PERFORMANCE

- Trash, recycle, and bulk route performance data
- Conducted ride-along with route supervisor to assist in data collection.
- Time studies, set-out rates, observations, weight, and mileage tracking

y of Wee Dat Weathe	e: Vehicle #: er: Driver Name:	% full at start: Number of Households on Route: Gallons of Fuel Used: of Crew Members (Including driver):			
		1 st Load ^{2nd} Load Time Mileage Time Mileage			
	Activity Clock in:	Time	Mileage	Time	Mileage
	Pre-trip start time				
	(inspect, paperwork, meeting, etc.):				
	Leave depot				
	First stop:				
	Last stop:				
	Arrive at Ridge Road Transfer scale:		i i		i
	Disposal Weight:		-		
	Leave Ridge Road Transfer:				
	Number of Houses with Collected Cart				
	Number of Houses with NO Carts on Curb				
	Number of Houses with NO Carts on Curb Number of houses with extra/second cart				
	Number of House need crew member out of truck				
	Number of houses with bulk materials				
	Arrive back at depot:				
	Post-trip start time (refuel, inspect, paperwork, etc.):				
	Clock-out:				
Cellaneous Time:		End Time: End Time: End Time: End Time:			
	I driver help on another route? Y N Route #: Start Time: Reason End Time:				
1. —	ps (30 consecutive time samples) 6. 11. 7. 12. 8. 13. 9. 14. 10. 15.	16. 17. 18. 19.			26. 27. 28. 29.



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KEY ACTIVITY: BULK WASTE COLLECTION PROGRAM ANALYSIS

- Comparable surveys sent out to solicit bulk waste best management options
- Current procedures for Bulk (outside of what is in ordinance)
- Current challenges for Bulk collection
- Transfer station utilization for public (4 times a year free disposal by residents)







KEY ACTIVITY: AUXILIARY SERVICES REVIEW

- Commercial services
- Special collections
- Electronic waste round up, including computers
- Hazardous waste, including paint and chemical round up
- Paper shredding service
- Tires
- Organic waste reduction
- Yard waste and leaves
- Food waste

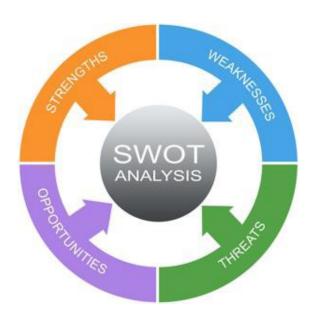






KEY ACTIVITY: STRATEGIC PLANNING SESSION

- SWOT Process
- Conducted with separate sessions with a selection of:
 - Collection crews
 - Supervisors
 - Route Forman
 - Management, Administration & Sustainability







KEY ACTIVITY: RESIDENTIAL ENGAGEMENT PROCESS

- 3 Focus groups (8-12 per group)
- Virtual focus groups occurred October 13-15th







KEY ACTIVITY: CITY COUNCIL ENGAGEMENT

- Met with council leadership to explore views of the Division of Waste
 - Strengths
 - Weaknesses
 - Opportunities
 - Threats







KEY ACTIVITY: RECYCLE MARKET ANALYSIS AND COMMUNITY RATE STUDY

- Researched historical commodity prices in Midwest
- Researched local and regional recyclable material processors and end users
- Plan to determine how attractive Cleveland metro area may be to recyclable material processors and end users for development (Circular Economy considerations)
- Research includes nationwide cost per household

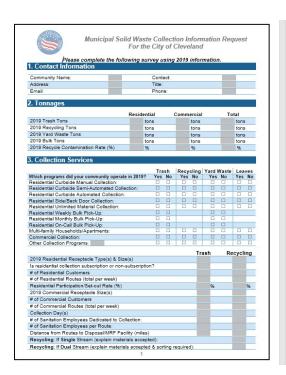


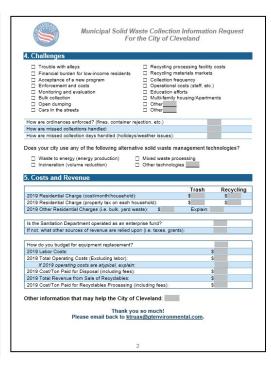




KEY ACTIVITY: COMPARABLE COMMUNITY SURVEY

Surveys sent to several communities





Akron OHCanton OHChicago **Des Moines** IA Kansas City MO KY Lexington Minneapolis MN Pittsburgh PA St Louis MO OHDayton **Grand Rapids** MI Louisville KY Milwaukee WI **Nashville** TN Madison WI Memphis TN





KEY ACTIVITY:- CURBSIDE PROGRAM OPTIONS

- Analysis will include but not limited to:
 - Cost per household services
 - Cost per ton managed
 - Recycling diversion percentage
 - Tons landfilled
 - Tons recycled
 - Participation rates







DRAFT REPORT-DECEMBER 2020

Report started



2020 Assessment and Redesign of Residential Solid Waste and Recycling System



Prepared by



December 31, 2020





OTHER ITEMS OF NOTE

- ORDERED \$50K WORTH OF WASTE CONTAINERS TO ADDRESS CURRENT IMMEDIATE BACKLOG OF REQUESTS
- LARGER ORDER OF \$265,000 IN PROCESS AND WILL BE DELIVERED FOR 2021





QUESTIONS?





