



Comprehensive Recycling Analysis Report

2022

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 2022. It is our continued intention to ensure that this information is shared in an inclusive and accessible manner, being mindful of the variety of learning and comprehension styles of reviewers and residents alike.

It is the City's plan to annually begin this report by recognizing the importance of land acknowledgement, starting with gratitude for this 11-mile-long City, located along the Eastern side of the mighty Hudson River. The aim is to honor the tapestry of life that has been woven along this majestic river, near roosting spots of eagles and their eaglets each year. Long before this became Troy, this area was known as the Cahohatatea by the indigenous Haudenosaunee People. Reiterating from the 2021 report, The Great Law of the Haudenosaunee (Iroquois) Nation, stating that the impact of decisions must be considered seven generations into the future. It is with this in mind that the City of Troy tackles the complicated issues surrounding solid waste, recycling, and resource management.

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 by 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 2022 associated with these objectives is included in City's submission (Annex 1).

The City of Troy aspires to be a leader (or early adopter) in the resource management industry, while collaborating with others across the county, state and nation. This report will summarize how the City worked toward these goals in 2022 and plans to continue to do so in 2023 and beyond. The City of Troy recognizes that it is both a privilege and duty to care for this corner of the planet as each one of us is a part of an irreplaceable planet with her awesome regenerative cycles.

As noted in prior CRA reports, the primary areas of focus are aligned with the parameters delineated by the following seven objectives:



Figure 1: the Haudenosaunee Great Law.

- 1. Establish a recycling center**
- 2. Provide guidance for food diversion and a facility for mulch/compost**
- 3. Develop a plan and a re-use center**
- 4. Create clear waste collection procedures and increase collection participation**
- 5. Education and outreach**
- 6. Increase accurate data collection**
- 7. Create a deconstruction permit and provide deconstruction education**

Objective 1: Establish a recycling center:

At the end of 2022, the City ironed out final details to complete the purchase of the “Alamo” (Troy Resource Management Facility/TRMF) from Troy Local Development Corporation (TLDC). Since the transaction was not officially executed, it is anticipated to be completed in early 2023. As continued improvements are made to the facility, it will be a viable site for more community engagement opportunities. Additionally, in the coming years, the City will resurface the entire facility and create a physical structure (workspace) at the TRMF for ease-of-use.

Objective 2: Provide guidance for diversion/gleaning for consumable foods and operate a mulch and/or compost facility:

In 2021, the United States Department of Agriculture (USDA) and National Resources Conservation Service (NRCS) awarded the City of Troy funding toward a community compost and food waste reduction pilot program. This allowed the City to implement regular increases in food scrap collection. This initiative is in collaboration with FoodScraps360, a local hauler, to collect and transport the food scraps to the Town of Bethlehem’s Composting Facility. This program now includes a total of 250 participants. The USDA grant covers 75% of the program’s expenses and the City of Troy covers the remaining 25%. The curbside model was chosen in order to best accommodate Troy’s urban population, where many residents have limited space within their homes, and no access to a backyard for backyard composting. The curbside model generated over 20 tons of food scraps in 2022.

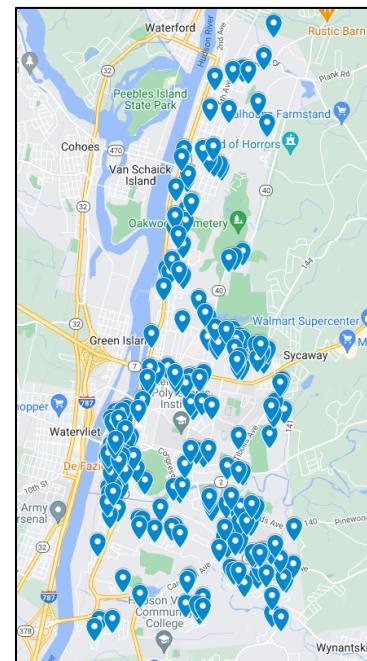


Figure 2: distribution of households participating in the curbside composting program in 2022.

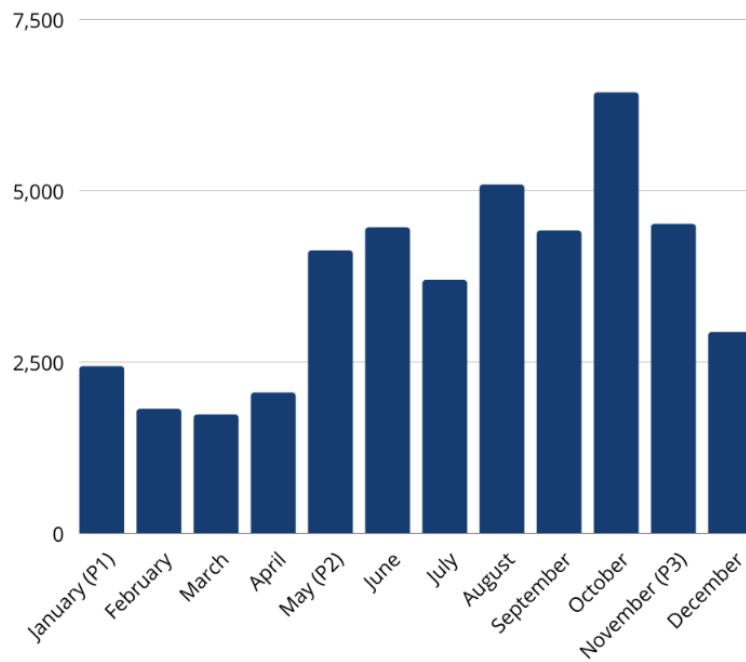


Figure 3: the monthly totals (measured in pounds) of food scraps diverted in the curbside composting program in 2022.

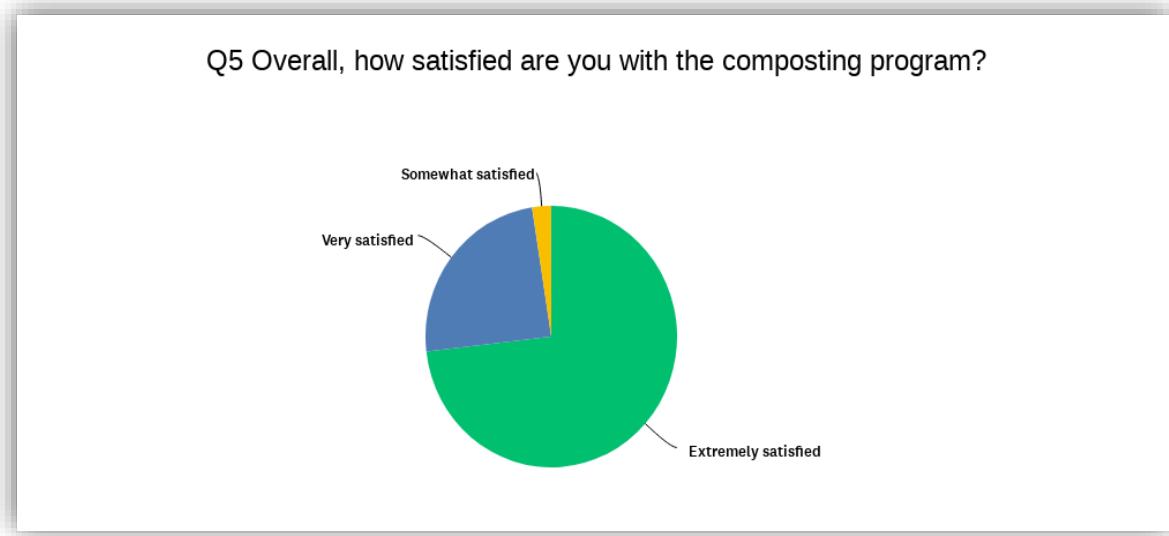


Figure 4: the results from a 2022 survey in the composting program. Nearly all participating households are satisfied.

As well, the weekly food scrap drop-off (Tuesdays and Thursdays, from 9am to 1pm) at the Alamo diverted over 2,300 pounds of food scraps. This additional service was established for the convenience of residents unable to participate in the composting pilot.

Access to backyard-composting also achieved an increase by once again hosting a twice-annual (online) composter and rain-barrel sale. Wood chips and pallets were available for pickup throughout the year at the Alamo.

In addition, a new collaboration with a local expert composter and the Troy Public Library Lansingburgh Branch was implemented. A series of four composting workshops in 2022 were hosted at the Troy Public Library's Lansingburgh branch. Two of these were directed toward school-age children and younger, and two designed for adults. There will be two additional workshops in 2023.

During spring of 2022, another notable change to the City's materials-handling processes included having City departments managing trunks, stumps, branches and brush. Previously, these items were hauled by a vendor and were to be processed outside of the City. There were significant costs to this practice and no benefit to the City. As a solution to this, the City consulted with a local arborist, who recommended utilizing *hügelkultur*, a centuries-old way to encourage expedited decomposition of these materials. Now, the materials are brought to the southern end of the "Hale Street Lot" to naturally break down. With this simple change in process, the materials will build soil, prevent erosion, and create cost-savings for the City.

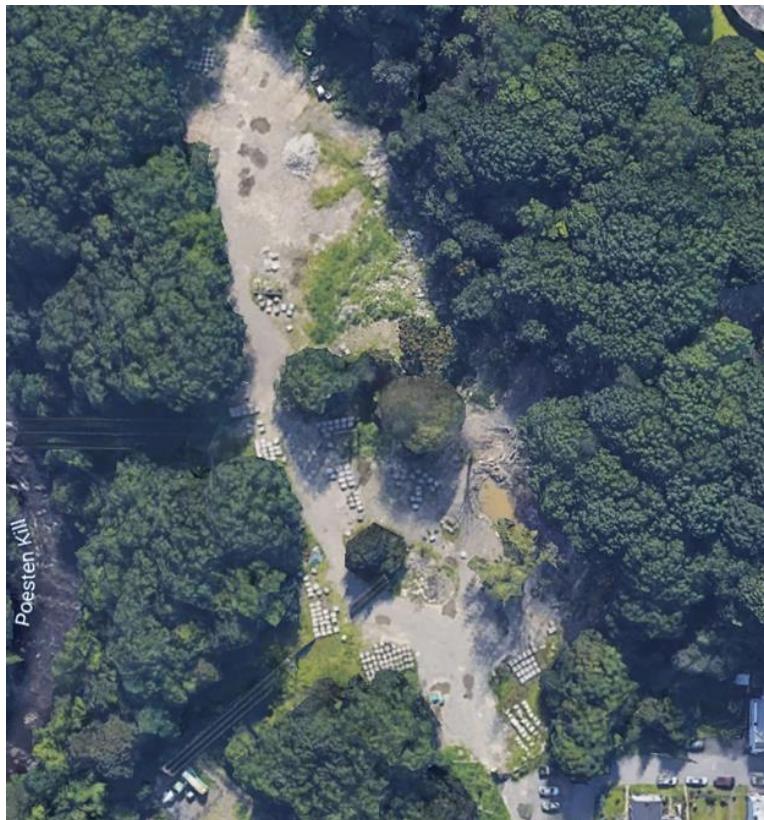


Figure 5: an aerial view of the Hale Street lot in Troy, New York.

Objective 3: Develop and plan a reuse center:

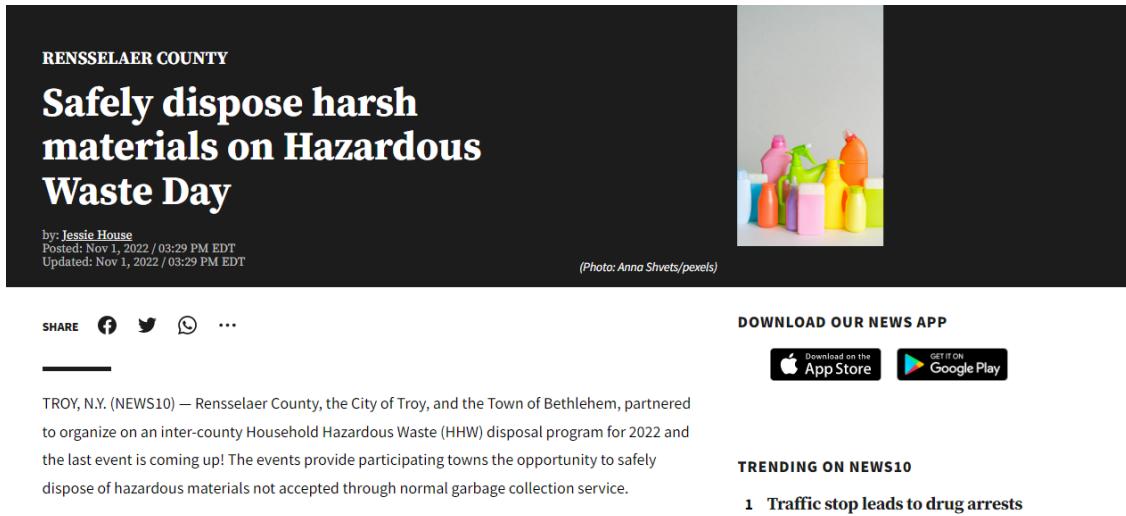
Reuse in Troy is currently managed by the various non-profits, thrift stores, community organizations and affiliated agencies throughout the City. This includes but is not limited to five secondhand clothing stores, a free textile donation store, and a furniture recovery/donation agency.

Over time, it is the hope of the City of Troy to provide opportunities for a non-profit or privately owned entity to open and run a reuse center and (separately) a Deconstruction Materials Warehouse. This objective will be explored in greater detail over the coming years as legislation and ordinances for deconstruction are developed.

Objective 4: Set clear waste collection procedures and increase collection participation:

Throughout 2022, the City continually increased the number of available residential recycling bins. Resident preference leans toward the larger (22gal) bins. The goal (as the City is able) is to purchase larger recycling barrels with lids and wheels.

The City collaborated with Rensselaer County and the Town of Bethlehem in 2022 to execute six hazardous waste collection events (Annex 3A and 3B). This allowed residents in municipalities throughout the county (who have not had the opportunity before) to participate. Smaller municipalities, including Schodack, Brunswick, and Poestenkill were all able to offer this service after difficulties executing events on their own due to expenses



The image is a screenshot of a news article from News10. The article is titled "Safely dispose harsh materials on Hazardous Waste Day" and is attributed to Jessie House. It was posted on Nov 1, 2022, at 03:29 PM EDT and updated on the same date at 03:29 PM EDT. The article features a photograph of several colorful plastic containers, likely hazardous waste items. Below the article, there are social sharing icons (Facebook, Twitter, etc.) and download links for the news app on the App Store and Google Play. A sidebar on the right shows a "TRENDING ON NEWS10" section with the headline "1 Traffic stop leads to drug arrests".

Figure 6: a local news station's story on the 2022 inter-municipal household hazardous waste events. involved in hosting.

During the 2022 calendar year, the City posted a request for proposals (RFP) for HHW (Household Hazardous Waste) vendors to respond to for a three-year contracting period. This updated RFP provided an opportunity for the City to modify the terms of the prior contract. The City added terminology requiring the vendor to allow material streams (within their scope of work) to be diverted from being serviced by the vendor if it was

determined to be more environmentally or fiscally beneficial to do so at no cost. The prior contract's piggyback clause for municipalities, counties and districts to utilize the RFP was also included.

A small-scale end-of-year cleanout for Rensselaer Polytechnic Institute (RPI) students was reintroduced in 2022. This program achieved limited success with bulky item diversion. However, four permanently sited textile bins (on-campus) diverted over 2,500 pounds between May and December of 2022. The City will be collaborating with RPI again in 2023 with a revitalized communications strategy to assist in diversion.

For the City's annual string lights recycling program (from mid-November to mid-January), the City successfully partnered with several local Girl Scouts troops (1165, 1435, and 1303). Improvements to the program included assigning a Girl Scout per barrel, a distribution list, and performance records for each location. Based on the results, the troops recommended replacing one of the less successful locations with an alternate site at the Rensselaer County Department of Motor Vehicles. The troops diverted over 760 pounds of string lights, and received over \$300 dollars in rebate funding from a local scrap metal recycling company. The proceeds were donated to the Troy High School food pantry. The Girl Scout Troop leaders hope to see the program expand to other troops throughout the area to increase accessibility and diversion.



Figure 7: a Girl Scout and police officer pose next to a decorated string lights recycling barrel.

Objective 5: Education and outreach:

The City's Recycling Specialist (hired in 2021) focuses on three primary areas: increased outreach and engagement initiatives; development of a cohesive plan for visibility and engagement; and creation of branding for diversion and recycling programs. Examples of successfully executed engagement materials include four specialty brochures, as shown in figure 8. As well, the Recycling Specialist managed the composting pilot, and continued

expansion of the City's communications outreach (via social media, "Recycling Matters" newsletter and "From the Ground Up" newsletter).

The ongoing efforts of the Coordinator and Specialist directly impact stakeholders' engagement, helping to shift resident mindsets from "cradle-to-grave" to "cradle-to-cradle" and resource recovery. The Coordinator and Specialist participated in community meetings throughout the year, allowing the opportunity to speak directly with residents, distribute recycling bins, and share information.



Figure 8: the front covers of the four City branded brochures: food scrap drop-off, textiles, household hazardous waste, and recycling/trash.



Figure 9: the first reusable bag design, was available in ten different colors.

During 2022, the City created four designs for reusable bags, and ordered almost 9,000 re-total from paper-bag rebate funds. These bags were offered to local pantries, non-profits, neighborhood groups and to residents (in-person, at Troy City Hall).

The Recycling Coordinator and Specialist participated in a statewide NYSAR³ (NYS Association of Reduction, Reuse and Recycling) Conference, pre-conference training day focused on diversity, equity, and inclusion. Both individuals are highly invested in the newly developed "MEDI+" Committee (membership, equity, diversity, inclusion, and young

professionals) and sit as chairs on these statewide committees. The Recycling Specialist has also revived the “Young Professionals” subcommittee with three other co-chairs.

The City coordinated the annual Earth Week city-wide cleanup, resulting in over 25 events hosted by residents and neighborhood groups. Cleanup organizers were invited to pick up the following education and outreach items to distribute at their event:

- Recycling bin stickers
- Food waste prevention magnets
- Deterra pharmaceutical disposal bags
- Clear trash bags
- Brown paper yard bags

Based on the achievements of the prior school year’s partnership with Troy School 2 (also known as Public School 2, or “PS2”), the City continued collaborating with an after-school STEM program, comprised of fourth and fifth grade students. The program was supported by a Rubin’s Fellow (private grant program) professor from Sage College, who co-developed lesson plans for these sessions with the City. The primary goal of this series was to share an understanding of and a responsibility for diverting textiles from the waste stream with students. The outcome at the end of the school year (June 2022) was the successful placement of a textile bin on school grounds. The STEAM students will continue monitoring the weight of textiles diverted and funds generated. 2022’s weight total for the school was over 3,000 pounds, which is an amazing outcome for the first six months of the program!

The City was awarded a small grant by Syracuse University’s Center for Sustainable Community Solutions (CSCS) to create textile diversion magnets that will be used in the 2023/2024 calendar year to promote the program.

Objective 6: Increase accurate data collection:

During the 2022 calendar year, the City continued to streamline the documentation and processing of waste-hauling permits, including more comprehensive language regarding exemptions. Improvements to the program include permit stickers for both permitted



Figure 10: the textile reuse and recycling program magnet design, describing what can and cannot go into the bins.

vehicles and exempted; contrasting sticker colors for ease of differentiation; increased notification of information requested, and edited, concise language. The plan for 2023 will include interagency cooperation (City of Troy Office of General Services, Troy Police Department and NYS Department of Transportation) to enforce hauler registrations. The additional reconciliation of permits received, outstanding and in-progress, has allowed the City to more proactively control the flow of waste-haulers utilizing the City's streets, roads and facilities.

As well, the development of a year-to-year comparison (Annex 2A) provides an ongoing opportunity for the City to see diversion program progress and challenges chronologically. An annual overview of solid waste disposal volume and pricing (Annex 2B) continues to further support the increased aggregation of data. All solid waste is landfilled and not sent to a waste-to-energy facility.

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

Throughout 2022, the Recycling Coordinator compiled a 'best practices' collection examples of:

- deconstruction permits,
- on-site checklists
- white papers
- research studies
- deconstruction pilots

These resources were used to inform recommendations for statewide legislative actions and standard procedures. In early 2022, the City committed to hosting a Deconstruction-related event while participating in a CROWD-facilitated zoom call. The City hosted its first statewide Deconstruction Summit in December. This event included 16 counties and 5 colleges from throughout NYS.

Looking ahead:

AGENDA

9:00 AM – 10:00 AM
REGISTRATION CHECK-IN
Location: Bush Memorial Center

10:00 AM – 10:25 AM
WELCOMING REMARKS
Speakers:

- [Patrick Madden, Mayor, City of Troy NY](#)
- [Barb Nelson, Executive Director, TAP Inc](#)
- [Christopher Ames, President, Russell Sage College](#)
- [Jake Ashby, NYS Assemblymember](#)
- [Dr. Anna Kelles, NYS Assemblymember](#)
- [David Bennink, Director, Building Deconstruction Institute](#)

10:25 AM - 10:40 AM
SUMMIT OVERVIEW

10:40 AM – 10:55 AM
BREAK WITH LIGHT REFRESHMENTS
including stretching with [Cody Bloomfield](#).

10:55 AM – 12:30 PM
SMALL WORK GROUPS: PART I
Small work groups will begin discussing topics provided to determine highest priorities for statewide legislation, and determine which are best handled locally.

12:30 PM – 1:15 PM
LUNCH

TROY DECONSTRUCTION SUMMIT 2022

As a City, Troy has been part of both implicit and explicit discussions concerning best-practices to remain nimble, responsive, and agile in this ever-changing environment. Regardless of the challenges or complications, difficulties or disruptions, the City is committed to effective resource management, encouraging biodiversity conservation and mitigating climate change to the best of its ability.

The City of Troy, NY values its relationship with the NYSDEC and the residents of this municipality and looks forward to collaborating with both cohorts in continuing to work toward a cleaner, greener Troy.

Figure 11: the agenda from the Deconstruction Summit.

Annex 1: the Comprehensive Recycling Analysis timeline, with progress up to end of 2022 (continued on next page).

City of Troy Solid Waste Management Plan (2019-2028) - 10 Year Implementation Schedule						
Objectives and associated tasks	Responsible Party	Projected year	2019	2020	2021	2022
ReUse Programs						
ReUse Center						
Household Donation (private/non-profit) Options		2026				Ongoing
Research Center/Partnership Plan		< 6.3m pounds diverted 10y	2024			Report
Plan Update		< \$5M generated in 10y	2025			Report
Affiliate with existing partners and agencies			2025			In process
Recycling Programs						
Monitor National Recycling Situation						Ongoing
Recycling Contract		2021			renewed	
Annual Recycling Update		annually	Update	Update	Update	Update
Textile Recycling						
partner with K-12 schools to develop student liaisons		2021				
create pilot program w/colleges and schools for textile recycling expansion		2021			In progress	Pilot with PS2
Household Hazardous Waste						
develop comprehensive RFP for HHW bidding process		2019	complete	2022 for contract 2023-2025		
set up RFP review board		2019	complete			
Increase Annual Events		2019	complete	collaborated intermunicipally	continued collaboration	
2 events per year		2019	complete			
4 events per year		2021		Inter-municipal partnership		
Recycling/drop-off Center						
PILOT - Open Alamo April - Oct.		2021		open Thursdays	open Tues/Thurs	
Update on Recycling Center		2024	Report			
Alamo Site Buy or Lease		2023		Process started	all documents issued	
Open Drop Center (Year Round)		2021		Completed		
Education & Outreach						
Develop systems/strategies						
prioritize tasks and objectives		2020				Ongoing
Recycling Coordinator		2018				Ongoing
"Recycling Matters" (monthly online newsletter)		2019				Ongoing
Update forms (bulk pickup, annual solid waste fee) to reflect current info		2019		Completed		
Increased Event Offerings (other types of diversion events)		2023		pumpkin smash		
partner with schools/colleges to brainstorm opportunities		2022		Ongoing		
Improved visibility of shared information		2021				Ongoing
All portions of DPW pages of city website updated/linked to ReCollect		2021		ReCollect completed	In process	
Website maps and links also cross-linked to ReCollect		2021		completed	provements and upgrade	
Develop phone-tree for DPW/DGS to reach correct personnel		2020	complete		Update	
Partner with RPI, Sage and New Visions to create curricula and databases		2021	in process	completed	added curricula	
Utilize Rubin Grant to develop community outreach toolkit		2020-2021	complete		received additional fund	
Outreach to public, private and charter schools to provide access to materials		2024			In process	
Do waste audit for presentation to City Council		2021		Started		
Do community-based waste audits		2021		Started	In process	
Design and order bin stickers for recycling bins		2020	complete			
Host "online store" for composter and rain-barrel orders		2020				
Design and order "food scrap" fridge magnets		2020	complete		complete	
Create social media account(s)		2021		complete		
Design and order reusable bags (5-cent bag tax revenues)		2020	complete	complete	complete	Quarterly designs/ordered
Hauler Licensing						
Research other county/municipal permit applications						
Hauler Permit developed and legislation approved		2019	Complete			
Notification to Haulers		2020	complete			
Permit stickers designed and ordered		2020	complete	Standard procedure created		
Permit requests from haulers		2020	complete	June, annually		
Second request permit application completion		2020-2021	complete			
Revise permit to reflect fee-uniformity		2021	complete		September, annually	
Notify haulers of approval/send permit sticker		2021	complete			
Quarterly reports on hauler statuses (in violation or no)		N/A			As applications are approved	
Annual Notice/Data Requests		annually				Ongoing
Organics Recovery						
Food Waste/ Source Separated Organics						
Pilot Compost program with other municipalities/private hauler		2021				Ongoing
Stumps re-located from Alamo to alternate site		2021				complete
Fully implement compost program (citywide)		2023/2024				ad
Partner with food-gleaning agencies to divert edible food		2026				
Partner with private or non-profit entity to develop community food-service program						
Yard Waste		2027				
Create separate bays for storage at Alamo		2020	complete			
Develop regular schedule for maintenance of areas		2021				
Separate out leaves (no charge to city from vendor to haul out)		2020	complete			
Screen Material		2019				Ongoing
Open Alamo for Private Yard Waste drop-off and mulch pickup		2021			Pilot	
Registered Mulch/Re-use/Transfer Facility		2021				
Permits for all functions of Alamo from DEC		2023	Research		Regional Group	
Develop Regional Food Waste Group						
Incentive Based Pricing						
Solid Waste Management Fees						Ongoing
Determine area for "fair share" business/multi-unit program		2019	Research	complete		
Set pricing for fair-share and send out notification/information		2019	complete			
Hold community meetings to inform property-owners for Q and A		2019-2020	complete			
Roll out fair-share program		2020	complete			
Hybrid PAYT						
Research types and applicability		2019-2020	research	research		
Implement Hybrid PAYT		non-viable			VETOED BY CITY COUNCIL	

		Evaluation							
			N/A						
	<u>Bulk Pricing</u>								
	Implement Clear Bulk Waste Pricing		2018	complete					
	Furniture Donation		2024						Ongoing
	Report		when in progress		Report				
Waste Disposal									
	<u>Trash Disposal</u>								Ongoing
	New Equipment Investment		ongoing						
	Order SSR signs for trucks to properly identify when MSW trucks re-deployed		2021						
	Provide SSR receptacles with lids for residents		TBD						
	Provide residents with larger SSR bins (16g and 22g available)		2020						
	<u>Bulk Disposal</u>		ongoing						Ongoing
	New Equipment Investment		2021						
	Integrate into specific pickup day (route-based) structure		2021	Complete					
	Access to information (pickup maps, etc.)								
Enforcement Programs									
	<u>Litter Patrol Officer</u>		2019	complete					
	Add 2nd LPO		2019	complete			add 3rd LPO		
	Provide in-house work-space for LPO's at City Hall		2020		complete				
	<u>Sanitation Workers</u>								
	Utilize contamination stickers and hang-tags for doors		2019						
	<u>Account Clerk</u>								
	Provide billing and invoicing structure for violations		2019		complete		added 2nd account clerk		
	<u>Address Visibility</u>								
	Research Cost of Implementation		2025						
	Implement across City		2026						
	<u>Solid Waste Advisory Board (after 2019-2028 plan approval)</u>		2019-2020	Complete					
	Assist in New Plan (2029 Publication)		2027-2028	complete					
	<u>Assist Recycling Coordinator with annual report to Mayor</u>		annually						
Data Collection & Evaluation									
	<u>Collect Missing Data</u>								
	Update Plan with New Data		2021				Ongoing (include in first year a		
	Decide on and commit to platform as clearinghouse for data		2020		complete				
	Create accurate databases of various informational resources		2021			complete			
	GIS mapping (routes, violations, recycling bins, etc.)		2021			complete			
	Create and maintain monthly MSW and SSR data from County Waste		ongoing				Ongoing		
	Develop large-scale generator letter		2020-2021		complete				
	Deploy generator letter with response requirement		2021			complete			
	Track quantities of materials diverted from waste stream		ongoing				Ongoing		
	<u>Regional Approach</u>								
	Research Possible Regional Options		2024						
	Join or Create a Planning Unit		2025						
Flow Control									
	<u>Maintain Recycling Mandates</u>		N/A				Ongoing		
	Private Sector Opportunities		N/A						
	RFP for Services		N/A						
	<u>RFP for Solid Waste Services for Comparison</u>		N/A						
	Explore ReUse Partnership Opportunities		N/A						
C&D Demolition, Reuse & Recovery									
	<u>Create opportunities to develop Deconstruction protocol for Troy, NY</u>		2023				hosted 1st statewide summ		
	Create a Deconstruction Permit		2024						
	<u>City Deconstruction RFP</u>								
	Create balance of deconstruction documentation								
	Online recycling Clearinghouse		2025	statewide?					
	<u>Homeowner Education</u>		2025						
	<u>Salvage Yard (deconstruction materials)</u>		2027						
	Assist in creation of non-profit-private opportunity		2026						
	<u>Recycling Clearinghouse</u>		2026				Ongoing		
	Online Database of Recycling and Reuse services		statewide?						
Thermal Treatment Technologies									
	<u>No Plans</u>		N/A						
Waste Reduction Programs									
	<u>Green Procurement</u>								
	NYC DEC Green Procurement Law-current		statewide						

Annex 2A:

DIVERTED MATERIALS SUMMARY (year-to-year)

Commodity stream	Year	Quantity diverted	Year	Quantity diverted	Year	Quantity diverted	Year	Quantity diverted	Year	Quantity diverted	Year	Quantity diverted
Single-stream recycling	2019	1,174 T	2020	1,283 T	2021	1,325.65 T	2022	1,193.58 T	2023		2024	
Scrap metals		34.9 T		25.75 T		6.75 T		9.4 T				
Textiles		Unkn.		5.03 T		19 T		21.3 T				
Yard materials		1,267 T		273 T		1,102.5 T		326 T				
Brush, trunks, stumps		Incl. abv.		415.2 T		244 T		324 T				
Food scrap		N/A		N/A		.32 T		22 T				
Tires		43 T		22.5 T		28 T		20.5 T				
Biosolids		50 T		4,590 T		2,680 T		1,396 T				
Electronic waste		9 T		8.5 T		32.4 T		29.2 T				
Asphalt/milling		100 T		N/A		18,962.35 T		97,206.6 T				
Sweeps		324.3 T		N/A		237.88 T		102.4 T				
TOTAL ANNUAL DIVERSION		3,002.2 T		6,609.98 T		24,638.85 T		100,651 T				
AGGREGATED DIVERSION												

*Although some items have processing fees associated, there are significant avoided costs with each of these commodity streams being diverted

Additional information:

- 1) Textile total includes new bins placed @ PS2 and RPI for which they collect [revenue](#)
- 2) Food scrap includes both residential pickup and materials dropped off @ bins @ [Alamo](#)
- 3) E-waste includes bulk pickup as well as electronics recycling day [collections](#)
- 4) Asphalt was milled by contractors, not by the [City](#)
- 5) Brush, stumps and trunks now stay within City limits to prevent erosion and build [soil](#)

Annex 2B:

Solid Waste Disposal

Year/Q	Month	Total MSW \$	8160 Residential	8170 Municipal	8175 Bulk	8175 roll-offs \$	Roll-off weights	MSW WEIGHT (T)
2022	January	62,593	59,345	1,322	1,926	347	5	951
	February	57,628	55,591	1,186	851	528	8	842
	March	73,190	68,455	1,988	2,747	1,732	26	1,109
1st Q		193,411	183,391	4,496	5,524	2,607	39	2,902
	April	82,501	71,639	2,223	8,639	726	11	1,250
	May	82,323	74,781	2,903	4,639	811	12	1,248
	June	79,669	71,279	2,616	5,756	824	13	1,207
2nd Q		244,493	217,699	7,742	19,034	2,361	36	3,705
	July	68,516	63,988	2,044	2,484	1,359	21	1,038
	August	80,251	72,878	2,577	4,796	650	10	1,216
	September	78,626	71,436	2,767	4,423	858	13	1,191.00
3rd Q		227,393	208,302	7,388	11,703	2,867	44	3,445
	October	72,370	66,876	2,352	3,142	858	13	1,097
	November	79,267	74,562	2,104	2,601	1,033	16	1,201
	December	70,207	65,623	1,820	2,764	752	11.4	1,064
4th Q		221,844	207,061	4,456	8,507	2,643	40.4	3362
	ANNUAL (\$65.99 PER TON)	887,141	816,453	24,082	44,768	10,478	159.4	13,414

Annex 3A:

HHW

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):	2022

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)	013926439FLE	06/11/22	93991	07/22/22	\$18,852.12	\$660.00	\$17,692.12	
MXI, Inc. HHW Vendor (Rensselaer County/Schodack hosted event)	0139265532FLE	07/30/22	264536	08/26/22	\$19,622.00	\$960.00	\$18,662.00	
MXI, Inc. HHW Vendor (Rensselaer County/Brunswick hosted event)	013926617FLE	08/27/22	265637	09/30/22	\$15,269.50	\$1,060.00	\$14,209.50	
MXI, Inc. HHW Vendor (Bethlehem hosted event)	013926684FLE	10/01/22	90508	11/04/22	\$16,489.32	\$400.00	\$16,089.12	
MXI, Inc. HHW Vendor (Troy hosted event)	017101749FLE	10/29/22	96207	12/16/22	\$13,394.37	\$1,520.00	\$11,874.37	
MXI, Inc. HHW Vendor (Rensselaer County/Poestenkill hosted event)	017101777FLE	11/19/22	288615	01/06/23	\$16,478.22	\$960.00	\$15,518.22	
Subtotal					\$100,105.53		\$94,045.33	
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					\$5,560.00			
Funds received directly from participants, or other assistance (additional ineligible expenses)	Resident checks from non-participating municipalities (PII information)				\$220.00			
All ineligible expenses					\$5,780.00			
State grant funds (50% of eligible amount for contractual expenses)					N/A	\$47,022.67		
Local match funds (50% of eligible amount for contractual expenses)					N/A	\$47,022.66		
Total:					\$5,780.00	\$94,045.33		

ANNEX 3B:



HOUSEHOLD HAZARDOUS WASTE COLLECTION EVENT ANNUAL REPORT

Submit the Annual Report no later than March 1, 2022.

This annual report is for the year of operation from January 01, 2021 to December 31, 2021

SECTION 1 – EVENT INFORMATION

SPONSOR INFORMATION			
SPONSOR NAME: City of Troy, Rensselaer County, Town of Bethlehem			
SPONSOR ADDRESS: 433 River Street, Suite #5001	SPONSOR CITY: Troy	STATE: NY	ZIP CODE: 12180
SPONSOR CONTACT: Renee Panetta	SPONSOR CONTACT PHONE NUMBER: 518-276-7171	SPONSOR CONTACT FAX NUMBER: n/a	
COSPONSOR: Ann Shaughnessy	COSPONSOR PHONE NUMBER: 518-270-2888	COSPONSOR FAX NUMBER: n/a	
CONTRACTOR INFORMATION			
CONTRACTOR NAME: Maumee Express Inc. &/Or Mxi Environmental Services, LLC			
CONTRACTOR ADDRESS: 26319 Old Trail Road	CONTRACTOR CITY: Abingdon	STATE: VA	ZIP CODE: 24210
CONTRACTOR CONTACT: Marc Kodrowski	CONTRACTOR CONTACT PHONE NUMBER: (732) 328-0320	CONTRACTOR CONTACT FAX NUMBER: n/a	
EVENT LOCATION INFORMATION (Attach additional sheets if necessary)			
LOCATION OF COLLECTION: Troy Resource Management Facility	DATE: 6/11/22		
TOWN: (City of) Troy	COUNTY: Rensselaer		
LOCATION OF COLLECTION: Schodack Highway Dept	DATE: 7/30/22		
TOWN: (County of) Rensselaer	COUNTY: Rensselaer		
LOCATION OF COLLECTION: Brunswick Highway Dept	DATE: 8/27/22		
TOWN: (County of) Rensselaer	COUNTY: Rensselaer		
LOCATION OF COLLECTION: Bethlehem Town Highway Garage	DATE: 10/01/22		
TOWN: Bethlehem	COUNTY: Albany		
LOCATION OF COLLECTION: Troy Resource Management Facility	DATE: 10/29/22		
TOWN: (City of) Troy	COUNTY: Rensselaer		
LOCATION OF COLLECTION: Poestenkill Waste Management	DATE: 11/19/22		
TOWN: (County of) Rensselaer	COUNTY: Rensselaer		

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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:	\$100,105.53
Publicity and educational costs:	\$4,656.58
Other costs:	
Total cost:	\$104,762.11
*Comments: This report is for an inter-municipal program of events held in 2022	
with the City of Troy, Rens: County, and Town of Bethlehem: We did not accept e-waste.	

*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	440	Gallons
Hazardous Paint	16,766	Gallons
Automotive Batteries	770	Pounds
Hazardous Household Batteries	636.36	Pounds
Pesticides (Solids)	5000	Pounds
Pesticides (Liquids)	2420	Gallons
Mercury Containing Devices	0	Pounds
Bulk Mercury	208.25	Pounds
Fluorescent Bulbs	707.55	Pounds
CRT TVs/Monitors	0	Pounds
Non-CRT TVs/Monitors	0	Pounds
Other Electronics	0	Pounds
Other HHW (Solids)	7,535	Pounds
Other HHW (Liquids)	14,050	Gallons
Miscellaneous Solid Waste (Solids)	0	Pounds
Miscellaneous Solid Waste (Liquids)	0	Gallons
Other (specify)		
Total Disposed For Year	14,857.16	Pounds
Total Disposed For Year	33,676.00	Gallons

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

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