

# CRA ANNUAL REPORT

## 2024

PREPARED BY  
THE CITY OF TROY RECYCLING DEPARTMENT

# Comprehensive Recycling Analysis – 2024 Report

## Introduction

As in the prior reporting years, this Comprehensive Recycling Analysis (CRA) report (as required by 6 NYCRR 360.11) (d) will serve as an overview of the City of Troy initiatives (and their respective results) in the areas of resource management, recycling, diversion, community engagement, and solid waste handling. This report is for the calendar year of 2024.

This document is meant to be an interactive and “living” document for the use of the community and City, not merely to fulfill reporting requirements for New York State. It will continue to be a roadmap through which the City’s decisions are to be made, as well as an opportunity for the city to gauge the effectiveness of our objectives and intentions. The updated timeline, reflecting the accomplishments for 2024 associated with these objectives is included in City’s submission (Annex 1).

The City of Troy continues to manage and maintain its recycling operations with the goal of maximizing materials reuse and recycling and the diversion of materials from disposal. This report will summarize how the city worked toward these goals in 2024 and plans to continue to do so in 2025 and beyond.

The primary areas of focus from past reports are delineated below and updated in this report:

1. Establish a recycling center
2. Establish organics/composting facility
3. Develop re-use center
4. Establish clear collection procedures and participation levels
5. Education and outreach
6. Maintain data collection and reporting
7. Create deconstruction permit and education/outreach plan

## Objective 1: Establish a recycling center

The Alamo/TRMF was officially purchased back from the Troy Land Development Corporation (TLDC) in July of 2023. The Recycling Department hopes to revisit discussions on revitalizing the facility with a physical structure/workspace for City employees. Additionally, the facility needs resurfacing.

## Objective 2: Establish organics/composting facility

A curbside food scrap diversion program was initiated in September 2021 through a cooperative agreement awarded by the United States Department of Agriculture (USDA) and National Resources Conservation Service (NRCS). The agreement was for a pilot program over two years; it was executed in three phases to gradually increase residential curbside food scrap diversion within the pre-approved budget. The city used local food scrap hauler FoodScraps360 to collect and transport food scraps and other accepted materials. FoodScraps360 had an existing arrangement with the Town of Bethlehem, where they brought the materials to be composted at the Town's composting facility. The city continues to evaluate and explore the opportunity to establish a composting facility within city limits.

The curbside food scrap diversion pilot program concluded in late September of 2023. In total, 50.54 tons of food scraps and accepted materials were collected. The city is exploring the option of starting the food scrap diversion program again in 2025.

In addition, FoodScraps360 operates a drop off site at the Troy Farmer's market. Although the compost is not processed in the city of Troy they collect and divert about 600-800 pounds of food scraps each week (approximately 15 tons annually).

## Objective 3: Develop re-use center

The idea of developing a re-use center in the city remains an objective. However, with the recruitment of a recycling coordinator since early 2024, the position was not filled in 2024 and there has been no progress on meeting this objective. The city did participate in regional discussions about creating a Reuse Center in the Capital District. Filling this position is essential to moving forward with this objective.

## Objective 4: Establish clear collection procedures and participation levels

### Citywide Trash Barrel Program

[Home](#) > [News Flash](#)

[City News](#)

Posted on: April 17, 2023

**Troy Launches "Clean Streets" Trash Barrel Program Today**

**TROY, NY** – The City of Troy announced today that residents will begin receiving new trash barrels free of charge through the city's "Clean Streets" initiative. The high-quality barrels will be delivered through April 29th and will provide years of service that will reduce problems with litter and vermin. The program will also reduce the risk of labor-related injury to the city workforce, and was made possible in part with funding through the American Rescue Plan (ARPA), signed into law by President Joe Biden on March 11, 2021.

"Providing a clean, safe and healthful environment is one of my top priorities as mayor, and it was important to me that the Clean Streets program works toward this goal in an equitable way," said **City of Troy Mayor Wm. Patrick Madden**. "The program is delivering barrels to all neighborhoods, including neighborhoods previously underserved by the city, because universal access to high-quality, lidded barrels is a first step in addressing litter problems in every Troy and Lansingburgh neighborhood."



Please note these dimensions are for demonstration purposes only. Actual dimensions may vary slightly due to different coloring and signage.		
WIDTH	32.5"	82.5cm
DEPTH	23"	58.4cm
HEIGHT	39.75"	100.5cm
LID DIAMETER	46"	116.8cm
AVAILABLE COLOR	10.57 lbs	37.9kg

**Figure 3: the City of Troy's announcement for the citywide trash barrel program, "Clean Streets."**

The city rolled out a citywide trash barrel program to all residents with municipal collection service. This program addressed several long-standing priorities: reducing wind-blown litter, reducing pest and vermin access, and making sure residents had standardized containers. This program was greatly supported by

American Rescue Plan Act (ARPA) funding. The original roll-out was planned to be a right-sized container approach where residents could choose the appropriate sized container out of three sizes (96-gallon, 64-gallon, and 32-gallon). Due to budgetary restraints and logistical challenges, the implemented program was modified; two sizes (96-gallon or 32-gallon) were offered to residents with no price differential.

Regarding logistics, the majority of the roll-out was successful. There were pre-existing City-issued barrels for around 3,000 residents that needed to be accounted for in the final drop-off list. Errors in the list led to delayed container swap outs after the vendor's pre-scheduled drop-off days. Despite this, the city received many positive comments from residents on the initiative. Even into 2024, residents have provided feedback that it has helped "clean the streets."

### Intermunicipal Household Hazardous Waste Disposal Event Series

Regarding special collection events, the City of Troy once again partnered with Rensselaer County and the Town of Bethlehem for an inter-municipal household hazardous waste disposal event series. In 2024 there were four events: one in Troy in May, one in Schodack in July, one in Brunswick in September, and the last in Bethlehem in October.

Troy event:

- 180 total attendees, 97 from Troy

Schodack event:

- 211 total attendees, 15 from Troy

Brunswick event:

- 204 total attendees, 26 from Troy

Bethlehem event:

- 248 total attendees, 4 from Troy



*Figure 4: a social media post promoting the City of Troy's hosted household hazardous waste disposal event.*

Event attrition is once again an area the city is looking to improve. There are several potential reasons for the levels were high: time slot emails, event access, and differences in municipal solid waste programs. To help control traffic for the event, the city assigns time slots via email (or by phone if requested). The Recycling Department asks residents to double-check spam and junk folders and to cancel in advance if they know they are unable to attend. Another potential reason is the increased accessibility/convenience. For Troy residents, household hazardous waste disposal events have been a regularity since 2019. Rensselaer County municipalities have not had the same opportunity for hosting these events due to insufficient staff support and financial barriers; as a result, their attrition levels are significantly lower. The last potential reason for high attrition levels is the difference in each municipality's solid waste collection program. The City of Troy has no price differential for trash barrel sizes. While residents are encouraged to divert as many materials as possible, there is not a financial incentive for residents to do so. For the program partners, the majority have private haulers which use tiered pricing for their containers.

The 2024 memorandum of agreement between the three entities (City of Troy, Town of Bethlehem, and Rensselaer County) is complete and approved, continuing the partnership for its third year.

An additional special collection event for paint recycling was discussed at length during 2023. During the household hazardous waste event series, the City of Troy wanted to ensure that any paint collected at the HHW events was being kept in New York State if possible. This is to ensure a lower carbon footprint from transportation of the materials, as well as offering them the opportunity to be recycled instead of used for waste.

Green Sheen, a local paint recycler under PaintCare, is looking to process the materials in-house. To do so, they need to collect a higher volume of the materials at special collection events. The Recycling Coordinator reached out to Rensselaer County to accomplish multiple objectives at once: host a paint recycling collection event and, hopefully, help increase the volume Green Sheen is collecting so the materials can be recycled locally.

There were no paint recycling events scheduled for 2024.

However, a household hazardous waste collection day was conducted at Hudson Valley Community College in April 2024 that involved GreenSheen New York and the collection of old paint. According to GreenSheen, 500-600 vehicles participated, 77 Cubic Yard/ Gaylord Boxes were collected, 59,534 lbs of Water/ Acrylic/ latex-based paint and 5,697 oil based paint were collected. A similar event is scheduled for April 2025.

#### **Other Diversion Data**

The Troy Resource Management Facility has bays for the following materials streams: leaves and yard materials; street sweepings; food scraps; tires; metals; and electronics. Provided below are the 2024 totals for each category:

- Leaves and yard materials: 1,000 tons
- Street sweepings (screened and diverted): N/A (holdover and screen/use in 2025)
- Tires: 2.48 tons
- Metals: 56.48 tons
- Electronics: 4.3 tons

The only materials that residents can bring to the facility during set hours are leaves/yard materials. The remaining streams in this list are outputs from City operations/programs.

### **Objective 5: Education and outreach**

In 2024, due to the City's inability to fill the positions for the City Recycling Coordinator and Recycling Specialist, additional education and outreach efforts have not been initiated. The city continues to maintain the website to explain the recycling program to residents and answer questions from calls to the Sanitation Department.

#### **Involvement in Statewide Association, NYSAR<sup>3</sup>**

The City's participation in the statewide NYSAR<sup>3</sup> (NYS Association of Reduction, Reuse and Recycling) committees will continue when the recycling coordinator and recycling specialist positions are filled.

#### **Social Media and The City Website**

The recycling department's website is maintained and questions from the public are answered by the Sanitation Department. The previously designed "resources" page on the city website includes educational graphics, diversion program pamphlets, and other materials. Any Troy-based entities are welcome to download and use the information on the page. There are digital viewing and printable copies of all files.

- [Electronics Recycling Events](#)
- [Food Scrap Drop-off](#)
- [Household Hazardous Waste Events](#)
- [Paint Recycling](#)
- [Rechargeable Battery Drop-off](#)
- [Textile Reuse & Recycling Drop-off](#)
- [Recycling Guide](#)
- [Recycling Matters Newsletter](#)
- [Resources](#)

Home > Departments > Public Works > Sanitation > Recycling > Resources

## Resources

Browse and download relevant resources to share with neighbors, businesses, and organizations.



# Browse. Download. Share!

**Figure 12:** A snippet of the City's "resources" web page.

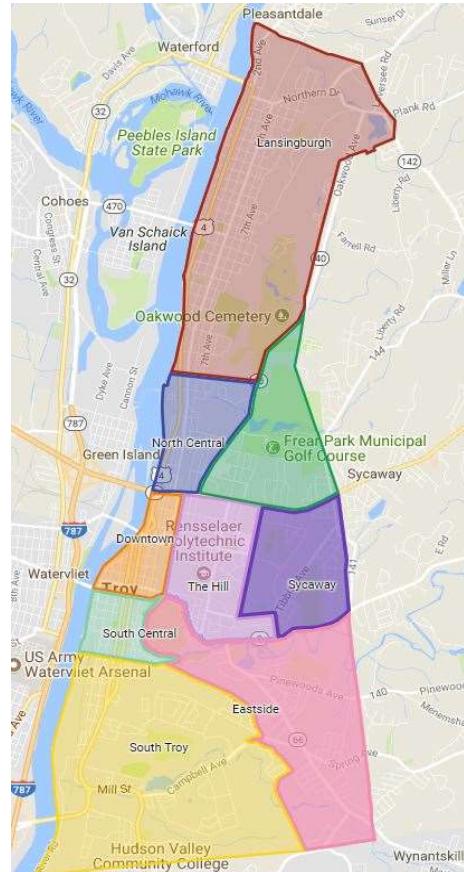
## Objective 6: Increase data collection and reporting

**Figure 13:** A map of Troy's vibrant neighborhoods

### Trash Audit Data

Since 2021, the city has been interested in conducting a trash audit to better understand the composition of the City's municipal solid waste (MSW). Originally, the audit was to be in collaboration with SUNY Stonybrook, as a professor at the college is conducting them around the state. It was determined that a partnership with them would not be feasible as the city did not have the necessary personnel to support. In 2023, the city started conversations with the Recycling Partnership, who indicated that they could provide personnel both to collect materials and sort them. In the context of the food scrap diversion objective, an audit could help determine the feasibility of a permanent citywide food waste reduction program and how much food waste could potentially be diverted from disposal. However, the city was unable to coordinate a date with the Recycling Partnership but will try again in 2025 after the recently vacated recycling coordinator position is filled.

In the process of collecting 2024 data for this report, the city identified a data gap of approximately 286 tons in diversion tonnage (step 5, pg 21). This is due to the lack of staff in the Recycling department itself. There was no guidance or succession plan set up for data collection and documentation following the previous employee's departure from the city. An audit would help increase the understanding of the city's waste stream as well as create a standardized method of collecting data for more accurate future reports.



## Objective 7: Create deconstruction permit and education/outreach plan

In the absence of a recycling coordinator and recycling specialist the city has not been able to make any further progress on this initiative.

### Annex 1a: The Comprehensive Recycling Analysis timeline, with progress up to the end of 2023 continued on next three pages).

City of Troy Solid Waste Management Plan (2019-2028) - 10 Year Implementation Schedule					
Objectives and associated tasks	2019	2020	2021	2022	2023
<b>Recycling Programs</b>					
Monitor National Recycling Situation			Ongoing		
Recycling Contract			renewed		5-year extension w/CW
Annual Recycling Update	Update	Update	Update	Update	Update
Textile Recycling			In progress	Pilot with PS2	PS2, Boys/Girls Club L'burgh
partner with K-12 schools to develop student liaisons				RPI	RPI: 4 bins
create pilot program w/colleges for textile recycling expansion					
Household Hazardous Waste					
develop comprehensive RFP for HHW bidding process	complete				
set up RFP review board	complete				
Increase Annual Events	complete				
2 events per year	complete				
4 events per year		Inter-municipal partnership - complete			added Rensco to partnership
Recycling/drop-off Center					
PILOT - Open Alamo April - Oct.		Report	open Thursdays 9a-1p	added Tuesdays 9a-1p	
Ongoing facility upgrades (include in 5-year Capital Planning)		completed		completed	
Alamo Site Buy or Lease			Process started	Transfer expected	purchase complete 6/23
Open Drop Center (Year Round)			completed		
Expansion of hours					
Additional diversion events					
Electronic waste events			completed		Ongoing
Paint-only diversion events					
<b>Education &amp; Outreach</b>					
Develop systems/strategies					
prioritize tasks and objectives				Ongoing	
Recycling Coordinator				Ongoing	
"Recycling Matters" (monthly online newsletter)				Ongoing	
Update forms (bulk pickup, annual solid waste fee) to reflect current info			Completed		
Increased Event Offerings (other types of diversion events)			Goal achieved		
partner with schools/colleges to brainstorm opportunities				Ongoing	
Improved visibility of shared information				Ongoing	
All portions of DPW pages of city website updated/linked to ReCollect			ReCollect completed	Anticipated changes	
Website maps and links also cross-linked to ReCollect			completed		Improvements and upgrades
Develop phone-tree for DPW/DGS to reach correct personnel	complete			Update	
Regular neighborhood meeting visits/updates				Ongoing	
Partner with RPI, Sage and New Visions to create curricula and databases		in process	completed		
Utilize Rubin Grant to develop community outreach toolkit	complete				received additional funds
Outreach to public, private and charter schools to provide access to materials					Ongoing
Do waste audit for presentation to City Council			Started		
Do community-based waste audits			Started	In process	
Design and order bin stickers for recycling bins	complete				updated and ordered
Host "online store" for composter and rain-barrel orders		Ongoing			canceled: cost increase
Design and order "food scrap" fridge magnets	complete				updated and branded
Create social media account(s)			complete	Facebook	Facebook
Develop departmental branding and collateral material			complete		Ongoing
Design and order reusable bags (5-cent bag tax revenues)	complete		complete	Quarterly orders	Quarterly orders
<b>Hauler Licensing</b>					
Research other county/municipal permit applications	Complete				
Hauler Permit developed and legislation approved		complete			
Notification to Haulers		complete	Standard procedure created		Updates made
Permit stickers designed and ordered	complete		June, annually		
Permit requests from haulers	complete				
Second request permit application completion				September, annually	
Revise permit to reflect fee-uniformity	complete				
Notify haulers of approval/send permit sticker	complete				As applications are approved
Quarterly reports on hauler statuses (in violation or no)			Ongoing		
Assign program maintenance to account clerk					complete
Annual Notice/Data Requests			Ongoing		
<b>Organics Recovery</b>					
Food Waste/ Source Separated Organics					
Pilot Compost program with other municipalities/private hauler				Ongoing	
Stumps re-located from Alamo to alternate site				complete	
Fully implement compost program (citywide)					Anticipated roll out
Partner with food-gleaning agencies to divert edible food					
Partner with private or non-profit entity to develop community food-service program					
Yard Waste					
Create separate bays for storage at Alamo		complete		completed	Hale (erosion barrier)
Develop regular schedule for maintenance of areas			Ongoing		
Separate out leaves (no charge to city from vendor to haul out)		complete		outsource N/C	
Screen Material			Ongoing		
Open Alamo for Private Yard Waste drop-off and mulch pickup			Pilot		Open
Registered Mulch/Re-use/Transfer Facility					
Permits for all functions of Alamo from DEC			complete		
Determine viability of additional organics materials handling	Research			relocate materials: Hale	complete

<b>Incentive Based Pricing</b>		Ongoing				
		Research	complete			
<u>Solid Waste Management Fees</u>			complete			
Determine area for "fair share" business/multi-unit program			complete			
Set pricing for fair-share and send out notification/information			complete			
Hold community meetings to inform property-owners for Q and A			complete			
Roll out fair-share program			complete			
<u>Hybrid PAYT</u>						
Research types and applicability		research	research			
Implement Hybrid PAYT				implement?		
<u>Evaluation</u>					report	
<u>Bulk Pricing</u>						
Implement Clear Bulk Waste Pricing			complete			
Furniture Donation				Ongoing		
Report			Report			
<b>Waste Disposal</b>						
<u>Trash Disposal</u>				Ongoing		
New Equipment Investment						
Order SSR signs for trucks to properly identify when MSW trucks re-deployed						
Provide residents with larger SSR bins (16g and 22g available)					Ongoing	
Provide SSR receptacles with lids for residents						
Provide uniform barrels for waste disposal to all residents with municipal pickup					completed	
<u>Bulk Disposal</u>				Ongoing		
New Equipment Investment						
Integrate into specific pickup day (route-based) structure						
Access to information (pickup maps, etc)			complete			
<u>Street Sweeps Disposal</u>						
Screen and divert maximum possible for erosion prevention (PREBUD)			complete		complete	complete
<b>Enforcement Programs</b>						
<u>Litter Patrol Officer</u>			complete			
Add 2nd LPO			complete		3rd LPO added	
Provide in-house work-space for LPO's at City Hall				complete		
<u>Sanitation Workers</u>						
Utilize contamination stickers and hang-tags for doors				Ongoing		
<u>Account Clerk</u>						
Provide billing and invoicing structure for violations			complete			additional account clerk
<u>Visibility of addresses (safety and accountability)</u>						
Research Cost of Implementation						
Implement across City						
Develop sufficient and satisfactory waste/recycling plan with zoning project applications					complete	
Require enforcement of waste/recycling plan for approved properties						
Solid Waste Advisory Board (after 2019-2028 plan approval)			complete			
Assist in New Plan (2029 Publication)						
Assist Recycling Coordinator with annual report to Mayor						
<b>Data Collection &amp; Evaluation</b>						
<u>Collect Missing Data</u>				Ongoing (include in first year a more detailed timeline)		
Update Plan with New Data			complete			
Decide on and commit to platform as clearinghouse for data						
Create accurate databases of various informational resources						
GIS mapping (routes, violations, recycling bins, etc.)						
Create and maintain monthly MSW and SSR data from County Waste				Ongoing		
Develop large-scale generator letter			complete			
Deploy generator letter with response requirement						
Track quantities of materials diverted from waste stream				Ongoing		
<u>Regional Approach</u>						
Research Possible Regional Options						
Join or Create a Planning Unit or materials handling authority						
<b>Flow Control</b>				Ongoing		
<u>Maintain Recycling Mandates</u>						
Private Sector Opportunities						
RFP for Services						
RFP for Solid Waste Services for Comparison			2x during 10-years			
Explore ReUse Partnership Opportunities					begin	
<b>C&amp;D Demolition, Reuse &amp; Recovery</b>						
<b>Research Deconstruction policies, ordinances and protocol</b>					begin	continue research
Host Deconstruction Summit					complete	
Participate in regional and statewide deconstruction discussions and events					Ongoing	
Generate a Deconstruction Permit						
<u>City Deconstruction REP</u>						
Create an RFP for deconstruction						
Issue RFP for Demolition Jobs						
<u>Business and homeowner Education</u>						
<u>Salvage Yard</u>						
public-private opportunity research						
Salvage yard Opportunity Update						
Recycling Clearinghouse				Ongoing		
Online Database of Recycling and Reuse services						
<b>ReUse Programs</b>				Ongoing		
<u>ReUse Center</u>						
Household Donation (private/non-profit) Options					Report	
Research Center/Partnership Plan					Report	
Plan Update					In process	
Affiliate with existing partners and agencies						
<b>Thermal Treatment Technologies</b>						
No Plans						
<b>Waste Reduction Programs</b>						
<u>Green Procurement</u>						
NYC DEC Green Procurement Law-current				Ongoing		

**Annex 1b: The Comprehensive Recycling Analysis timeline, with projected progress up to the end of 2028  
(continued on next three pages).**

City of Troy Solid Waste Management Plan (2024-2028) - Implementation Schedule						
Objectives and associated tasks	2024	2025	2026	2027	2028	
<b>Recycling Programs</b>						
<u>Monitor National Recycling Situation</u>		Ongoing				
Recycling Contract	5-year extension w/CW					
Annual Recycling Update	Update		Update		New Plan	
<u>Textile Recycling</u>						
partner with K-12 schools to develop student liaisons	On Hold					
create pilot program w/colleges for textile recycling expansion	No Action					
<u>Household Hazardous Waste</u>						
Increase Annual Events		Evaluation				
2 events per year						
4 events per year	1 event					
<u>Recycling/drop-off Center</u>						
PILOT - Open Alamo April - Oct.	Open					
Expansion of hours						
<u>Additional diversion events</u>		Ongoing				
Electronic waste events	Complete	Ongoing				
Paint-only diversion events						
<b>Education &amp; Outreach</b>						
<u>Develop systems/strategies</u>						
prioritize tasks and objectives		Ongoing				
Recycling Coordinator		Ongoing				
"Recycling Matters" (monthly online newsletter)		Ongoing				
Increased Event Offerings (other types of diversion events)	Added paint collection					
partner with schools/colleges to brainstorm opportunities		Ongoing				
Improved visibility of shared information		Ongoing				
All portions of DPW pages of city website updated/linked to ReCollect	On Hold					
Website maps and links also cross-linked to ReCollect		Improvements and upgrades				
Regular neighborhood meeting visits/updates		Ongoing				
Outreach to public, private and charter schools to provide access to materials		Ongoing				
Do waste audit for presentation to City Council	On hold					
Do community-based waste audits	On hold					
Design and order bin stickers for recycling bins	updated and ordered					
Host "online store" for composter and rain-barrel orders	Cancelled					
Create social media account(s)	Facebook					
Develop departmental branding and collateral material		Ongoing				
Design and order reusable bags (5-cent bag tax revenues)	Quarterly orders					

<b>Hauler Licensing</b>						
<u>Research other county/municipal permit applications</u>						
<i>Second request permit application completion</i>						
<i>Quarterly reports on hauler statuses (in violation or no)</i>						
<i>Assign program maintenance to account clerk</i>						
<i>Annual Notice/Data Requests</i>						
<b>Organics Recovery</b>						
<u>Food Waste/ Source Separated Organics</u>						
<i>Fully implement compost program (citywide)</i>						
<i>Partner with food-gleaning agencies to divert edible food</i>						
<i>Partner with private or non-profit entity to develop community food-service program</i>						
<u>Yard Waste</u>						
<i>Develop regular schedule for maintenance of areas</i>						
<i>Separate out leaves (no charge to city from vendor to haul out)</i>						
<u>Screen Material</u>						
<i>Open Alamo for Private Yard Waste drop-off and mulch pickup</i>						
<u>Registered Mulch/Re-use/Transfer Facility</u>						
<i>Permits for all functions of Alamo from DEC</i>						
<u>Incentive Based Pricing</u>						
<u>Solid Waste Management Fees</u>						
<u>Hybrid PAYT</u>						
<i>Research types and applicability</i>						
<i>Implement Hybrid PAYT</i>						
<i>Evaluation</i>						
<u>Bulk Pricing</u>						
<u>Furniture Donation</u>						
<u>Report</u>						
<b>Waste Disposal</b>						
<u>Trash Disposal</u>						
<i>New Equipment Investment</i>						
<i>Order SSR signs for trucks to properly identify when MSW trucks re-deployed</i>						
<i>Provide residents with larger SSR bins (16g and 22g available)</i>						
<i>Provide SSR receptacles with lids for residents</i>						
<u>Bulk Disposal</u>						
<i>New Equipment Investment</i>						
<i>Integrate into specific pickup day (route-based) structure</i>						
<i>Access to information (pickup maps, etc)</i>						

<b>Enforcement Programs</b>					
<u>Sanitation Workers</u>					
<i>Utilize contamination stickers and hang-tags for doors</i>		Ongoing			
<u>Account Clerk</u>					
<i>Visibility of addresses (safety and accountability)</i>					
<u>Research Cost of Implementation</u>					
<i>Implement across City</i>					
<i>Require enforcement of waste/recycling plan for approved properties</i>					
<i>Assist in New Plan (2029 Publication)</i>					
<i>Assist Recycling Coordinator with annual report to Mayor</i>					
<b>Data Collection &amp; Evaluation</b>					
<u>Collect Missing Data</u>					
<i>Update Plan with New Data</i>		Ongoing (include in first year a more detailed timeline)			
<u>Create accurate databases of various informational resources</u>					
<i>GIS mapping (routes, violations, recycling bins, etc.)</i>					
<i>Create and maintain monthly MSW and SSR data from County Waste</i>		Ongoing			
<i>Deploy generator letter with response requirement</i>					
<i>Track quantities of materials diverted from waste stream</i>		Ongoing			
<u>Regional Approach</u>					
<i>Research Possible Regional Options</i>					
<i>Join or Create a Planning Unit or materials handling authority</i>					
<b>Flow Control</b>					
<u>Maintain Recycling Mandates</u>		Ongoing			
<i>Private Sector Opportunities</i>					
<i>RFP for Services</i>					
<i>RFP for Solid Waste Services for Comparison</i>					
<i>Explore ReUse Partnership Opportunities</i>					
<b>C&amp;D Demolition, Reuse &amp; Recovery</b>					
<b>Research Deconstruction policies, ordinances and protocol</b>					
<i>Participate in regional and statewide deconstruction discussions and events</i>		Ongoing			
<i>Generate a Deconstruction Permit</i>					
<u>City Deconstruction RFP</u>					
<i>Create an RFP for deconstruction</i>					
<i>Issue RFP for Demolition Jobs</i>					
<u>Business and homeowner Education</u>					
<u>Salvage Yard</u>					
<i>public-private opportunity research</i>					
<i>Salvage yard Opportunity Update</i>					
<u>Recycling Clearinghouse</u>					
<i>Online Database of Recycling and Reuse services</i>		Ongoing			
<b>ReUse Programs</b>					
<u>ReUse Center</u>					
<i>Household Donation (private/non-profit) Options</i>		Ongoing			
<i>Research Center/Partnership Plan</i>					
<i>Plan Update</i>					
<i>Affiliate with existing partners and agencies</i>					
<b>Thermal Treatment Technologies</b>					
<u>No Plans</u>					
<b>Waste Reduction Programs</b>					
<u>Green Procurement</u>					
<i>NYC DEC Green Procurement Law-current</i>		On Hold			

**Annex 2: Diverted materials summary (annual comparison).**

**DIVERTED MATERIALS SUMMARY (year to year)**

		Diverted (in tons)					
		2019	2020	2021	2022	2023	2024
Single stream recycling		1,174	1,283	1,326	1,194	1,245	1,053
Scrap metals		35	26	7	9	17	56
Textiles				5	19	21	28
Yard materials		1,267	273	1,103	326	663	1,000
Food scrap				0	22	53	0
Tires		43	23	28	21	32	2
Electronic waste		9	9	32	29	14	4
Sub-Total Annual Diversion excluding asphalt millings, brush, biosolids, sweeps		2,493	1,592	2,508	1,613	2,051	2,148.39
Asphalt milling		100		1,282	1,549	1,801	1,214
Brush, trunks, stumps			415	244	324	440	295
Biosolids		50	4,590	2,680	1,396	876	998
Sweeps		324		238	102	127	
Sub-total, non household waste		474	5,005	4,444	3,371	3,244	2,507
Total Diversion		2,967	6,597	6,952	4,984	5,296	4,656

Source	Weight (tons)
MSW City of Troy hauler totals	13325.87
MSW Bulk Pickups & Violations	386
MSW Private Hauler totals	8748.75
Total disposal tonnage	22460.62
Total generation (disposal + diversion)	24902.62

**Annex 3: Household hazardous waste schedule of purchases.**

**HHW State Assistance Program  
SCHEDULE OF PURCHASES**

Applicant:	City Of Troy, NY (as lead agency; with Town of Bethlehem and Rensselaer County)
Calendar year covered by request: (January-December):	2024

**a. Contractual Expenses for HHW Collection or disposal (contractual costs)**

Description of expense and vendor	Invoice/manifest number	Invoice date	Check number	Check date	Total amount	Ineligible amount	Eligible Amount	Comments
MXI, Inc. HHW Vendor (Troy hosted event)	121269	06/03/24			\$26,507.02	\$1,320.00	\$25,187.02	
MXI, Inc. HHW Vendor (Rensselaer County/Schodack hosted event)	121721	07/31/24			\$23,197.50	\$1,720.00	\$21,477.50	
MXI, Inc. HHW Vendor (Rensselaer County/Brunswick hosted event)	122043	09/19/24			\$22,803.00	\$1,620.00	\$21,183.00	
MXI, Inc. HHW Vendor (Bethlehem hosted event)	122262	10/24/24			\$25,076.96	\$960.00	\$24,116.96	
<b>Subtotal</b>					<b>\$97,584.48</b>	<b>\$5,620</b>	<b>\$91,964.48</b>	
Subtract costs for CESQG, farm and municipality's wastes	N/A		N/A		N/A	N/A	N/A	
Subtotal ineligible materials collected by vendor						\$5,620		
Funds received directly from participants, or other assistance (additional ineligible expenses)	Resident checks from non-participating municipalities (PII information)					N/A		
<b>All ineligible expenses</b>					<b>\$5,620</b>			
State grant funds (50% of eligible amount for <b>contractual expenses</b> )						N/A	\$45,982.24	
Local match funds (50% of eligible amount for <b>contractual expenses</b> )						N/A	\$45,982.24	
<b>Total:</b>					<b>\$97,584.48</b>	<b>\$5,620</b>	<b>\$91,964.48</b>	



## HOUSEHOLD HAZARDOUS WASTE COLLECTION EVENT ANNUAL REPORT

Submit the Annual Report no later than March 1, 2025.

This annual report is for the year of operation from January 01, 2024 to December 31, 2024

## SECTION 1 – EVENT INFORMATION

<b>SPONSOR NAME:</b> City of Troy, Rensselaer County, Town of Bethlehem <b>SPONSOR ADDRESS:</b> 433 River Street, Suite 5001 <b>SPONSOR CITY:</b> Troy <b>STATE:</b> NY <b>ZIP CODE:</b> 12180 <b>SPONSOR CONTACT:</b> Joseph Mazzariello <b>SPONSOR CONTACT PHONE NUMBER:</b> 518-279-7158 <b>SPONSOR CONTACT FAX NUMBER:</b> n/a <b>COSPONSOR:</b> Ann Shaughnessy <b>COSPONSOR PHONE NUMBER:</b> 518-270-2888 <b>COSPONSOR FAX NUMBER:</b> n/a			
<b>CONTRACTOR INFORMATION</b>			
<b>CONTRACTOR NAME:</b> Maumee Express Inc. &/or MXI Environmental Services, LLC <b>CONTRACTOR ADDRESS:</b> 26319 Old Trail Road <b>CONTRACTOR CITY:</b> Abingdon <b>STATE:</b> VA <b>ZIP CODE:</b> 24210 <b>CONTRACTOR CONTACT:</b> Marc Kodrowski <b>CONTRACTOR CONTACT PHONE NUMBER:</b> 732-328-0320 <b>CONTRACTOR CONTACT FAX NUMBER:</b> n/a			
<b>EVENT LOCATION INFORMATION (Attach additional sheets if necessary)</b>			
<b>LOCATION OF COLLECTION:</b> Troy Resource Management Facility <b>TOWN:</b> (City of) Troy		<b>DATE:</b> 5 / 18 /24 <b>COUNTY:</b> Rensselaer	
<b>LOCATION OF COLLECTION:</b> Schodack Highway Dept <b>TOWN:</b> Schodack		<b>DATE:</b> 7 /27 /24 <b>COUNTY:</b> Rensselaer	
<b>LOCATION OF COLLECTION:</b> Brunswick Highway Dept <b>TOWN:</b> Brunswick		<b>DATE:</b> 9 /14 /24 <b>COUNTY:</b> Rensselaer	
<b>LOCATION OF COLLECTION:</b> Bethlehem Town Highway Garage <b>TOWN:</b> Bethlehem		<b>DATE:</b> 10 /19 /24 <b>COUNTY:</b> Albany	
<b>LOCATION OF COLLECTION:</b> <b>TOWN:</b>		<b>DATE:</b> / / / <b>COUNTY:</b>	
<b>LOCATION OF COLLECTION:</b> <b>TOWN:</b>		<b>DATE:</b> / / / <b>COUNTY:</b>	

## SECTION 2 – GENERAL INFORMATION

Total population of area served:	185,000
Number of participants during the year:	
Households	1172
Farmers	0
CESQGs (Conditionally exempt small quantity generators)	0

Disposal costs, including contractor fees:	97,584.48
Publicity and educational costs:	
Other costs:	
	Total cost: 97,584.48
*Comments:	_____
	_____
	_____
	_____
	_____

\*List any restrictions on the type of household hazardous waste that was collected. Also, include any other relevant comments/information not included elsewhere on this form.

### SECTION 3 – HOUSEHOLD HAZARDOUS WASTE COLLECTION DETAILS

Household Hazardous Waste	Weight/Volume*	Units
Antifreeze	550	Gallons
Hazardous Paint	8,080	Gallons
Automotive Batteries	0	Pounds
Hazardous Household Batteries	455	Pounds
Pesticides (Solids)	5,400	Pounds
Pesticides (Liquids)	2,255	Gallons
Mercury Thermostats	0	Number Collected
Other Mercury Containing Devices	0	Pounds
Bulk Mercury	91	Pounds
CRT TVs/Monitors	0	Pounds
Non-CRT TVs/Monitors	0	Pounds
Other Electronics	0	Pounds
Other HHW (Solids)	8,433	Pounds
Other HHW (Liquids)	12,775	Gallons
Miscellaneous Solid Waste (Solids)	0	Weight/Volume*_Other HHW (Liquids)
Miscellaneous Solid Waste (Liquids)	0	Gallons
Fluorescent Bulbs	844	Pounds
Other (specify)		
Total Disposed For Year	15,222/23,660	Pounds/Gallons

\*Please report the weight/volume of household hazardous waste in the container, not the size of the container.

## Step 1. Planning Unit and Plan Period Selection

Please, select from the drop-down list the name of your **planning unit** and the **planning period** of your LSWMP. Be aware that a LSWMP must be developed for a **10-year period**, and that your selection will be replicated on each one of the following tabs.

Planning Unit	City of Troy
Planning Period	2025-2034

## Step 2. Waste Generation Rate

In order to project how the amount of waste generated in the planning unit will change over time, data regarding the current amount of waste generated by the planning unit is needed. This can be the total tons of waste generated by the planning unit in the current year (**Tons/yr**), or this can be the estimated daily quantity of waste generated per person in the planning unit (**lb/person/day**). If both the total annual generation and the estimated generation rate per person are unknown, the state average for MSW generation rate can be used along with the planning unit's population to estimate the total amount of waste generated in the planning unit.

For this step, select **one** of the options that describes the known information about the planning unit. Enter the waste generated in Tons (MSW disposed & Recycled Materials) or the waste generation rate in lb/person/day in the **purple cell**. If no data on the waste generated in the planning unit is available, choose the corresponding option from the list. The calculator will estimate the total amount of waste generated based on the state's average generation rate and the planning unit's population.

### City of Troy

The amount of waste generated (by all residents, institutions, etc.) in the planning unit will be based on what is known. If the MSW generation amount and the generation rate are unknown, the state average for MSW generation rate will be used.

<input checked="" type="radio"/> I know the amount of MSW generated (Tons/year):	Enter tons disposed here: <span style="background-color: #e67e22; color: white; padding: 2px;">22,461</span>
<input type="radio"/> The planning unit Average MSW Generation Rate (lb/person/day) is:	Enter tons diverted here: <span style="background-color: #e67e22; color: white; padding: 2px;">2,442</span>
<input type="radio"/> The amount of MSW Generated and the planning unit Average MSW Generation Rate are unknown.	

## Step 3. Planning Unit Population - Projections & Municipal Solid Waste (MSW) - Projections

This tab will provide you with population projections and MSW generation projections for the planning period you had previously selected. It is recognized that Municipal Solid Waste (MSW) generation is reliant on population changes, hence, it is necessary to project both and identify their correlation.

In the first **purple cell** enter the total tons of MSW that was disposed in the year immediately before your plan period starts. For example: If the plan period is 2016-2026, the MSW disposed data should be from 2015.

### Population Projection:

Calculations are determined by a linear regression based on the latest census population data and an annual growth rate percentage specific to the planning unit. If it is anticipated that the population is going to decrease overtime, the minus sign (-) will be used.

### MSW Generation Projection:

The MSW generation rate (Lb/person/day) calculated on the previous tab from the **Waste Generation Rate** will serve as a start point for the planning period. On the calculator, three options are considered to anticipate the MSW generation over time, and one must be selected according to the goals of the planning unit.

#### First Option:

MSW generation rate does not change. Consequently, MSW generation fluctuates with the population of the planning unit. If the population increases, waste generation will rise as well, and vice versa.

By selecting this option, the planning unit is in "status quo", meaning that is not making any improvements, and consequently is getting far from reaching the State's goal by 2030.

#### Second Option:

MSW generation **amount** remains the same, regardless of whether or not the planning unit's population changes.

#### Third Option:

As a result of successfully implementing the Local Solid Waste Management Plan, MSW generation will be reduced by an annual factor of ...

An **Annual Factor of Reduction (%)** should be calculated, defined, and selected by the planning unit. This factor will be the numerical representation of one of the planning unit's goals for the planning period. Once calculated, the Annual Factor of Reduction can be chosen from the drop down list provided.

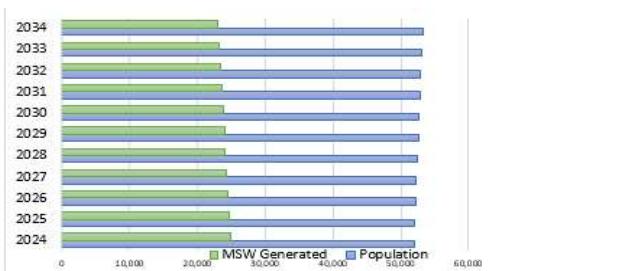
#### Note:

- The graphic will display the Population and MSW Generation projections over the selected planning period. It has been designed to visualize the contrast of the final outcomes, based on the selections of each planning unit

### City of Troy

2025-2034

Current Data	
2020 Population Census	51,401
2024 Population	51,925
2024 MSW Generated (Tons/yr)	24,903
2024 MSW generation rate (Lb/person/day)	2.37
2024 MSW Disposed (Tons/yr)	22,461
2024 MSW Diverted (Tons/yr)	2,442



Population Projection											
2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
51,925	52,057	52,189	52,322	52,455	52,588	52,722	52,856	52,990	53,124	53,259	

**Forecasting future conditions...** What do you expect to happen to the MSW generation rate over the next 10 year period plan?

MSW generation rate does not change. Consequently, MSW generation fluctuates with the population of the planning unit, if the population increases, waste generation will rise as well, and vice versa.

MSW generation amount remains the same, regardless of whether or not the planning unit's population fluctuates.

As a result of successfully implementing the Local Solid Waste Management Plan, MSW generation will be reduced by an annual factor of ...

Reduction Factor (per year)

MSW Generation Projection											
2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
2.62	2.60	2.57	2.55	2.52	2.49	2.47	2.45	2.42	2.40	2.37	(Lb/person/day)
24,860	24,674	24,489	24,306	24,124	23,943	23,764	23,586	23,410	23,235	23,061	Tons/yr

## Step 4. Municipal Solid Waste (MSW) Detailed Composition Analysis

The next step is to Identify the Materials Composition of the Waste Stream based on population density, and demographic characteristics of the Planning Unit.

This tab will provide the PU with a more detailed estimate of the materials present in the waste stream, which could be crucial when prioritizing the initiatives and programs of the LSWMP.

The population density distribution has been calculated based on the 2010 Census data and will be auto populated when a planning unit is selected. The following parameters were used and are defined in 6 NYCRR Part 360.2:

- Rural: <325 persons/mi<sup>2</sup>
- Suburban: >325 and <5,000 persons/mi<sup>2</sup>
- Urban: >5,000 persons/mi<sup>2</sup>

Under **Density Population Distribution**, the user has the option to modify the percentage values for the **Sector (Residential and Commercial/Institutional)** based on land use and specific characteristics of each planning unit. For example: A rural population in Westchester County could be 64% Residential and 36% Commercial / Institutional, while in Wyoming County might be 50% Residential and 50% Commercial / Institutional.

The results are presented on the last right column under **MSW Materials Composition**. Be aware of color changes on the cells, whenever a category represents over 15% of the total waste generation, the cell will turn **red** to easily identify key categories of the waste stream. It will also facilitate the selection of initiatives, programs, and infrastructure for the solid waste management system.

**Note:** If no data exists, use the pre-populated information in the worksheet.

### City of Troy

2025-2034

Material	Density Population Distribution	Rural			Suburban			Urban			MSW Materials Composition (%)	
		0.00%			68.00%			32.00%				
		Residential	Comm/Inst.	Combined	Residential	Comm/Inst.	Combined	Residential	Comm/Inst.	Combined		
		60.00%	40.00%	100.00%	60.00%	40.00%	100.00%	60.00%	40.00%	100.00%		
Newspaper		5.20%	1.90%	3.88%	5.00%	1.90%	3.76%	6.60%	2.00%	4.76%	4.08%	
Corrugated Cardboard		6.60%	13.90%	9.52%	6.60%	13.90%	9.52%	6.90%	13.70%	9.62%	9.55%	
Other Recyclable Paper	Paperboard	3.20%	1.10%	2.36%	3.30%	1.00%	2.38%	3.60%	0.90%	2.52%	2.42%	
	Office Paper	0.80%	3.80%	2.00%	0.90%	4.20%	2.22%	1.10%	5.80%	2.98%	2.46%	
	Junk Mail	3.00%	0.70%	2.08%	3.20%	0.70%	2.20%	3.50%	0.70%	2.38%	2.26%	
	Other Commercial Printing	1.70%	2.30%	1.94%	1.70%	2.40%	1.98%	2.30%	2.60%	2.42%	2.12%	
	Magazines	1.10%	0.90%	1.02%	1.00%	0.80%	0.92%	1.10%	1.00%	1.06%	0.96%	
	Books	0.50%	0.30%	0.42%	0.50%	0.30%	0.42%	0.60%	0.40%	0.52%	0.45%	
	Paper Bags	0.50%	0.20%	0.38%	0.50%	0.20%	0.38%	0.60%	0.20%	0.44%	0.40%	
	Phone Books	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.20%	0.26%	0.29%	
	Poly-Coated	0.20%	0.30%	0.24%	0.20%	0.20%	0.20%	0.30%	0.20%	0.26%	0.22%	
Other Recyclable Paper (Total)		11.30%	9.90%	10.74%	11.60%	10.10%	11.00%	13.40%	12.00%	12.84%	11.59%	
Other Compostable Paper		6.80%	6.80%	6.80%	6.40%	6.40%	6.40%	6.80%	6.80%	6.80%	6.53%	
<b>Total Paper</b>		<b>29.90%</b>	<b>32.50%</b>	<b>30.94%</b>	<b>29.60%</b>	<b>32.30%</b>	<b>30.68%</b>	<b>33.70%</b>	<b>34.50%</b>	<b>34.02%</b>	<b>31.75%</b>	
Ferrous/Aluminum Containers	Ferrous Containers	1.90%	1.00%	1.54%	1.20%	0.70%	1.00%	1.40%	0.70%	1.12%	1.04%	
	Aluminum Containers	0.70%	0.40%	0.58%	0.60%	0.30%	0.48%	0.50%	0.40%	0.46%	0.47%	
Ferrous/Aluminum Containers (Total)		2.60%	1.40%	2.12%	1.80%	1.00%	1.48%	1.90%	1.10%	1.58%	1.51%	
Other Ferrous Metals		5.20%	5.40%	5.28%	5.00%	5.80%	5.32%	3.30%	3.70%	3.46%	4.72%	
Other Non-Ferrous Metals	Other aluminum	0.20%	0.30%	0.24%	0.20%	0.30%	0.24%	0.20%	0.30%	0.24%	0.24%	
	Automotive batteries	0.80%	0.50%	0.68%	0.70%	0.40%	0.58%	0.20%	0.20%	0.20%	0.46%	
	Other non-aluminum	0.50%	0.30%	0.42%	0.30%	0.40%	0.34%	0.40%	0.20%	0.32%	0.33%	
Other Non-Ferrous Metals (Total)		1.50%	1.10%	1.34%	1.20%	1.10%	1.16%	0.80%	0.70%	0.76%	1.03%	
<b>Total Metals</b>		<b>9.30%</b>	<b>7.90%</b>	<b>8.74%</b>	<b>8.00%</b>	<b>7.90%</b>	<b>7.96%</b>	<b>6.00%</b>	<b>5.50%</b>	<b>5.80%</b>	<b>7.27%</b>	
PET Containers		1.10%	0.80%	0.98%	0.90%	0.80%	0.86%	1.20%	1.00%	1.12%	0.94%	
HDPE Containers		1.10%	0.60%	0.90%	0.90%	0.70%	0.82%	1.00%	0.70%	0.88%	0.84%	
Other Plastic (3-7) Containers		0.20%	0.10%	0.16%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	
Film Plastic		5.70%	5.90%	5.78%	5.50%	5.80%	5.62%	5.80%	5.80%	5.80%	5.68%	
Other Plastic	Durables	3.10%	3.20%	3.14%	3.00%	3.20%	3.08%	3.20%	3.30%	3.24%	3.13%	
	Non-Durables	1.60%	1.80%	1.68%	1.60%	1.80%	1.68%	1.80%	1.90%	1.84%	1.73%	
	Packaging	1.40%	1.10%	1.28%	1.40%	1.10%	1.28%	1.50%	1.10%	1.34%	1.30%	
Other Plastic (Total)		6.10%	6.10%	6.10%	6.00%	6.10%	6.04%	6.50%	6.30%	6.42%	6.16%	
<b>Total Plastics</b>		<b>14.20%</b>	<b>13.50%</b>	<b>13.92%</b>	<b>13.50%</b>	<b>13.60%</b>	<b>13.54%</b>	<b>14.70%</b>	<b>14.00%</b>	<b>14.42%</b>	<b>13.82%</b>	
Glass Bottles, Jars and Containers		4.10%	3.80%	3.98%	3.90%	3.80%	3.86%	4.30%	3.80%	4.10%	3.94%	
Other Glass (Flat glass, dishware, light bulbs, etc.)		0.50%	0.40%	0.46%	0.30%	0.40%	0.34%	0.40%	0.40%	0.40%	0.36%	
<b>Total Glass</b>		<b>4.60%</b>	<b>4.20%</b>	<b>4.44%</b>	<b>4.20%</b>	<b>4.20%</b>	<b>4.20%</b>	<b>4.70%</b>	<b>4.20%</b>	<b>4.50%</b>	<b>4.30%</b>	
Food Scraps		12.70%	13.30%	12.94%	12.90%	15.50%	13.94%	17.20%	25.20%	20.40%	16.01%	
Leaves and Grass / Pruning and Trimmings		3.10%	1.10%	2.30%	11.30%	9.10%	10.42%	4.20%	1.50%	3.12%	8.08%	

<b>Total Organics</b>	<b>15.80%</b>	<b>14.40%</b>	<b>15.24%</b>	<b>24.20%</b>	<b>24.60%</b>	<b>24.36%</b>	<b>21.40%</b>	<b>26.70%</b>	<b>23.52%</b>	<b>24.09%</b>
Clothing Footwear, Towels, Sheets	4.60%	3.00%	3.96%	4.40%	3.20%	3.92%	4.80%	2.50%	3.88%	3.91%
Carpet	1.40%	1.30%	1.36%	1.70%	1.40%	1.58%	1.70%	0.90%	1.38%	1.52%
<b>Total Textiles</b>	<b>6.00%</b>	<b>4.30%</b>	<b>5.32%</b>	<b>6.10%</b>	<b>4.60%</b>	<b>5.50%</b>	<b>6.50%</b>	<b>3.40%</b>	<b>5.26%</b>	<b>5.42%</b>
<b>Total Wood</b> (Pallets, crates, adulterated and non-adulterated wood)	<b>4.10%</b>	<b>9.00%</b>	<b>6.06%</b>	<b>2.90%</b>	<b>4.10%</b>	<b>3.38%</b>	<b>2.00%</b>	<b>3.50%</b>	<b>2.60%</b>	<b>3.13%</b>
DIY - Construction & Renovation Materials	8.00%	7.60%	7.84%	3.80%	2.70%	3.36%	4.40%	3.80%	4.16%	3.62%
Diapers	1.90%	1.10%	1.58%	2.10%	1.20%	1.74%	2.30%	1.10%	1.82%	1.77%
Electronics	1.30%	1.40%	1.34%	1.60%	1.70%	1.64%	1.30%	1.30%	1.30%	1.53%
Tires	1.80%	1.80%	1.80%	1.70%	1.40%	1.58%	0.50%	0.40%	0.46%	1.22%
HHW	0.60%	0.00%	0.36%	0.60%	0.00%	0.36%	0.50%	0.00%	0.30%	0.34%
Soils and Fines	0.60%	0.60%	0.60%	0.10%	0.20%	0.14%	0.10%	0.10%	0.10%	0.13%
Other Composite Materials - Durable and/or Inert	1.90%	1.70%	1.82%	1.60%	1.50%	1.56%	1.90%	1.50%	1.74%	1.62%
<b>Total Miscellaneous</b>	<b>16.10%</b>	<b>14.20%</b>	<b>15.34%</b>	<b>11.50%</b>	<b>8.70%</b>	<b>10.38%</b>	<b>11.00%</b>	<b>8.20%</b>	<b>9.88%</b>	<b>10.22%</b>

<b>Total</b>	<b>100.00%</b>									
										<b>100.00%</b>

## Step 5. Municipal Solid Waste (MSW) Detailed Composition Analysis

On this tab, the composition of the municipal waste stream will be estimated based on the amount of material generated in the planning unit and the state average of the different waste materials. A pie chart will be generated to clearly show the composition of the waste stream and to identify key categories of the waste stream for the planning unit.

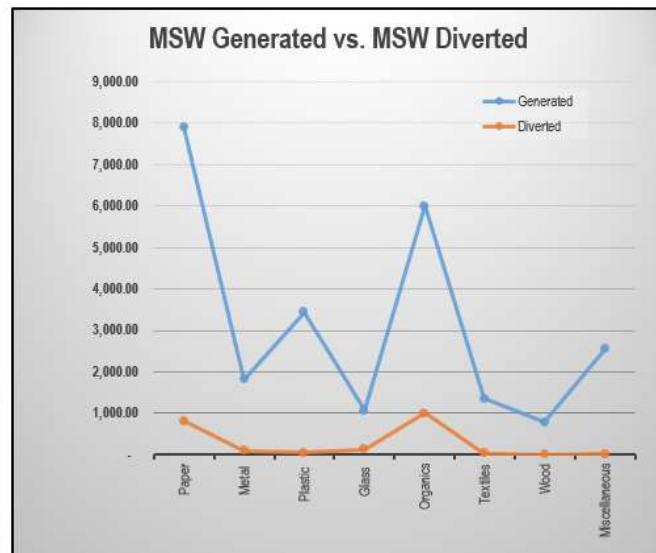
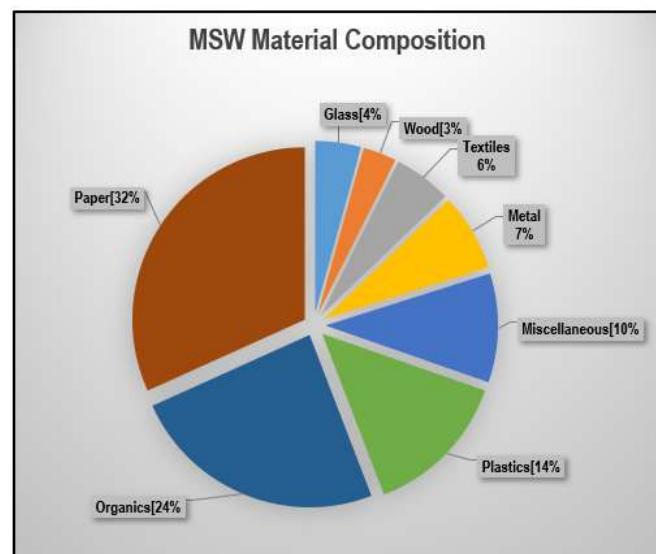
The total tons of MSW diverted per year will be auto populated based on previous data inputs, while the amount tons diverted for each material by category should be populated by the user. **Purple** should be used for amounts of diverted waste by type of material, and a totaled number by category (e.g. paper, metal) should be put in **the green cells**. After inputting the data, a graphic will be generated to show the MSW generation and diversion streams in Tons.

Make sure that the total amounts at the bottom of the page are consistent with the data you already put into the calculator. If the cell is highlighted in **red**, **you should revise the amounts of diverted waste by category.**

City of Troy

2025-2034

		2024		
		MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)
Material		100.0%	24,903	2,442.00
Paper	Newspaper	4.1%	1,016	127.14
	Corrugated Cardboard	9.6%	2,379	319.49
	Other Recyclable Paper (Total)	11.6%	2,886	374.91
	Other Compostable Paper	6.5%	1,626	0.00
	<b>Total Paper</b>	<b>31.7%</b>	<b>7,906</b>	<b>821.54</b>
Metal	Ferrous/Aluminum Containers (Total)	1.5%	377	48.90
	Other Ferrous Metals	4.7%	1,177	56.48
	Other Non-Ferrous Metals (Total)	1.0%	257	0.00
	<b>Total Metals</b>	<b>7.3%</b>	<b>1,810</b>	<b>105.38</b>
Plastic	PET Containers	0.9%	235	29.34
	HDPE Containers	0.8%	209	26.08
	Other Plastic (3-7) Containers	0.2%	50	0.00
	Film Plastic	5.7%	1,414	0.00
	<b>Total Plastics</b>	<b>13.8%</b>	<b>3,442</b>	<b>55.42</b>
Glass	Glass Bottles, Jars and Containers	3.9%	980	127.24
	Other Glass (Flat glass, dishware, light bulbs, etc.)	0.4%	89	0.00
	<b>Total Glass</b>	<b>4.3%</b>	<b>1,070</b>	<b>127.24</b>
Organics	Food Scraps	16.0%	3,986	0.00
	Leaves and Grass / Pruning and Trimmings	8.1%	2,013	1,000.00
	<b>Total Organics</b>	<b>24.1%</b>	<b>5,999</b>	<b>1,000.00</b>
Textiles	Clothing Footwear, Towels, Sheets	3.9%	973	32.00
	Carpet	1.5%	378	0.00
	<b>Total Textiles</b>	<b>5.4%</b>	<b>1,351</b>	<b>32.00</b>
Wood	<b>Total Wood</b> (Pallets, crates, adulterated and non-adulterated wood)	<b>3.1%</b>	<b>780</b>	<b>0.00</b>
Miscellaneous	DIY Construction & Renovation Materials	3.6%	900	0.00
	Diapers	1.8%	440	0.00
	Electronics	1.5%	381	4.30
	Tires	1.2%	304	2.48
	HHW	0.3%	85	7.60
	Soils and Fines	0.1%	32	0.00
	Other Composite Materials - Durable and/or inert	1.6%	403	0.00
<b>Total Miscellaneous</b>		<b>10.2%</b>	<b>2,545</b>	<b>14.38</b>
<b>Total</b>		<b>100.0%</b>	<b>24,903</b>	<b>2,155.96</b>



The city has identified a data gap of approximately 286 tons in the 2024 diversion tonnage (see objective 6). The chart above represents the data that has been verifiably collected.

## Step 6. Municipal Solid Waste (MSW) Diversion Projections

This tab will be used to create goals for the amount of material the planning unit will divert for each year of the planning period. These goals will be entered as percentages, based on how much of the material generated will be diverted for recycling or beneficial use.

The diversion goal percentages will be entered in the **purple cells** for each material and each year of the planning period.

City of Troy										2025-2034				
	Year			2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
	Projected MSW Generation (Tons/yr)			24,860	24,674	24,489	24,306	24,124	23,943	23,764	23,586	23,410	23,235	
	MSW Diverted (Tons/yr)			2,184	2,194	2,235	2,269	2,306	2,356	2,461	2,550	2,640	2,732	
				2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted										
	Material	100.0%	24,903	2,156	8.7%	8.8%	8.9%	9.1%	9.3%	9.6%	9.8%	10.4%	10.8%	11.3%
Paper	Newspaper	4.1%	1,016	127	12.5%	12.5%	12.6%	12.7%	12.7%	12.8%	13.0%	13.5%	14.0%	14.5%
	Corrugated Cardboard	9.6%	2,379	319	13.4%	13.4%	13.5%	13.6%	13.7%	14.0%	14.5%	15.0%	15.5%	16.0%
	Other Recyclable Paper (Total)	11.6%	2,886	375	13.0%	13.0%	13.1%	13.2%	13.3%	13.5%	13.8%	14.0%	14.5%	15.0%
	Other Compostable Paper	6.5%	1,626	0	0.0%	1.0%	1.1%	1.1%	1.2%	1.3%	2.0%	2.5%	2.8%	3.0%
	<b>Total Paper</b>	<b>31.7%</b>	<b>7,906</b>	<b>822</b>	<b>10.4%</b>	<b>10.6%</b>	<b>10.7%</b>	<b>10.7%</b>	<b>10.8%</b>	<b>10.9%</b>	<b>11.2%</b>	<b>11.6%</b>	<b>12.0%</b>	<b>12.4%</b>
Metal	Ferrous/Aluminum Containers (Total)	1.5%	377	49	13.0%	13.0%	13.1%	13.1%	13.2%	13.3%	13.5%	14.0%	14.5%	15.0%
	Other Ferrous Metals	4.7%	1,177	56	4.8%	4.8%	4.9%	5.0%	5.1%	5.2%	5.4%	5.8%	6.0%	6.5%
	Other Non-Ferrous Metals (Total)	1.0%	257	0	0.0%	0.0%	0.0%	0.0%	1.0%	1.0%	2.0%	2.0%	2.5%	3.0%
	<b>Total Metals</b>	<b>7.3%</b>	<b>1,810</b>	<b>105</b>	<b>5.8%</b>	<b>5.8%</b>	<b>5.9%</b>	<b>6.0%</b>	<b>6.1%</b>	<b>6.3%</b>	<b>6.5%</b>	<b>7.0%</b>	<b>7.2%</b>	<b>7.7%</b>
Plastic	PET Containers	0.9%	235	29	12.5%	12.5%	12.6%	12.6%	12.7%	12.8%	13.0%	13.5%	14.0%	14.5%
	HDPE Containers	0.8%	209	26	12.5%	12.5%	12.6%	12.6%	12.7%	12.8%	13.0%	13.5%	14.0%	14.5%
	Other Plastic (3-7) Containers	0.2%	50	0	0.0%	0.0%	1.0%	1.5%	2.0%	2.5%	2.8%	3.0%	3.5%	4.0%
	Film Plastic	5.7%	1,414	0	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	1.0%	2.0%	2.5%	3.0%
	<b>Total Plastics</b>	<b>6.2%</b>	<b>1,534</b>	<b>0</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>2.0%</b>	<b>2.5%</b>	<b>3.0%</b>	<b>3.5%</b>
Glass	Glass Bottles, Jars and Containers	3.9%	980	127	13.0%	13.0%	13.1%	13.2%	14.0%	14.5%	15.0%	16.0%	16.5%	17.0%
	Other Glass (Flat glass, dishware, light bulbs, etc.)	0.4%	89	0	0.0%	0.0%	1.0%	1.5%	1.6%	1.7%	1.8%	2.0%	3.0%	4.0%
	<b>Total Glass</b>	<b>4.3%</b>	<b>1,070</b>	<b>127</b>	<b>11.9%</b>	<b>11.9%</b>	<b>12.1%</b>	<b>12.2%</b>	<b>13.0%</b>	<b>13.4%</b>	<b>13.9%</b>	<b>14.8%</b>	<b>15.4%</b>	<b>16.4%</b>
Organics	Food Scraps	16.0%	3,986	0	0.0%	0.0%	0.0%	1.0%	1.5%	1.6%	1.8%	2.0%	2.5%	3.0%
	Leaves and Grass / Pruning and Trimmings	8.1%	2,013	1,000	49.7%	50.0%	50.5%	50.5%	51.0%	51.0%	52.0%	53.0%	54.0%	54.5%
	<b>Total Organics</b>	<b>24.1%</b>	<b>5,999</b>	<b>1,000</b>	<b>16.7%</b>	<b>16.8%</b>	<b>16.9%</b>	<b>17.6%</b>	<b>18.1%</b>	<b>18.2%</b>	<b>18.6%</b>	<b>19.1%</b>	<b>19.8%</b>	<b>20.3%</b>
Textiles	Clothing Footwear, Towels, Sheets	3.9%	973	32	3.3%	3.4%	3.5%	3.5%	3.6%	3.7%	3.9%	4.0%	4.5%	5.0%
	Carpet	1.5%	378	0	0.0%	0.0%	0.0%	1.0%	1.0%	1.2%	1.4%	2.0%	2.5%	3.0%
	<b>Total Textiles</b>	<b>5.4%</b>	<b>1,351</b>	<b>32</b>	<b>2.4%</b>	<b>2.4%</b>	<b>2.5%</b>	<b>2.8%</b>	<b>2.9%</b>	<b>3.0%</b>	<b>3.2%</b>	<b>3.4%</b>	<b>3.9%</b>	<b>4.4%</b>
Wood	<b>Total Wood (Pallets, crates, adulterated and non-adulterated wood)</b>	<b>3.1%</b>	<b>780</b>	<b>0</b>	<b>0.0%</b>	<b>1.0%</b>	<b>1.1%</b>	<b>1.1%</b>	<b>1.3%</b>	<b>1.4%</b>	<b>1.6%</b>	<b>2.0%</b>	<b>2.5%</b>	<b>3.0%</b>
Miscellaneous	DIY Construction & Renovation Materials	3.6%	900	0	0.0%	0.0%	0.0%	1.0%	1.1%	1.2%	1.4%	2.0%	2.5%	3.0%
	Diapers	1.8%	440	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Electronics	1.5%	381	4	1.1%	1.2%	1.5%	2.0%	2.3%	2.5%	2.7%	3.0%	3.5%	4.0%
	Tires	1.2%	304	2	0.8%	1.0%	1.1%	1.1%	1.2%	1.3%	1.4%	2.0%	2.5%	3.0%
	HHW	0.3%	85	8	9.0%	9.0%	9.1%	9.1%	9.2%	9.3%	9.5%	10.0%	10.5%	11.0%
	Soils and Fines	0.1%	32	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Other Composite Materials - Durable and/or inert	1.6%	403	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	<b>Total Miscellaneous</b>	<b>10.2%</b>	<b>2,545</b>	<b>14</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>1.1%</b>	<b>1.2%</b>	<b>1.3%</b>	<b>1.4%</b>	<b>1.7%</b>	<b>2.1%</b>	<b>2.4%</b>

## Step 7. Municipal Solid Waste (MSW) Generation and Diversion - Detailed Projections

The final result of the Population and Municipal Composition Calculator is presented on the last tab. This tab contains data for the current year regarding waste generated and waste diverted from disposal. This tab also shows the projected waste diversion percentages, and the amount of waste in tons these percentages will divert for recycling. Total amounts of waste diverted will be calculated for each material and each year of the planning period.

City of Troy										2025-2034				
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		MSW Materials Composition (%)	2024			2025			2026			2027			2028			
			MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	
		Material	100.00%	24,903	2,156	8.7%	24,860	2,184	8.8%	24,674	2,194	9%	24,489	2,235	9.1%	24,306	2,269	9.3%
Paper	Newspaper	4.08%	1,016	127	12.5%	1,014	127	12.5%	1,007	127	13%	999	127	12.7%	992	126	12.7%	
	Corrugated Cardboard	9.55%	2,379	319	13.4%	2,375	318	13.4%	2,357	318	14%	2,339	316	13.5%	2,322	316	13.6%	
	Other Recyclable Paper (Total)	11.59%	2,886	375	13.0%	2,881	375	13.0%	2,859	375	13%	2,838	372	13.1%	2,817	372	13.2%	
	Other Compostable Paper	6.53%	1,626	0	0.0%	1,623	16	1.0%	1,611	18	1%	1,599	18	1.1%	1,587	19	1.2%	
	Total Paper	31.75%	7,906	822	10.4%	7,893	836	10.6%	7,834	837	11%	7,775	832	10.7%	7,717	833	10.8%	
Metal	Ferrous/Aluminum Containers (Total)	1.51%	377	49	13.0%	376	49	13.0%	373	49	13%	370	49	13.1%	368	49	13.2%	
	Other Ferrous Metals	4.72%	1,177	56	4.8%	1,175	56	4.8%	1,166	57	5%	1,157	58	5.0%	1,148	59	5.1%	
	Other Non-Ferrous Metals (Total)	1.03%	257	0	0.0%	257	0	0.0%	255	0	0%	253	0	0.0%	251	0	0.0%	
	Total Metals	7.27%	1,810	105	5.8%	1,807	105	5.8%	1,794	106	6%	1,780	106	6.0%	1,767	107	6.1%	
Plastic	PET Containers	0.94%	235	29	12.5%	234	29	12.5%	233	29	13%	231	29	12.6%	229	29	12.7%	
	HDPE Containers	0.84%	209	26	12.5%	209	26	12.5%	207	26	13%	206	26	12.6%	204	26	12.7%	
	Other Plastic (3-7) Containers	0.20%	50	0	0.0%	50	0	0.0%	49	0	1%	49	1	1.5%	49	1	2.0%	
	Film Plastic	5.68%	1,414	0	0.0%	1,411	0	0.0%	1,401	0	0%	1,390	0	0.0%	1,380	0	0.0%	
	Other Plastic (Total)	6.16%	1,534	0	0.0%	1,532	0	0.0%	1,520	0	0%	1,509	0	0.0%	1,498	0	0.0%	
Glass	Total Plastics	13.82%	3,442	55	16%	3,436	55	16%	3,410	56	17%	3,385	56	16%	3,359	56	17%	
	Glass Bottles, Jars and Containers	3.94%	980	127	13.0%	979	127	13.0%	971	127	13%	964	127	13.2%	957	134	14.0%	
	Other Glass (Flat glass, dishware, light bulbs,)	0.36%	89	0	0.0%	89	0	0.0%	89	1	1%	88	1	1.5%	87	1	1.6%	
	Total Glass	4.30%	1,070	127	11.9%	1,068	127	11.9%	1,060	128	12%	1,052	129	12.2%	1,044	135	13.0%	
	Food Scraps	16.01%	3,986	0	0.0%	3,979	0	0.0%	3,950	0	0%	3,920	39	1.0%	3,891	58	15%	
Organics	Leaves and Grass / Pruning and Trimmings	8.08%	2,013	1,000	49.7%	2,010	1,005	50.0%	1,995	1,007	51%	1,980	1,000	50.5%	1,965	1,002	51.0%	
	Total Organics	24.09%	5,999	1,000	16.7%	5,989	1,005	16.8%	5,944	1,007	17%	5,900	1,039	17.6%	5,856	1,060	18.1%	
	Clothing Footwear, Towels, Sheets	3.91%	973	32	3.3%	971	33	3.4%	964	34	4%	957	33	3.5%	950	34	3.6%	
Textiles	Carpet	1.52%	378	0	0.0%	377	0	0.0%	374	0	0%	371	4	1.0%	368	4	1.0%	
	Total Textiles	5.42%	1,351	32	2.4%	1,348	33	2.4%	1,338	34	3%	1,328	37	2.8%	1,318	38	2.9%	
	Total Wood (Pallets, crates, adulterated and)	3.13%	780	0	0.0%	778	8	10%	772	8	1%	767	8	11%	761	10	13%	
Miscellaneous	DIY Construction & Renovation Materials	3.62%	900	0	0.0%	899	0	0.0%	892	0	0%	886	9	10%	879	10	11%	
	Diapers	1.77%	440	0	0.0%	439	0	0.0%	436	0	0%	432	0	0.0%	429	0	0.0%	
	Electronics	1.53%	381	4	1.1%	381	5	1.2%	378	6	2%	375	7	2.0%	372	9	2.3%	
	Tires	1.22%	304	2	0.8%	304	3	1.0%	301	3	1%	299	3	1.1%	297	4	1.2%	
	HHW	0.34%	85	8	9.0%	85	8	9.0%	84	8	9%	83	8	9.1%	83	8	9.2%	
	Soils and Fines	0.13%	32	0	0.0%	32	0	0.0%	31	0	0%	31	0	0.0%	31	0	0.0%	
	Other Composite Materials - Durable and/or inert	1.62%	403	0	0.0%	402	0	0.0%	399	0	0%	396	0	0.0%	393	0	0.0%	
Total Miscellaneous		10.22%	2,545	14	0.6%	2,541	15	0.6%	2,522	17	1%	2,503	27	11%	2,494	29	12%	

	2024	2025	2026	2027	2028
Population	51,925	51,925	52,057	52,183	52,322
MSW Generated (tons)	24,903.00	24,860	24,674	24,489	24,306
Per Capita MSW Generated (lbs/person/year)	553	558	548	538	529
MSW Diverted (tons)	2,155.96	2,184	2,194	2,235	2,269
Per Capita MSW Diverted (lbs/person/year)	83	84	84	86	87
MSW Disposed (tons)	22,747.04	22,676	22,480	22,255	22,037
Per Capita MSW Disposed (lbs/person/year)	876	873	864	853	842
Per Capita MSW Disposed (lbs/person/day)	2.40	2.39	2.37	2.34	2.31

			2029			2030			2031			2032			2033			2034		
			MSW generated (Tons)	MSW Diverted	% MSW Diverted	MSW generated (Tons)	MSW Diverted	% MSW Diverted	MSW generated (Tons)	MSW Diverted	% MSW Diverted	MSW generated (Tons)	MSW Diverted	% MSW Diverted	MSW generated (Tons)	MSW Diverted	% MSW Diverted	MSW generated (Tons)	MSW Diverted	% MSW Diverted
		<b>Material</b>	24,124	2,351	9.7%	23,943	2,356	9.8%	23,764	2,461	10.4%	23,586	2,550	10.8%	23,410	2,640	11.3%	23,235	2,732	11.8%
Paper	Newspaper		984	126	12.8%	977	127	13.0%	970	131	13.5%	962	135	14.0%	955	138	14.5%	948	142	15.0%
	Corrugated Cardboard		2,304	316	13.7%	2,287	320	14.0%	2,270	329	14.5%	2,253	338	15.0%	2,236	347	15.5%	2,219	355	16.0%
	Other Recyclable Paper (Total)		2,796	372	13.3%	2,775	375	13.5%	2,754	380	13.8%	2,733	383	14.0%	2,713	393	14.5%	2,693	404	15.0%
	Other Compostable Paper		1,575	20	1.3%	1,563	31	2.0%	1,551	39	2.5%	1,540	43	2.8%	1,528	46	3.0%	1,517	53	3.5%
	<b>Total Paper</b>		7,659	834	10.9%	7,602	853	11.2%	7,545	879	11.6%	7,488	898	12.0%	7,432	924	12.4%	7,377	954	12.8%
Metal	Ferrous/Aluminum Containers (Total)		365	49	13.3%	362	49	13.5%	359	50	14.0%	357	52	14.5%	354	53	15.0%	351	54	15.5%
	Other Ferrous Metals		1,140	59	5.2%	1,131	61	5.4%	1,123	65	5.8%	1,114	67	6.0%	1,106	72	6.5%	1,098	77	7.0%
	Other Non-Ferrous Metals (Total)		243	2	1.0%	247	2	1.0%	245	5	2.0%	243	5	2.0%	242	6	2.5%	240	7	3.0%
	<b>Total Metals</b>		1,754	110	6.3%	1,740	112	6.5%	1,727	120	7.0%	1,714	123	7.2%	1,702	131	7.7%	1,689	138	8.2%
Plastic	PET Containers		228	29	12.8%	226	29	13.0%	224	30	13.5%	222	31	14.0%	221	32	14.5%	219	33	15.0%
	HDPE Containers		202	8	4.2%	201	26	13.0%	199	27	13.5%	198	28	14.0%	196	28	14.5%	195	29	15.0%
	Other Plastic (3-7) Containers		48	6	13.3%	48	1	2.8%	48	1	3.0%	47	2	3.5%	47	2	3.8%	46	2	4.0%
	Film Plastic		1,370	71	5.2%	1,359	14	1.0%	1,349	27	2.0%	1,339	33	2.5%	1,329	40	3.0%	1,319	46	3.5%
	<b>Other Plastic (Total)</b>		1,486	15	1.0%	1,475	15	1.0%	1,464	29	2.0%	1,453	36	2.5%	1,442	43	3.0%	1,432	50	3.5%
Glass	<b>Total Plastics</b>		3,334	130	3.9%	3,309	85	2.6%	3,285	115	3.5%	3,260	130	4.0%	3,236	145	4.5%	3,211	160	5.0%
	Glass Bottles, Jars and Containers		950	138	14.5%	943	141	15.0%	936	150	16.0%	929	153	16.5%	922	157	17.0%	915	160	17.5%
	Other Glass (Flat glass, dishware, light bulbs, etc.)		87	1	1.7%	86	2	1.8%	85	2	2.0%	85	3	3.0%	84	3	3.5%	83	3	4.0%
	<b>Total Glass</b>		1,036	139	13.4%	1,029	143	13.9%	1,021	151	14.8%	1,013	156	15.4%	1,006	160	15.9%	998	163	16.4%
Organics	Food Scraps		3,862	62	1.6%	3,833	69	1.8%	3,804	76	2.0%	3,776	94	2.5%	3,747	112	3.0%	3,719	130	3.5%
	Leaves and Grass / Pruning and Trimmings		1,950	995	51.0%	1,936	1,007	52.0%	1,921	1,018	53.0%	1,907	1,030	54.0%	1,892	1,031	54.5%	1,878	1,033	55.0%
	<b>Total Organics</b>		5,812	1,056	18.2%	5,768	1,075	18.6%	5,725	1,094	19.1%	5,682	1,124	19.8%	5,640	1,144	20.3%	5,597	1,163	20.8%
Textiles	Clothing Footwear, Towels, Sheets		943	35	3.7%	936	36	3.9%	929	37	4.0%	922	41	4.5%	915	46	5.0%	908	50	5.5%
	Carpet		366	4	1.2%	363	5	1.4%	360	7	2.0%	358	9	2.5%	355	11	3.0%	352	12	3.5%
Wood	<b>Total Textiles</b>		1,308	39	3.0%	1,299	42	3.2%	1,289	44	3.4%	1,279	50	3.9%	1,270	56	4.4%	1,260	62	4.9%
	<b>Total Wood (Pallets, crates, adulterated and)</b>		755	11	1.4%	750	12	1.6%	744	15	2.0%	738	18	2.5%	733	22	3.0%	727	25	3.5%
Miscellaneous	DIY Construction & Renovation Materials		872	10	1.2%	866	12	1.4%	859	17	2.0%	853	21	2.5%	846	25	3.0%	840	29	3.5%
	Diapers		426	0	0.0%	423	0	0.0%	420	0	0.0%	416	0	0.0%	413	0	0.0%	410	0	0.0%
	Electronics		369	9	2.5%	367	10	2.7%	364	11	3.0%	361	13	3.5%	358	14	4.0%	356	16	4.5%
	Tires		295	4	1.3%	292	4	1.4%	290	6	2.0%	288	7	2.5%	286	9	3.0%	284	10	3.5%
	HHW		82	8	9.3%	82	8	9.5%	81	8	10.0%	80	8	10.5%	80	9	11.0%	79	9	11.5%
	Soils and Fines		31	0	0.0%	30	0	0.0%	30	0	0.0%	30	0	0.0%	30	0	0.0%	30	0	0.0%
	Other Composite Materials - Durable and/or inert		390	0	0.0%	387	0	0.0%	384	0	0.0%	382	0	0.0%	379	0	0.0%	376	0	0.0%
	<b>Total Miscellaneous</b>		2,465	31	1.3%	2,447	34	1.4%	2,429	42	1.7%	2,411	50	2.1%	2,392	57	2.4%	2,375	64	2.7%

	2029	2030	2031	2032	2033	2034
Population	52,455	52,588	52,722	52,856	52,990	53,124
MSW Generated (tons)	24,124	23,943	23,764	23,586	23,410	23,235
Per Capita MSW Generated (lbs/person/year)	920	911	901	892	884	875
MSW Diverted (tons)	2,351	2,356	2,461	2,550	2,640	2,732
Per Capita MSW Diverted (lbs/person/year)	90	90	93	97	100	103
MSW Disposed (tons)	21,773	21,587	21,303	21,036	20,770	20,503
Per Capita MSW Disposed (lbs/person/year)	830	821	808	796	784	772
Per Capita MSW Disposed (lbs/person/day)	2.27	2.25	2.21	2.18	2.15	2.11